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User Manual
ScanAvenger Wireless / Bluetooth / USB
SA9300 Barcode Scanner

Disclaimer

Please read through the manual carefully before using the product and operate it according to the manual. It is advised to keep this manual for future reference.

Do not disassemble the device or remove the seal label from the device as this will void the warranty.

Regarding the product modification and update, MG Brand LLC reserves the right to make changes to software or product to improve reliability, function, or design at any time without notice. The information contained in this manual is subject to change without prior notice.

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Safety and Compliance

Read all safety instructions before using the scanner. Failure to follow these instructions may result in damage to the product, data loss, or personal injury.

Do Not Disassemble

Do not open, modify, or repair the scanner or accessories yourself. Unauthorized disassembly may cause damage and will void the warranty.

Power and Charging

Use only approved USB cables and chargers. Do not charge or use the scanner if the housing, cable, or connector is damaged, or if the device shows signs of overheating, swelling, or leakage.

Light and Eye Safety

Do not look directly into the light source or point it at anyone's eyes. Avoid using the scanner near individuals sensitive to bright or flashing lights.

Environment

Use the scanner only within the specified temperature, humidity, and environmental limits.

Children

This product is not a toy. Keep the scanner, battery, and small accessories out of reach of children.

Battery and Charging Guidelines

Use a standard 5V / 1A USB charger or a computer USB port to charge the scanner. Avoid using fast chargers or power adapters with higher output (such as 5V / 2A or 9V / 2A), as they may damage the internal power protection circuit over time.

How to check your charger:

1. Find the “Output” line on the charger label.
2. If it says 5V 1A, it is safe to use.
3. If it lists a higher output (for example 5V 2A or any 9V mode), use a lower-power charger or charge from a computer USB port instead.

Warning Sound

If data transmission encounters an issue, the scanner will emit four consecutive alarm sounds. In such cases, please verify the integrity of the connection to ensure proper functionality.

Reading Tips

1. To achieve optimal scanning results, aim the scanner’s collimator beam at the center of the barcode. The scanner can read barcodes from any direction.
2. Hold the scanner in front of the barcode and press the button to align the collimator beam with the barcode's center.
3. The distance between the scanner and the barcode affects the size of the aiming beam:
    a Small barcodes: Hold the scanner closer to the barcode.
    b Large barcodes: Hold the scanner farther away for easier scanning.
4. For highly reflective barcodes (e.g., coated surfaces), adjust the scanner's angle to reduce glare and improve scanning accuracy.

Description of LED & Buzzer State

LED Light	Description
Green LED	Will flash one time when scanning
Blue LED	Successful wireless connection
Red LED	Charging
Green LED flashing rapidly	Pairing mode

Buzzer Prompt Sound

Buzzer	Description
A long sound	Power ON/OFF
A short sound (low frequency)	Scan common barcode, or paired, wireless connection success
3 short sounds (low frequency)	Wireless transmission failure
5 short sounds (low frequency) and stop scanning	Battery depleted. Rechange before use.
2 short sounds (low frequency)	Wireless pairing disconnected
2 short sounds (high frequency)	Setup code is not working

Functional Configuration Instructions and Examples

Before configuring prefixes, suffixes, or modifying the Code ID, ensure that the scanner's language setting supports the characters you intend to add. If you're unsure which keyboard layouts support the desired character(s), scan the barcode for the *International Keyboard* setting.

For a complete list of language settings, refer to the Language Settings Table.

Note: Enabling the International Keyboard may slightly reduce transmission speed.

Configuring Settings with Basic and Special codes

There are two methods for adding, modifying, and removing a prefix or a suffix on your scanner:

1. **Basic Configuration Barcodes** (also referred to as Basic Codes)
2. **Special Configuration Barcodes** (also referred to as Special Codes)

These methods operate independently. If you configure a prefix or suffix using one method, you must use the same method to modify or remove it. Switching between methods is not possible. However, you can configure prefixes and suffixes with two different methods at the same time.

- **Basic Configuration Barcodes** allow configuration for specific barcode types and are supported by all software versions
- **Special Configuration Barcodes** offer a faster and simpler setup, requiring fewer scans. They also enable more advanced configurations, which are explained here: "Advance Configurations for Prefixes and Suffixes"

Prefixes and Suffixes with Basic Configuration Barcodes

How to Create a Prefix

Determine What this Prefix Should Apply to:

1. If you want to apply it for all barcode types, follow these instructions: Prefix Setup for All Codes
2. If you want to apply it for only a specific barcode type, follow these instructions: Prefix Setup for Specific Barcodes

Note: If you want to apply it to several barcode types, but not all, you will need to set it for each one independently.

Prefix Setup for All Codes

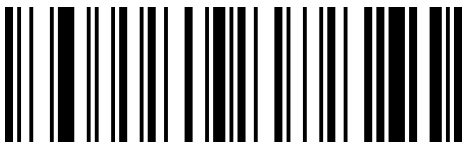
Step 1: Determine the Decimal Values for the Prefix Characters

1. Identify the characters you wish to use as a prefix (e.g., “X” or “ABC”)
2. Refer to the ASCII Visible Characters Table in the Appendix for the Decimal values of the characters you want to use
    a Example: “X” = 88, “ABC” = 656667

Note: You can add up to 10 characters for the custom prefix.

Step 2: Program the Prefix

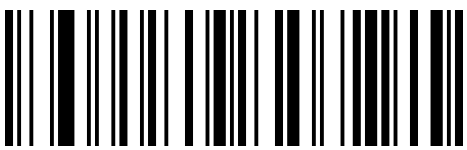
1. Scan the configuration barcode “Enter/Exit Data Code Setting Mode” to allow the scanner to add a prefix
    a. The scanner should emit three beeps to confirm entry



BeReGe

Enter/Exit Data Code Setting Mode

2. Scan the configuration barcode “Set Custom Prefix” to enter the configuration mode



BeReTd

Set Custom Prefix

3. Sequentially scan the barcodes (from the Numeric Entry Codes Appendix) for Zero + the Decimal value(s) for each character in your prefix
    a. e.g., X=088 and ABC=065066067

Note: If you need to add multiple characters to the prefix (e.g., ABC, 123), you must scan the Set Custom Prefix barcode before entering each group of three characters.

For example:

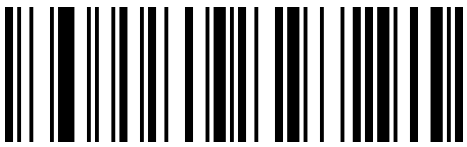
A. Scan Set Custom Prefix to begin
B. Scan the digits 0, 6, and 5
C. Scan Set Custom Prefix again
D. Scan the digits 0, 6, and 6
E. Repeat this process (scanning Set Custom Prefix followed by the three characters each time) until the entire prefix, such as “ABC” or “123” is entered

4. Scan the configuration barcode named “Enter/Exit Data Code Setting Mode” to complete the prefix setup

BeReGe
Enter/Exit Data Code Setting Mode

Deleting Data After the Process

Scan the “Clear Custom Prefix” barcode to clear all custom prefix characters.



BeReSd
Clear Custom Prefix

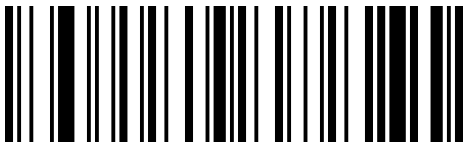
Example - Applying the Prefix "X" to All Barcode Types

Below is an example illustrating how to configure a prefix of "X" for all barcode types. This overview and example are meant to demonstrate the general process. For a full list of supported barcodes and values, please see the relevant appendices.

To avoid scanning the wrong code by mistake, cover nearby barcodes while scanning the intended one.

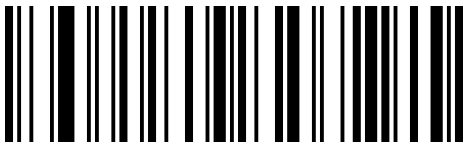
Program Sequence:

1. Scan "Enter/Exit Data Code Setting Mode" (Scanner will beep three times, indicating configuration mode)



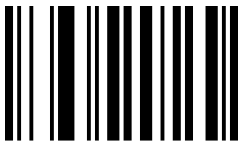
BeReGe
Enter/Exit Data Code Setting Mode

2. Scan "Set Custom Prefix"



BeReTd
Set Custom Prefix

3. Scan the barcodes corresponding to 0 + 8 and 8 (for "X"=88)



0

8

8

4. Scan "Enter/Exit Data Code Setting Mode" to finalize the configuration (Scanner will beep three times, indicating it exited configuration mode)

BeReGe
Enter/Exit Data Code Setting Mode

NOTE: This overview and example are meant to demonstrate the general process. For a full list of barcodes and values, please see the ASCII Visible Characters Table and the Data and Edit Barcodes Appendix.

Prefix Setup for Specific Barcodes

Step 1: Determine the Target Barcode Type

Identify the code for the barcode type you want to target for this configuration. You can find the list with all the codes for the barcode types available for this feature in the Per-Symbology Prefix/Suffix Settings Appendix.

Step 2: Determine the Decimal Values for the Prefix Characters

1. Identify the character you wish to use as a prefix (e.g., "X" or "A")
2. Refer to the ASCII Visible Characters Table in the Appendix for the Decimal values of the character you want to use
    a. Example: "X" = 88, "A" = 65

Note: You can add up to 1 character for a barcode type specific custom prefix.

Step 3: Program the Prefix

1. Scan the configuration barcode "Enter/Exit Data Code Setting Mode" to allow the scanner to add a prefix
    a. The scanner should emit three beeps to confirm entry

BeReGe
Enter/Exit Data Code Setting Mode

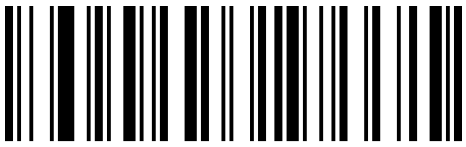
2. Scan the barcode type's setting code found on the previous "**Determine the Target Barcode Type**" step

3. Sequentially scan the barcodes (from the Numeric Entry Codes Appendix) for Zero + the Decimal value(s) for the character in your prefix
    a. e.g., X=088 and A=065

4. Scan the configuration barcode named "Enter/Exit Data Code Setting Mode" to complete the prefix setup

BeReGe
Enter/Exit Data Code Setting Mode

If this configuration was previously set as a suffix, and you want to switch to a prefix configuration, scan the configuration code “Appear as Prefix” (this is the default)



QaZcSa

Appear as Prefix**

Deleting Data After the Process

Scan the “Clear Prefix/Suffix of Specific Barcode Types” barcode to clear all custom prefix characters.

BeReQd

Clear Prefix/Suffix of Specific Barcode Types

In case the above does not work, scan the “Clear All Prefixes/Suffixes” code.

BeReSb

Clear All Prefixes/Suffixes

Example - Applying the Prefix "X" to QR Codes

Below is an example illustrating how to configure a prefix of "X" for QR codes. This overview and example are meant to demonstrate the general process. For a full list of supported barcodes and values, please see the relevant appendices.

To avoid scanning the wrong code by mistake, cover nearby barcodes while scanning the intended one.

Program Sequence:

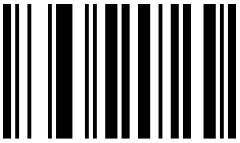
1. Scan "Enter/Exit Data Code Setting Mode" (Scanner will beep three times, indicating configuration mode)

BeReGe
Enter/Exit Data Code Setting Mode

2. Scan the QR code barcode type setting code

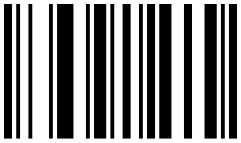
BeZdLa
QR Code Prefix/Suffix

3. Scan the barcodes corresponding to 0 plus 8 and 8 (for "X"=88)



0

8



8

4. Scan "Enter/Exit Data Code Setting Mode" to finalize the configuration (Scanner will beep three times, indicating it exited configuration mode)

BeReGe
Enter/Exit Data Code Setting Mode

NOTE: This overview and example are meant to demonstrate the general process. For a full list of barcodes and values, please see the Per-Symbology Prefix/Suffix Settings Appendix, the ASCII Visible Characters Table, and the Data and Edit Barcodes Appendix.

How to Create a Suffix

Determine What this Suffix Should Apply to:

1. If you want to apply it for all barcode types, follow these instructions: Suffix Setup for All Codes
2. If you want to apply it for only a specific barcode type, follow these instructions: Suffix Setup for Specific Barcodes

Note: If you want to apply it to several barcode types, but not all, you will need to set it for each one independently.

Suffix Setup for All Codes

Step 1: Determine the Decimal Values for the Suffix Characters

1. Identify the characters you wish to use as a Suffix (e.g., "X" or "ABC")
2. Refer to the ASCII Visible Characters Table in the Appendix for the Decimal values of the characters you want to use
    a Example: "X" = 88, "ABC" = 656667

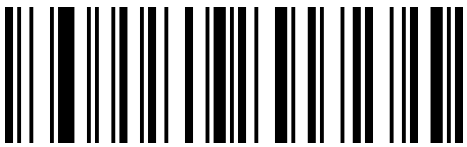
Note: You can add up to 10 characters for the custom suffix.

Step 2: Program the Suffix

1. Scan the configuration barcode "Enter/Exit Data Code Setting Mode" to allow the scanner to add a suffix
    a The scanner should emit three beeps to confirm entry

BeReGe
Enter/Exit Data Code Setting Mode

2. Scan the configuration barcode "Set Custom Suffix" to enter the configuration mode



BeReWd
Set Custom Suffix

3. Sequentially scan the barcodes (from the Numeric Entry Codes Appendix) for Zero + the Decimal value(s) for each character in your suffix
    a e.g., X=088 and ABC=065066067

Note: If you need to add multiple characters to the suffix (e.g., ABC, 123), you must scan the Set Custom Suffix barcode before entering each group of three characters.

For example:

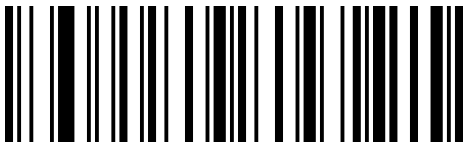
A. Scan Set Custom Suffix to begin
B. Scan the digits 0, 6, and 5
C. Scan Set Custom Suffix again
D. Scan the digits 0, 6, and 6
E. Repeat this process (scanning Set Custom Suffix followed by the three characters each time) until the entire suffix, such as “ABC” or “123” is entered

4. Scan the configuration barcode named “Enter/Exit Data Code Setting Mode” to complete the suffix setup

BeReGe
Enter/Exit Data Code Setting Mode

Deleting Data After the Process

Scan the “Clear Custom Suffix” barcode to clear all custom suffix characters.



BeReRd
Clear Custom Suffix

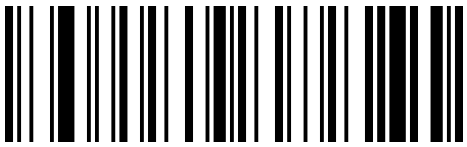
Example - Applying the Suffix "X" to All Barcode Types

Below is an example illustrating how to configure a suffix of "X" for all barcode types. This overview and example are meant to demonstrate the general process. For a full list of supported barcodes and values, please see the relevant appendices.

To avoid scanning the wrong code by mistake, cover nearby barcodes while scanning the intended one.

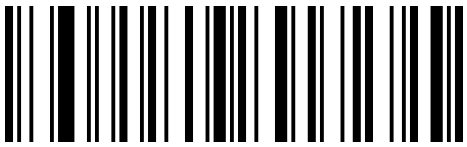
Program Sequence:

1. Scan "Enter/Exit Data Code Setting Mode" (Scanner will beep three times, indicating configuration mode)



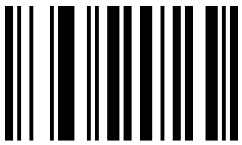
BeReGe
Enter/Exit Data Code Setting Mode

2. Scan "Set Custom Suffix"



BeReWd
Set Custom Suffix

3. Scan the barcodes corresponding to 0 + 8 and 8 (for "X"=88)



0

8

8

4. Scan "Enter/Exit Data Code Setting Mode" to finalize the configuration (Scanner will beep three times, indicating it exited configuration mode)

BeReGe
Enter/Exit Data Code Setting Mode

NOTE: This overview and example are meant to demonstrate the general process. For a full list of barcodes and values please see the ASCII Visible Characters Table and the Data and Edit Barcode Appendix.

Suffix Setup for Specific Barcodes

Step 1: Determine the Target Barcode Type

Identify the code for the barcode type you want to target for this configuration. You can find the list with all the codes for the barcode types available for this feature in the Per-Symbology Prefix/Suffix Settings Appendix.

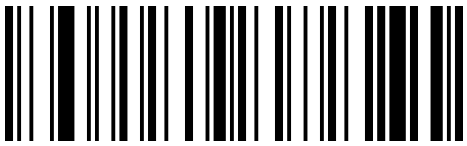
Step 2: Determine the Decimal Values for the Suffix Characters

1. Identify the character you wish to use as a suffix (e.g., "X" or "A")
2. Refer to the ASCII Visible Characters Table in the Appendix for the Decimal values of the character you want to use
    a. Example: "X" = 88, "A" = 65

Note: You can add up to 1 character for a barcode type specific custom suffix.

Step 3: Program the Suffix

1. Scan the configuration barcode "Enter/Exit Data Code Setting Mode" to allow the scanner to add a suffix
    a. The scanner should emit three beeps to confirm entry

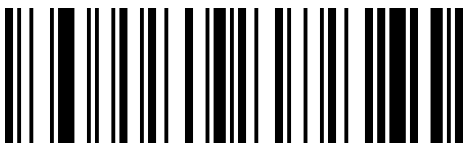


BeReGe
Enter/Exit Data Code Setting Mode

2. Scan the barcode type's setting code found on the previous "**Determine the Target Barcode Type**" step

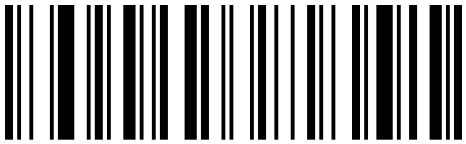
3. Sequentially scan the barcodes (from the Numeric Entry Codes Appendix) for Zero + the Decimal value(s) for the character in your suffix
    a. e.g., X=088 and A=065

4. Scan the configuration barcode named "Enter/Exit Data Code Setting Mode" to complete the prefix setup.



BeReGe
Enter/Exit Data Code Setting Mode

5. Scan the configuration code “Appear as Suffix” (the default is “Appear as Prefix”)



QaZcCb

Appear as Suffix

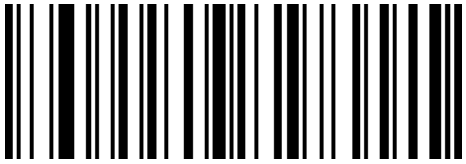
Deleting Data After the Process

Scan the “Clear Prefix/Suffix of Specific Barcode Types” barcode to clear all custom suffix characters.

BeReQd

Clear Prefix/Suffix of Specific Barcode Types

In case the above does not work, scan the “Clear All Prefixes/Suffixes” code.



BeReSb

Clear All Prefixes/Suffixes

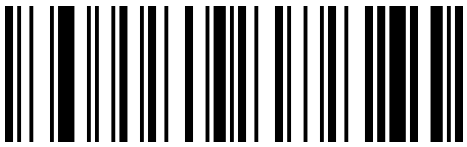
Example - Applying the Suffix "X" to QR Codes

Below is an example illustrating how to configure a suffix of "X" for QR codes. This overview and example are meant to demonstrate the general process. For a full list of supported barcodes and values, please see the relevant appendices.

To avoid scanning the wrong code by mistake, cover nearby barcodes while scanning the intended one.

Program Sequence:

1. Scan "Enter/Exit Data Code Setting Mode" (Scanner will beep three times, indicating configuration mode)



BeReGe
Enter/Exit Data Code Setting Mode

2. Scan the QR code barcode type setting code

BeZdLa
QR Code Prefix/Suffix

3. Scan the barcodes corresponding to 0 plus 8 and 8 (for "X"=88)

0

8

8

4. Scan "Enter/Exit Data Code Setting Mode" to finalize the configuration (Scanner will beep three times, indicating it exited configuration mode)

BeReGe
Enter/Exit Data Code Setting Mode

5. Scan the configuration code “Appear as Suffix” (the default is “Appear as Prefix”)

QaZcCb

Appear as Suffix

NOTE: This overview and example are meant to demonstrate the general process. For a full list of barcodes and values please see the Per-Symbology Prefix/Suffix Settings Appendix, the ASCII Visible Characters Table, and the Data and Edit Barcodes Appendix.

Prefixes and Suffixes with Special Configuration Barcodes

How to Add a Prefix

Step 1: Determine the HEX Values for the Prefix Characters

1. Identify the characters you wish to use as a prefix (e.g., “X” or “ABC”)
2. Refer to the ASCII Visible Characters Table in the Appendix for the HEX values of the characters you want to use
    a. Example: “X” = 58, “ABC” = 414243

Step 2: Program the Prefix

1. Scan the configuration barcode “Set Prefix” to allow the scanner to add a prefix

%%SpecCode9A

Set Prefix

2. Sequentially scan the barcode(s), from the Characters’ Barcodes Appendix, corresponding to the HEX value(s) of the desired character(s)
    a. For example, scan the barcode with HEX value 58 and for ABC scan the barcodes with HEX values 41, 42, 43

Remove a Prefix

To remove a previously configured prefix, scan the “Set Prefix” barcode:

%%SpecCode9A

Set Prefix

Example - Applying the Prefix "X"

Below is an example illustrating how to configure a prefix of "X" for all barcode types. This overview and example are meant to demonstrate the general process. For a full list of supported barcodes and values, please see the relevant appendices.

To avoid scanning the wrong code by mistake, cover nearby barcodes while scanning the intended one.

Program Sequence:

1. Scan the configuration barcode "Set Prefix" to enter the configuration mode

%%SpecCode9A

Set Prefix

2. Scan the barcode corresponding to the HEX value of X, which is 58

%%58

58

NOTE: This overview and example are meant to demonstrate the general process. For a full list of barcodes and values please see the ASCII Visible Characters Table and the Characters' Barcodes Appendix.

How to Add a Suffix

Step 1: Determine the HEX Values for the Suffix Characters

1. Identify the characters you wish to use as a suffix (e.g., “X” or “ABC”)
2. Refer to the ASCII Visible Characters Table in the Appendix for the HEX values of the characters you want to use
    a. Example: “X” = 58, “ABC” = 414243

Step 2: Program the Suffix

1. Scan the configuration barcode “Set Suffix” to allow the scanner to add a suffix

%%SpecCode9B

Set Suffix

2. Sequentially scan the barcode(s), from the Characters’ Barcodes Appendix, corresponding to the HEX value(s) of the desired character(s)
    a. For adding X, scan the barcode with HEX value 58, and for ABC scan the barcodes with HEX values 41, 42, 43

Remove a Suffix

To remove a previously configured suffix, follow scan the “Set Suffix” barcode:

%%SpecCode9B

Set Suffix

Example - Applying the Suffix "X"

Below is an example illustrating how to configure a suffix of "X" for all barcode types. This overview and example are meant to demonstrate the general process. For a full list of supported barcodes and values, please see the relevant appendices.

To avoid scanning the wrong code by mistake, cover nearby barcodes while scanning the intended one.

Program Sequence:

1. Scan the configuration barcode "Set Suffix" to enter the configuration mode

%%SpecCode9B

Set Suffix

2. Scan the barcode corresponding to the HEX value of X, which is 58

%%58

58

NOTE: This overview and example are meant to demonstrate the general process. For a full list of barcodes and values please see the ASCII Visible Characters Table and the Characters' Barcodes Appendix.

Advance Configurations for Prefixes and Suffixes

This section explains how to use special codes to output specific key presses (key emulation) as prefixes or suffixes when scanning barcodes. This is useful when you need keys such as CTRL, ALT, SHIFT, or combinations (for example, CTRL+S, ALT+F4) that are not available in the standard prefix/suffix character table.

Configurations with Special Codes - Custom Key Emulation

There are two levels:

1. Character sets: which group of characters/key codes the scanner uses
2. Custom keys: up to 4 special keys you can define in Character Set 0 for advanced combinations

Character Sets (general use)

To set up a custom key emulation using character sets:

1. Decide which keys you want to emulate.
2. From the Character Set Action Appendix, find:
    a. The correct character set column
    b. The HEX value for each key
3. From the Available Character Sets Appendix, choose and scan the barcode for the character set you want to use.

Note: Use Character Set 3 if you want the output to match the characters in the ASCII column.

General process (prefix or suffix with character sets)

To avoid scanning the wrong code by mistake, cover nearby barcodes while scanning the intended one.

1. Choose whether you are setting a prefix or a suffix

To add key(s) as a prefix, scan:

%%SpecCode9A

Set Prefix

To add key(s) as a suffix, scan:

%%SpecCode9B

Set Suffix

2. Find the barcodes that correspond to the keys' HEX values in the Characters' Barcodes Appendix, then scan those barcodes in the order you want the keys to be sent

3. Scan the "Character Set" barcode for the character set you want to use.

To reset to the default character behavior, scan the **Character Set 0** barcode (default).
If needed, also scan the "prefix" or "suffix" reset barcodes to clear those settings.

Available Character Sets

Your scanner supports multiple character sets for customization. The available sets are:

- Character Set 0 (Default)
- Character Set 1
- Character Set 2
- Character Set 3
- Character Set 4

See the Available Character Sets Appendix for the barcodes to select each set.

Advanced Custom Keys in Character Set 0

For more advanced configurations that include CTRL, SHIFT, ALT, and their combinations (SHIFT+CTRL, ALT+CTRL, ALT+SHIFT, ALT+SHIFT+CTRL), the scanner provides 4 custom key slots in Character Set 0.

These 4 custom keys correspond to characters in Character Set 0 that are reserved for this purpose and have the following HEX and decimal values:

- Custom Key 1 → HEX 04 (decimal 4)
- Custom Key 2 → HEX 05 (decimal 5)
- Custom Key 3 → HEX 06 (decimal 6)
- Custom Key 4 → HEX 07 (decimal 7)

You can assign any of these custom keys to send a combination like CTRL+ALT+X, SHIFT+F1, etc.

General Steps to Configure a Custom Key in Character Set 0

Step 1: Determine the Value for the Main Key

1. Identify the character you wish to use as the main key (e.g., “X” or “A”)
2. Refer to the Custom Keys Main Key Appendix for the values and barcodes of the characters you want to use
    a. Example: “X” = 1B, “A” = 04.

Step 2: Determine the Modifier Key

1. Identify the desired modifier key (e.g., “CTRL” or “SHIFT”)
2. Refer to the Modifier Key Appendix for the configuration codes of the modifier keys you want to use
    a. Example: “CTRL” = %%01, “SHIFT” = %%02

Step 3: Program The Configuration

1. Select Character Set 0
    a. Scan the barcode to switch to Character Set 0 (see Available Character Sets Appendix).
2. Choose which custom key to configure
    a. Scan one of the following barcodes to select Custom Key 1-4:

Custom Key 1

Custom Key 2

Custom Key 3

Custom Key 4

3. Set the modifier key (CTRL / ALT / SHIFT)
    a. Scan the Setting Code barcode for the modifier combination you want (%%00-%%07) from the Modifier Key Appendix.
    b. Example: scan %%01 for CTRL only.
4. Set the main key
    a. Scan the barcode for the main key (e.g., A, F1, Enter) from the Custom Keys Main Key Appendix.

Important Notes:

- Only the Custom Keys Main Key Appendix applies to this configuration. Other character tables do not apply, and these custom key settings do not affect other prefix/suffix character tables.
- Configuring a custom key only defines the keystroke combination. To use it in your scanner's output, you must also assign it as a prefix or suffix using the standard prefix/suffix configuration. See Prefixes and Suffixes with Special Configuration Barcodes.

Once configured, whenever this custom key is used in a prefix/suffix configuration, the scanner will send the selected modifier combination plus the main key as a single keystroke sequence.

Hiding Characters with Basic Configuration Barcodes

Understand to what this configuration should apply:

1. If you want to apply the hiding setting for all barcode types, follow these instructions:
    a. Hide Start Characters for All Barcodes
    b. Hide Middle Characters for All Barcodes
    c. Hide End Characters for All Barcodes

2. If you want to apply it for only a specific barcode type, follow these instructions:
    a. Hide Start Characters for Specific Barcodes
    b. Hide Middle Characters for Specific Barcodes
    c. Hide End Characters for Specific Barcodes

Hide Start Characters for All Barcodes

This feature hides a configurable section at the start of the scanned barcode data. You can set any start length (1-255).

Step 1: Enable Hiding from the Start

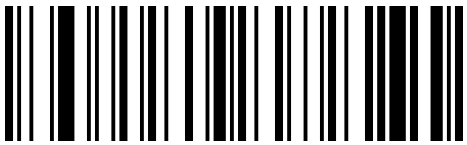
Scan the "Enable Hidden Start Characters" setting code, to enable hiding characters at the start of barcodes.

WaQbCb

Enable Hidden Start Characters

Step 2: Enter Data Code Setting

Scan the "Enter/Exit Data Code Setting Mode" code below. The scanner will beep three times to indicate that you have entered the setup mode.

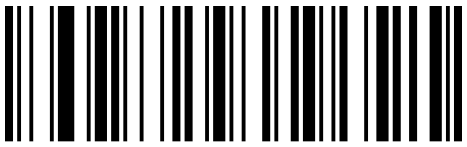


BeReGe

Enter/Exit Data Code Setting Mode

Step 3: Set the Number of Hidden Start Characters

1. Scan the "Number of Hidden Start Characters" code below to enter the setup for how many characters will be hidden (range: 1-255)



YdRbLa

Number of Hidden Start Characters

2. After scanning this code, scan three numeric setting codes from the Numeric Entry Codes Appendix to define how many characters to hide
    a. Example: To hide 5 characters, scan the numeric codes 0, 0, and 3
    b. Each of the three numeric codes is scanned separately, and the scanner will emit 1, 2, and 3 beeps respectively as you scan them

Step 4: Exit Data Code Setting

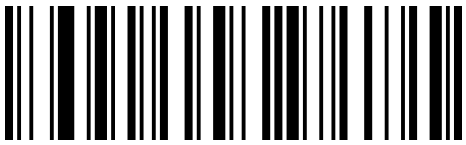
Scan the “Enter/Exit Data Code Setting Mode” code again. The scanner will beep three times to confirm that the settings have been saved.

BeReGe

Enter/Exit Data Code Setting Mode

To Disable Hidden Start Characters

If you wish to turn off this feature, scan the code below named “Disable Hidden Start Characters”:



WaQbSa

Disable Hidden Start Characters

Example - Hiding First 3 Character for All Barcodes

In this example, the scanner will hide 3 characters starting from the first character of every barcode. This overview and example are meant to demonstrate the general process. For a full list of supported barcodes and values, please see the relevant appendices.

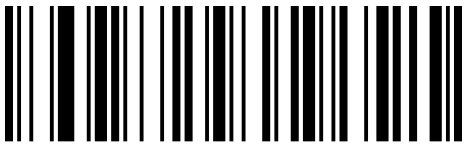
Step 1: Scan the "Enable Hidden Start Character" setting code, to enable hiding characters at the end of barcodes.

WaQbCb
Enable Hidden Start Character

Step 2: Scan the "Enter/Exit Data Code Setting Mode" code below. The scanner will beep three times to indicate that you've entered the setup mode.

BeReGe
Enter/Exit Data Code Setting Mode

Step 3: Scan the "Number of Hidden Start Characters" code below to enter the setup for how many characters will be hidden (range: 1-255).

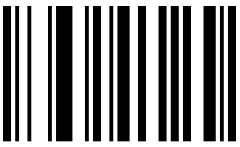


YdRbLa
Number of Hidden Start Characters

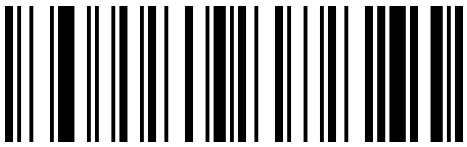
Step 4: Scan 0, 0, and 3 below to set the hiding of 3 characters. The scanner will emit 1, 2, and 3 beeps respectively.


0


0


3

Step 5: Scan the “Enter/Exit Data Code Setting Mode” code again. The scanner will beep three times to confirm that the settings have been saved.


BeReGe
Enter/Exit Data Code Setting Mode

To Disable Hidden Start Characters

If you wish to turn off this feature, scan the code below named “Disable Hidden Start Characters”:


WaQbSa
Disable Hidden Start Characters

NOTE: This overview and example are meant to demonstrate the general process. For a full list of barcodes and values, please see the Data and Edit Barcodes Appendix.

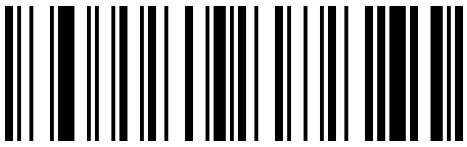
Hide Middle Characters for All Barcodes

This feature hides a configurable section in the middle of the scanned barcode data. You can set any start position and length (1-255). If the start position is beyond the barcode length, nothing is hidden. If the length extends past the end of the barcode, all characters from the start position to the end are hidden.

Step 1: Enable Hiding from the Middle
Scan the “Enable Hidden Middle Character” setting code to enable hiding characters in the middle of barcodes.

WaQbBb
Enable Hidden Middle Character

Step 2: Enter Data Code Setting Mode
Scan the “Enter/Exit Data Code Setting Mode” code below. The scanner will beep three times to indicate that you have entered the setup mode.



BeReGe
Enter/Exit Data Code Setting Mode

Step 3: Set the Starting Position of Hidden Characters

1. Scan the "Hidden Middle Data Start Position" code below to enter the setup for the start position of the hidden middle data (range: 1-255).

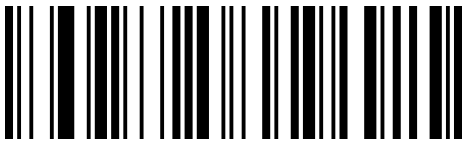
YdSbLa

Hidden Middle Data Start Position

2. After scanning this code, scan three numeric setting codes from the Numeric Entry Codes Appendix to define where hiding should begin.
    a. Example: To hide data starting from the fourth character (i.e., hide from position 4 onward, after the first three visible characters), scan the numeric codes 0, 0, and 3
    b. Each of the three numeric codes is scanned separately, and the scanner will emit 1, 2, and 3 beeps respectively as you scan them.

Step 4: Set the Number of Hidden Middle Characters

1. Scan the "Number of Hidden Middle Characters" code below to enter the setup for how many characters will be hidden (range: 1-255).



YdTbLa

Number of Hidden Middle Characters

2. After scanning this code, scan three numeric setting codes from the Numeric Entry Codes Appendix to define how many characters to hide.
    a. Example: To hide 5 characters, scan the numeric codes 0, 0, and 5.
    b. Each of the three numeric codes is scanned separately, and the scanner will emit 1, 2, and 3 beeps respectively as you scan them.

Step 5: Exit Data Code Setting

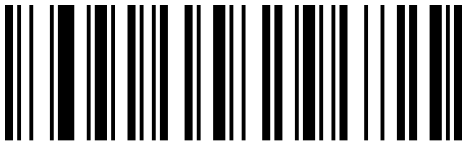
Scan the “Enter/Exit Data Code Setting Mode” code again. The scanner will beep three times to confirm that the settings have been saved.

BeReGe

Enter/Exit Data Code Setting Mode

To Disable Hidden Middle Characters

If you wish to turn off this feature, scan the code below named “Disable Hidden Middle Character”:



WaQbRa

Disable Hidden Middle Character

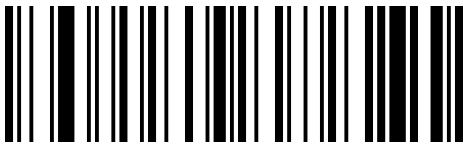
Example - Hiding Middle 5 Character for All Barcodes

In this example, the scanner will hide 5 characters starting from the fourth character of every barcode. This overview and example are meant to demonstrate the general process. For a full list of supported barcodes and values, please see the relevant appendices.

Step 1: Scan the "Enable Hidden Middle Character" setting code.

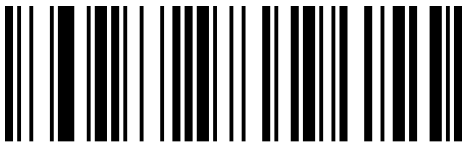
WaQbBb
Enable Hidden Middle Character

Step 2: Scan the "Enter/Exit Data Code Setting Mode" code. The scanner will beep three times to indicate that you've entered setup mode.



BeReGe
Enter/Exit Data Code Setting Mode

Step 3: Scan the "Hidden Middle Data Start Position" code below to enter the setup for the start position of the hidden middle data (range: 1-255).

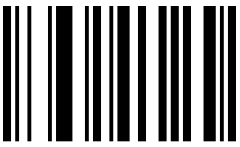


YdSbLa
Hidden Middle Data Start Position

Step 4: Scan 0, 0, and 3 here below to set the starting character to the 4. The scanner will emit 1, 2, and 3 beeps respectively.


0


0


3

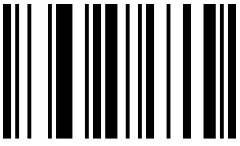
Step 5: Scan the “Number of Hidden Middle Characters” code below to enter the setup for how many characters will be hidden (range: 1-255).


YdTbLa
Number of Hidden Middle Characters

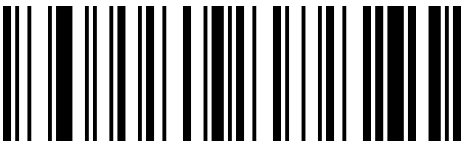
Step 6: Scan 0, 0, and 5 here below to set the hiding of 5 characters. The scanner will emit 1, 2, and 3 beeps respectively.


0


0


5

Step 7: Scan the “Enter/Exit Data Code Setting Mode” code again. The scanner will beep three times to confirm that the settings have been saved.


BeReGe
Enter/Exit Data Code Setting Mode

To Disable Hidden Middle Characters

If you wish to turn off this feature, scan the code below named “Disable Hidden Middle Character”:

WaQbRa

Disable Hidden Middle Character

NOTE: This overview and example are meant to demonstrate the general process. For a full list of barcodes and values please see the Data and Edit Barcodes Appendix.

Hide End Characters for All Barcodes

This feature hides a configurable section at the end of the scanned barcode data. You can set any end length (1-255).

Step 1: Enable Hiding from the End

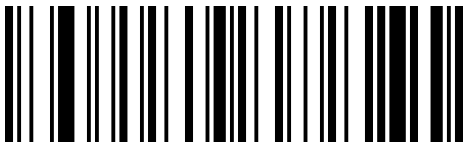
Scan the "Enable Hidden End Character" setting code, to enable hiding characters at the end of barcodes.

WaQbAb

Enable Hidden End Character

Step 2: Enter Data Code Setting Mode

Scan the "Enter/Exit Data Code Setting Mode" code below. The scanner will beep three times to indicate that you've entered the setup mode.

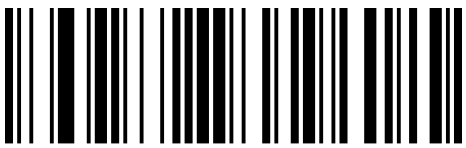


BeReGe

Enter/Exit Data Code Setting Mode

Step 3: Set the Number of Hidden End Characters

1. Scan the "Number of Hidden End Characters" code below to enter the setup for how many characters will be hidden (range: 1-255)



YdUbLa

Number of Hidden End Characters

2. After scanning this code, scan three numeric setting codes from the Numeric Entry Codes Appendix to define how many characters to hide
    a. Example: To hide 5 characters, scan the numeric codes 0, 0, and 3
    b. Each of the three numeric codes is scanned separately, and the scanner will emit 1, 2, and 3 beeps respectively as you scan them

Step 4: Exit Data Code Setting Mode

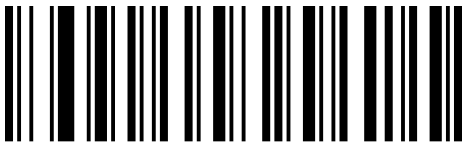
Scan the “Enter/Exit Data Code Setting Mode” code again. The scanner will beep three times to confirm that the settings have been saved.

BeReGe

Enter/Exit Data Code Setting Mode

To Disable Hidden End Characters

If you wish to turn off this feature, scan the code below named “Disable Hidden End Characters”:



WaQbQa

Disable Hidden End Characters

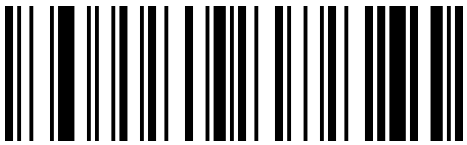
Example - Hiding Last 3 Character for All Barcodes

In this example, the scanner will hide 3 characters from the last part of every barcode. This overview and example are meant to demonstrate the general process. For a full list of supported barcodes and values, please see the relevant appendices.

Step 1: Scan the "Enable Hidden End Character" setting code, to enable hiding characters at the end of barcodes.

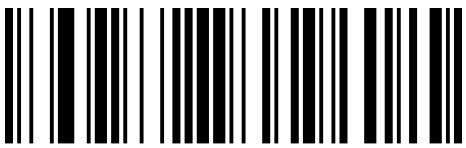
WaQbAb
Enable Hidden End Character

Step 2: Scan the "Enter/Exit Data Code Setting Mode" code below. The scanner will beep three times to indicate that you've entered the setup mode.



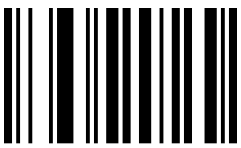
BeReGe
Enter/Exit Data Code Setting Mode

Step 3: Scan the "Number of Hidden End Characters" code below to enter the setup for how many characters will be hidden.

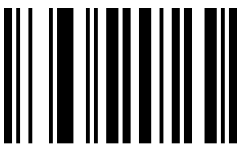


YdUbLa
Number of Hidden End Characters

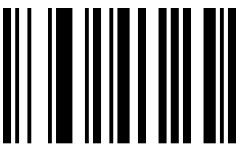
Step 4: Scan 0, 0, and 3 here below to set the hiding of 3 characters. The scanner will emit 1, 2, and 3 beeps respectively.



0

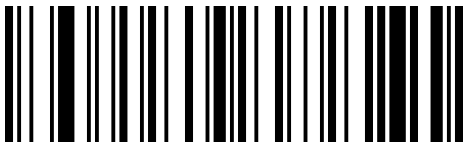


0



3

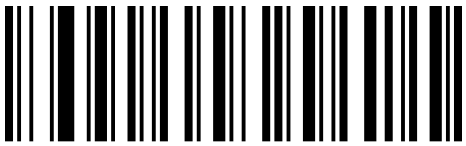
Step 5: Scan the “Enter/Exit Data Code Setting Mode” code again. The scanner will beep three times to confirm that the settings have been saved.



BeReGe
Enter/Exit Data Code Setting Mode

To Disable Hidden End Characters

If you wish to turn off this feature, scan the code below named “Disable Hidden Middle Characters”:



WaQbQa
Disable Hidden End Characters

NOTE: This overview and example are meant to demonstrate the general process. For a full list of barcodes and values please see the Data and Edit Barcodes Appendix.

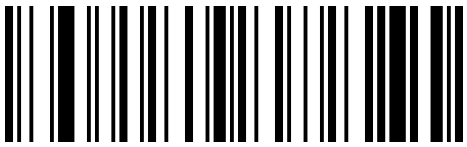
Hide Start Characters for Specific Barcodes

Step 1: Find the Configuration Codes for your Barcode Type

Consult the Hide Start Characters Appendix to locate the "Hidden Start Characters" configuration codes for each barcode type you want to adjust.

Step 2: Enter Data Code Setting Mode

Scan the "Enter/Exit Data Code Setting Mode" code below. The scanner will beep three times to indicate that you have entered setup mode.



BeReGe

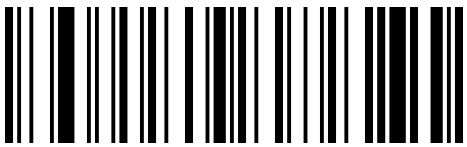
Enter/Exit Data Code Setting Mode

Step 3: Set the Number of Hidden Start Characters for your Barcode Type

1. Scan the "Hidden Start Characters" code for the specific barcode type found in the Hide Start Characters Appendix to enter the setup for how many characters will be hidden (range: 1-255).
2. After scanning this code, scan three numeric setting codes from the Numeric Entry Codes Appendix to define how many characters to hide.
    a. Example: To hide 5 characters, scan the numeric codes 0, 0, 5.
    b. Each of the three numeric codes is scanned separately, and the scanner will emit 1, 2, and 3 beeps respectively as you scan them.

Step 4: Exit Data Code Setting Mode

Scan the "Enter/Exit Data Code Setting Mode" code again. The scanner will beep three times to confirm that the settings have been saved.



BeReGe

Enter/Exit Data Code Setting Mode

To Disable Hidden Start Characters for Specific Barcode Types

Refer to the Hide Start Characters Appendix again and scan the reset configuration code for your specific barcode type to remove the “Hidden Start Characters” setting.

Example - Hide 5 Start Characters for QR Codes

In this example, the scanner will hide the first 5 characters for QR codes. This overview and example are meant to demonstrate the general process. For a full list of supported barcodes and values, please see the relevant appendices.

Step 1: Scan the “Enter/Exit Data Code Setting Mode” code below. The scanner will beep three times to indicate that you have entered setup mode.

BeReGe

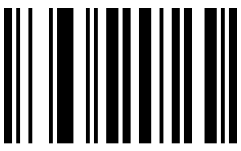
Enter/Exit data code setting mode

Step 2: Scan the “QR Codes Hidden Start Characters” code to enter the setup for how many characters will be hidden.

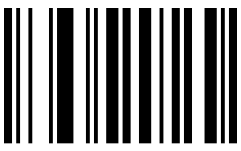
BeHbLa

QR Codes Hidden Start Characters

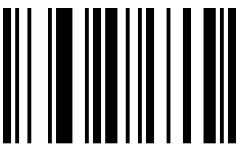
Step 3: Scan 0, 0, and 5 here below to set the hiding of 5 characters. The scanner will emit 1, 2, and 3 beeps respectively.



0

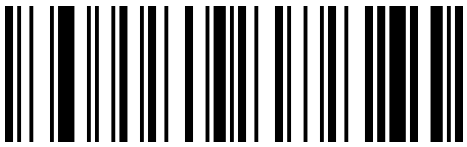


0



5

Step 4: Scan the “Enter/Exit Data Code Setting Mode” code again. The scanner will beep three times to confirm that the settings have been saved.

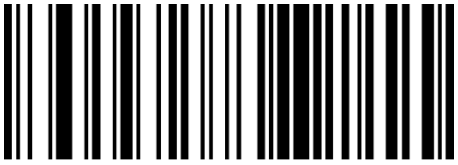


BeReGe

Enter/Exit Data Code Setting Mode

To Disable Hidden Start Characters for QR Codes

To disable hidden start characters for QR codes, scan:



RdHb00

Disable Hidden Start Characters for QR Codes

NOTE: This overview and example are meant to demonstrate the general process. For a full list of barcodes and values please see the Hide Start Characters Appendix and the Data and Edit Barcodes Appendix.

Hide Middle Characters for Specific Barcodes

Step 1: Find the Configuration Codes for your Barcode Type

Consult the Hide Middle Characters Appendix to locate the "Hidden Middle Data/Characters" configuration codes for each barcode type you want to adjust. You will need both the Hidden Middle Data Start Position and the Number of Hidden Middle Characters to define after which character data will be hidden and how many characters will be hidden.

Step 2: Enter Data Code Setting Mode

Scan the "Enter/Exit Data Code Setting Mode" code below. The scanner will beep three times to indicate that you have entered setup mode.

BeReGe

Enter/Exit Data Code Setting Mode

Step 3: Set the Hidden Middle Start Position for your Barcode Type

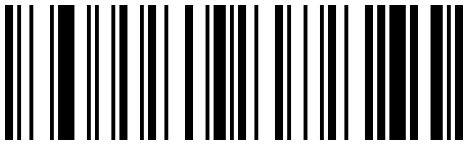
1. Scan the "Hidden Middle Data Start Position" code for the specific barcode type found in the Hide Middle Characters Appendix to enter the setup for the start position of the hidden middle data (range: 1-255).
2. After scanning this code, scan three numeric setting codes from the Numeric Entry Codes Appendix to define where hiding should begin
    a. To hide data starting from the fourth character (i.e., hide from position 4 onward, after the first three visible characters), scan the numeric codes 0, 0, 3.
    b. Each of the three numeric codes is scanned separately, and the scanner will emit 1, 2, and 3 beeps respectively as you scan them.

Step 4: Set the Number of Hidden Middle Characters for that Barcode Type

1. Scan the "Number of Hidden Middle Characters" code for the specific barcode type found in the Hide Middle Characters Appendix, to enter the setup for how many characters will be hidden (range: 1-255).
2. After scanning this code, scan three numeric setting codes from the Numeric Entry Codes Appendix to define how many characters to hide.
    a. Example: To hide 5 characters, scan the numeric codes 0, 0, 5.
    b. Each of the three numeric codes is scanned separately, and the scanner will emit 1, 2, and 3 beeps respectively as you scan them.

Step 5: Exit Data Code Setting Mode

Scan the "Enter/Exit Data Code Setting Mode" code again. The scanner will beep three times to confirm that the settings have been saved.



BeReGe

Enter/Exit Data Code Setting Mode

To Disable Hidden Middle Characters for specific barcode types

Refer to the Hide Middle Characters Appendix again and scan the reset configuration code for your specific barcode type to remove the "Hidden Middle Data/Characters" setting.

Example - Hide 5 Characters Starting from the 4th Character for QR Codes

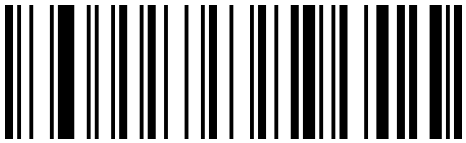
In this example, the scanner will hide 5 characters starting from the 4th character of all QR codes. This overview and example are meant to demonstrate the general process. For a full list of supported barcodes and values, please see the relevant appendices.

Step 1: Scan the "Enter/Exit Data Code Setting Mode" code below. The scanner will beep three times to indicate that you've entered setup mode.

BeReGe

Enter/Exit Data Code Setting Mode

Step 2: Scan the "Hidden Middle Data Start Position for QR Codes" code to enter the setup for the start position of the hidden middle data.



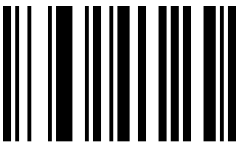
BeBcLa

Hidden Middle Data Start Position for QR Codes

Step 3: Scan 0, 0, and 3 below to set the starting character to the 4. The scanner will emit 1, 2, and 3 beeps respectively.

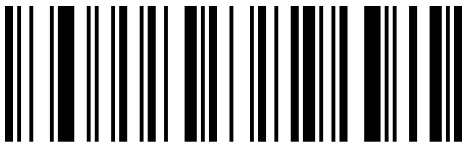
0

0



3

Step 4: Scan the “Number of Hidden Middle Characters for QR Codes” code to enter the setup for how many characters will be hidden.



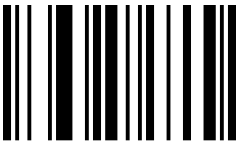
BeVcLa

Number of Hidden Middle Characters for QR Codes

Step 5: Scan 0, 0, and 5 below to set the hiding of 5 characters. The scanner will emit 1, 2, and 3 beeps respectively.

0

0



5

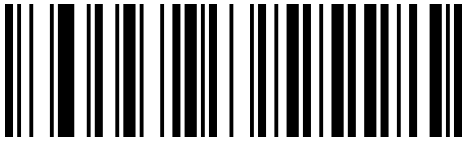
Step 6: Scan the “Enter/Exit Data Code Setting Mode” code again. The scanner will beep three times to confirm that the settings have been saved.

BeReGe

Enter/Exit Data Code Setting Mode

To Disable Hidden Middle Characters for QR codes

To disable hidden middle characters for QR codes, scan:



RdVc00

Disable Hidden Middle Characters for QR codes

NOTE: This overview and example are meant to demonstrate the general process. For a full list of barcodes and values, please see the Hide Middle Characters Appendix and the Data and Edit Barcodes Appendix.

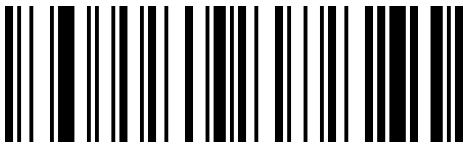
Hide End Characters for Specific Barcodes

Step 1: Find the Configuration Code for Your Barcode Type

Consult the Hide End Characters Appendix to locate the "Hidden End Characters" configuration code for each barcode type you want to adjust.

Step 2: Enter Data Code Setting Mode

Scan the "Enter/Exit Data Code Setting Mode" code below. The scanner will beep three times to indicate that you've entered setup mode.



BeReGe

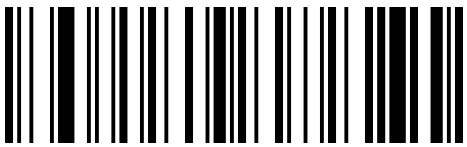
Enter/Exit Data Code Setting Mode

Step 4: Set the Number of Hidden End Characters for that Barcode Type

1. Scan the "Hidden End Characters" code for the specific barcode type found in the Hide End Characters Appendix to enter the setup for how many characters will be hidden (range: 1-255).
2. After scanning this code, scan three numeric setting codes from the Numeric Entry Codes Appendix to define how many characters to hide.
    a. Example: To hide 5 characters, scan the numeric codes 0, 0, 5.
    b. Each of the three numeric codes is scanned separately, and the scanner will emit 1, 2, and 3 beeps respectively as you scan them.

Step 5: Exit Data Code Setting Mode

Scan the "Enter/Exit Data Code Setting Mode" code again. The scanner will beep three times to confirm that the settings have been saved.



BeReGe

Enter/Exit Data Code Setting Mode

To Disable Hidden End Characters for Specific Barcode Types

Refer to the Hide End Characters Appendix again and scan the reset configuration code for your specific barcode type to remove the “Hidden End Characters” setting.

Example - Hide 5 End Characters for QR Codes

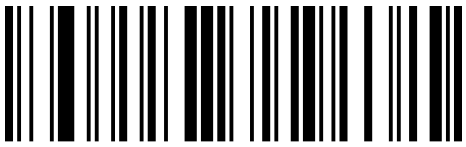
In this example, the scanner will hide the last 5 characters for QR codes. This overview and example are meant to demonstrate the general process. For a full list of supported barcodes and values, please see the relevant appendices.

Step 1: Scan the “Enter/Exit Data Code Setting Mode” code below. The scanner will beep three times to indicate that you’ve entered setup mode.

BeReGe

Enter/Exit Data Code Setting Mode

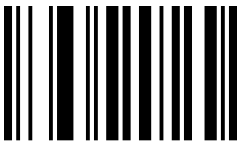
Step 2: Scan the “Hidden End Characters for QR Codes” code to enter the setup for how many characters will be hidden.



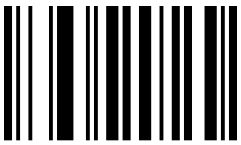
BePdLa

Hidden End Characters for QR codes

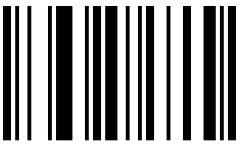
Step 3: Scan 0, 0, and 5 below to set the hiding of 5 characters. The scanner will emit 1, 2, and 3 beeps respectively.



0

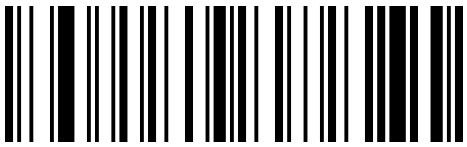


0



5

Step 4: Scan the “Enter/Exit Data Code Setting Mode” code again. The scanner will beep three times to confirm that the settings have been saved.

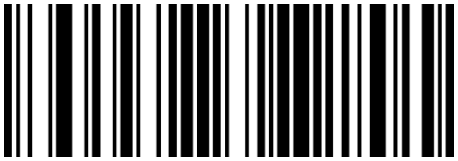


BeReGe

Enter/Exit Data Code Setting Mode

To Disable Hidden End Characters for QR Codes

To disable hidden End characters for QR codes, scan:



RdPd00

Disable Hidden End Characters for QR Codes

NOTE: This overview and example are meant to demonstrate the general process. For a full list of barcodes and values please see the Hide End Characters Appendix and the Data and Edit Barcodes Appendix.

Hiding Characters with Special Configuration Codes

To avoid scanning the wrong code by mistake, it is recommended to cover adjacent codes while scanning the intended one. This ensures accurate setup and prevents unintended changes to the configuration.

If you need to hide more than 4 characters, please contact our helpdesk:

1. Email: helpdesk@scanavenger.com
2. Phone: +1 (424) 444-6929
3. Chat: On our website scanavenger.com

1. Choose Hidden Position:

a. To hide characters from the front of the barcode, scan the “Hide Characters from Barcode Start” barcode.

b. To hide characters from the back of the barcode, scan the “Hide Characters from Barcode End” barcode.

%%SpecCodeA0

Hide Characters from Barcode Start

%%SpecCodeA1

Hide Characters from Barcode End

2. Scan the barcode corresponding to the number of characters which need to be hidden.

%%01
Hide 1 bit

%%02
Hide 2 bits

%%03
Hide 3 bits

%%04
Hide 4 bits

Additional Configurations with Basic and Special Codes

Custom Character Insertion

This feature allows you to insert a custom character at any position in the decoded barcode data. You can insert up to 10 bytes. Use the ASCII Visible Characters Table together with the Numeric Entry Codes Appendix to find the 3-digit decimal values for the character to insert and for the position.

- If the position is set to 0, the character is inserted at the beginning of the decoded data
- If the position is set greater than the decoded data length, the character is inserted at the end of the decoded data
- Valid positions range from 1 to 255

Step 1: Enable Custom Character Insertion

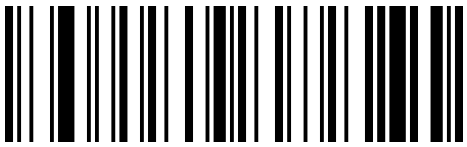
First, enable the display of the inserted custom characters by scanning the “Display Custom Characters On” code:

WaQbYb

Display Custom Characters On

Step 2: Enter Data Code Setting Mode

Scan the “Enter/Exit Data Code Setting Mode” code below. The scanner will beep three times to indicate that you’ve entered the setup mode.

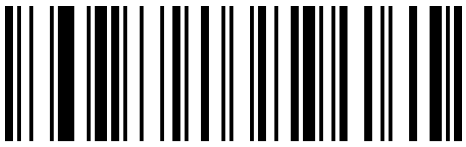


BeReGe

Enter/Exit Data Code Setting Mode

Step 3: Set the Position Where the Custom Character is Inserted

Scan the "Set Custom Character Position" code:



YdFcLa

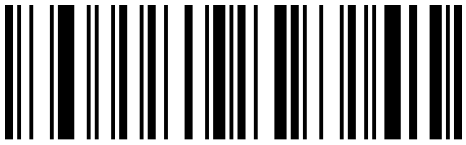
Set Custom Character Position

Step 4: Set the Position's Value

1. Scan the three numeric codes from the Numeric Entry Codes Appendix to set the position
    a. Example: To insert at position 16, scan 0, 1, 6
    b. Each of the three digits is scanned separately, and the buzzer will emit 1, 2, and 3 beeps respectively

Step 5: Set the Inserted Custom Character

Scan the "Set the Inserted Custom Character" code:



BeReYc

Set the Inserted Custom Character

Step 6: Set the Inserted Character

2. Scan the three numeric codes from the Numeric Entry Codes Appendix for the character you want to insert (using the ASCII Visible Characters Table to find its decimal value)
    a. Example: "X" = 88
    b. Each digit is scanned separately, and the buzzer will emit 1, 2, and 3 beeps respectively

Step 7: Exit Data Code Setting

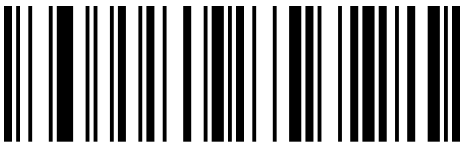
Scan the "Enter/Exit Data Code Setting Mode" code again. The scanner will beep three times to confirm that the settings have been saved.

BeReGe

Enter/Exit Data Code Setting Mode

Clear or Disable Custom Character Insertion

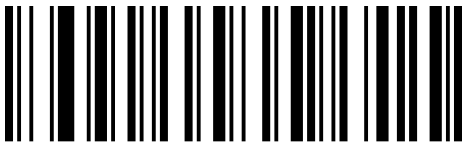
To clear the inserted character data (remove the current insertion setting):



BeReOd

Clear Custom Character Insertion

To completely disable this feature, scan the code “Display Custom Characters Off”:



WaQbOa

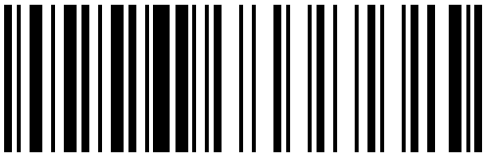
Display Custom Characters Off**

Example - Insert "X" After the 4th Character

Goal: Insert the character "X" after the fourth digit of the sample barcode.

For example, for a code with the original barcode content 1616abcd, the expected output after configuration is 1616Xabcd.

1616abcd Sample Code:



1616abcd

From the ASCII Visible Characters Table and Numeric Entry Codes Appendix:

- Insertion position "4" → decimal value 004 (position 4)
- Insertion character "X" → decimal value 088

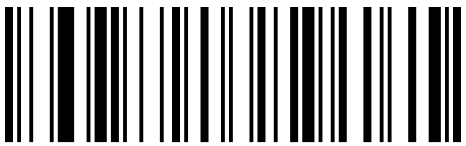
Step 1: Enter Data Code Setting Mode

Scan the "Enter/Exit Data Code Setting Mode" code. The scanner will beep three times.

BeReGe

Enter/Exit Data Code Setting Mode

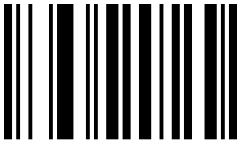
Step 2: Scan the "Set Custom Character Position" code to enter the insertion position setup.

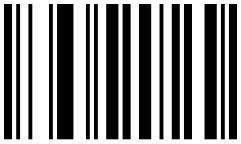


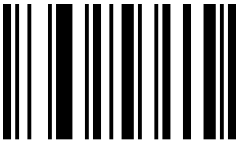
YdFcLa

Set Custom Character Position

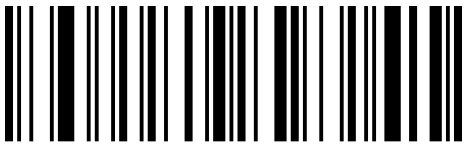
Step 3: Sequentially scan 0, 0, 4 from the Numeric Entry Codes Appendix to set the insertion position to 4. Each digit is scanned separately, and the buzzer will emit 1, 2, and 3 beeps respectively


0

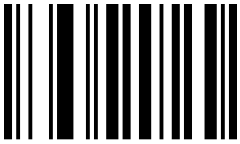

0

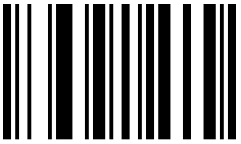

4

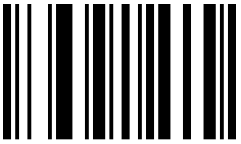
Step 4: Scan the "Set the Inserted Custom Character" to set up the custom character


BeReYc
Set the Inserted Custom Character

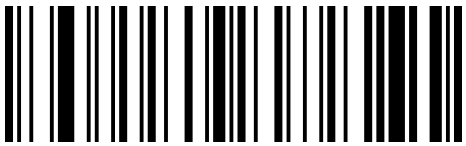
Step 5: Sequentially scan 0, 8, 8 from the Numeric Entry Codes Appendix to set the inserted character to "X". Each digit is scanned separately, and the buzzer will emit 1, 2, and 3 beeps respectively.


0


8


8

Step 6: Exit Data Code Setting
Scan the "Enter/Exit Data Code Setting Mode" code again. The scanner will beep three times to confirm that the settings have been saved.


BeReGe
Enter/Exit Data Code Setting Mode

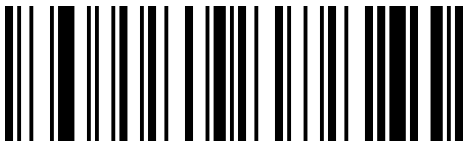
NOTE: This overview and example are meant to demonstrate the general process. For a full list of barcodes and values please see the ASCII Visible Characters Table and the Data and Edit Barcodes Appendix.

Character Substitution Settings

The character substitution function lets you replace any character that appears in the scanned barcode (the original character) with another character in the output (the replacement character). Use the appendix ASCII Visible Characters Table together with the Numeric Entry Codes Appendix to find the 3-digit decimal values for the characters you want to replace.

Step 1: Enter Data Code Setting Mode

Scan the "Enter/Exit Data Code Setting Mode" code below. The scanner will beep three times to indicate that you've entered the setup mode.

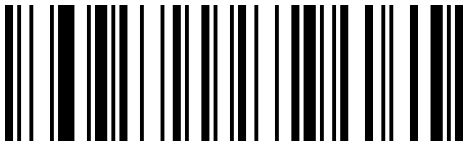


BeReGe

Enter/Exit Data Code Setting Mode

Step 2: Set the Character Replaced in the Output

1. Scan the "Character to be Replaced" code:



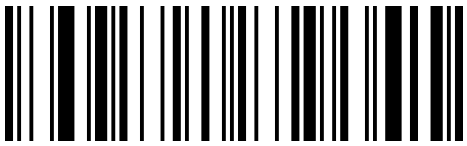
VdEeLa

Character to be Replaced

2. Scan the 3-digit decimal value of the original character (from the Numeric Entry Codes Appendix you can find the codes to be scanned, based on the values found in the ASCII Visible Characters Table)
    a. Each of the three digits is scanned separately, and the buzzer will emit 1, 2, and 3 beeps respectively

Step 3: Set the Replacement Character

1. Scan the “Replacement Character” code:



VdFeLa

Replacement Character

2. Scan the 3-digit decimal value of the new character (from the Numeric Entry Codes Appendix you can find the codes to be scanned, based on the values found in the appendix ASCII Visible Characters Table)
    a. Each of the three digits is scanned separately, and the buzzer will emit 1, 2, and 3 beeps respectively

Step 4: Exit Data Code Setting

Scan the “Enter/Exit Data Code Setting Mode” code again. The scanner will beep three times to confirm that the settings have been saved

BeReGe

Enter/Exit Data Code Setting Mode

To clear a character substitution, set “Character to be replaced” to NULL, which is the decimal value 000, or scan the “Remove Replacement Characters” code:

LdEd000

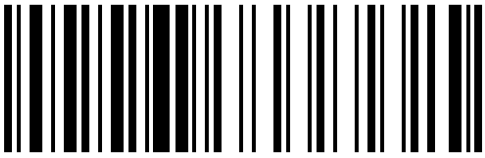
Remove Replacement Characters

Example - Replace the character "6" with "X"

Goal: When the scanner reads a 6, it should output X instead.

For example, if the original barcode content is 1616abcd, after this setting it will output 1X1Xabcd.

1616abcd Sample code:



From the ASCII Visible Characters Table and Numeric Entry Codes Appendix:

- Original character "6" → decimal value 054
- Replacement character "X" → decimal value 088

Step 1: Enter Data Code Setting Mode

Scan the "Enter/Exit Data Code Setting Mode" code. The scanner will beep three times.

BeReGe

Enter/Exit Data Code Setting Mode

Step 2: Select the Character to be Replaced

Scan the "Character to be Replaced" setting code:

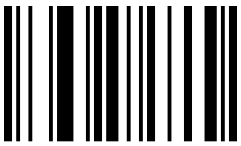
VdEeLa

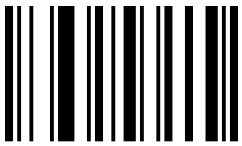
Character to be Replaced

Step 3: Enter the Original Character (“6”)

1. Scan the numeric codes 0, 5, 4 from the Numeric Entry Codes Appendix to set the character to be replaced as “6”.
    a. Each of the three digits is scanned separately, and the buzzer will emit 1, 2, and 3 beeps respectively.

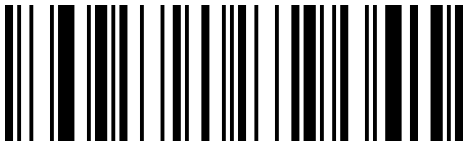

0


5


4

Step 4: Select the Replacement Character

Scan the “Replacement Character” setting code


VdFeLa
Replacement Character

Step 5: Enter the Replacement Character (“X”)

1. Scan the numeric codes 0, 8, 8 from the Numeric Entry Codes Appendix to set the replacement character as “X”
    a. Each of the three digits is scanned separately, and the buzzer will emit 1, 2, and 3 beeps respectively


0


8


8

Step 4: Exit Data Code Setting

Scan the “Enter/Exit Data Code Setting Mode” code again. The scanner will beep three times to confirm that the settings have been saved.


BeReGe
Enter/Exit Data Code Setting Mode

NOTE: This overview and example are meant to demonstrate the general process. For a full list of barcodes and values please see the ASCII Visible Characters Table and the Data and Edit Barcodes Appendix.

Sound Settings

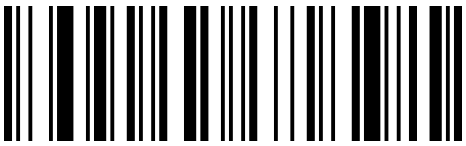
This scanner uses two independent buzzers:

1. A basic buzzer, controlled by Basic Sound Codes. It handles sound feedback when scanning basic configuration codes found in this manual.
2. A special buzzer, controlled by Special Sound Codes. It handles sound feedback when scanning special configuration codes, as well as startup/shutdown sounds and sound feedback when scanning standard 1D and 2D barcodes.

Each buzzer has its own settings. Codes for one buzzer do not affect the other. Make sure you use the correct group of codes depending on which buzzer you want to configure

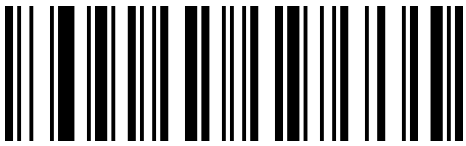
Basic Sound Codes

Basic Configuration Codes Sound



WaZaCb

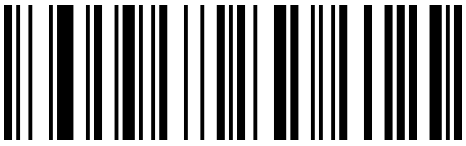
Basic Configuration Codes Sound On**



WaZaSa

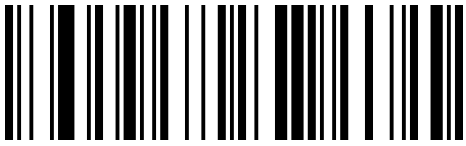
Basic Configuration Codes Sound Off

Sound Length



RaCeZa

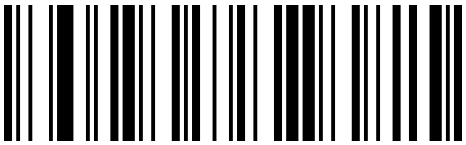
Sound Length Short Length



RaCePa

Sound Length Normal Length**

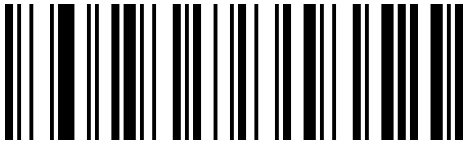
Frequency of Sound



LbDeUb
Low frequency 1.6 KHZ

LbDeEc
Low-medium frequency 2.0 KHZ**

LbDeAb
Medium frequency 2.7 KHZ



LbDeKb
High frequency 4.2 KHZ

Volume of Sound

BbDePb
Volume Off

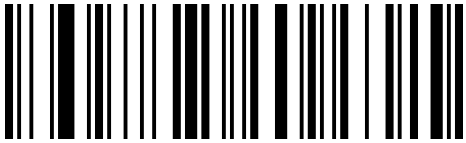
BbDeFb
Volume Low

BbDeVa
Volume Medium

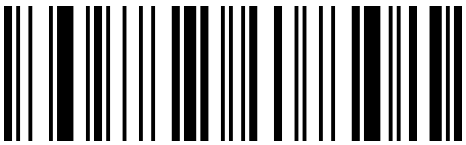
BbDeLa
Volume High**

Warning Sound for Errors During Scanning

GbZaNa
Warning Sound Low Frequency 2.5 KHZ**



GbZaXa
Warning Sound Medium Frequency 3.25 KHZ



GbZaHb
Warning Sound High Frequency 4.2 KHZ

Special Sound Codes

The special buzzer is configured with a different set of codes. Codes from this section only affect the special buzzer and will not change the basic buzzer settings.

To avoid scanning the wrong code by mistake, cover adjacent codes while scanning the intended one. This helps ensure accurate setup and prevents unintended changes.

Scan the barcode for the desired setting:

%%SpecCode94

%%SpecCode94

Turn Sound Off

%%SpecCode95

%%SpecCode95

Low Volume

%%SpecCode96

%%SpecCode96

Medium Volume

%%SpecCode97

%%SpecCode97

High Volume**

%%SpecCode7C

%%SpecCode7C

Buzzer Frequency 2 KHZ

%%SpecCode7D

Buzzer Frequency 2.7 KHZ**

Barcode Length Settings

This process is different for 1D barcode types and 2D code types.

You can limit which barcodes are accepted by setting a minimum and maximum length for each barcode type.
This works differently for 1D barcodes (like Code 128) and 2D codes (like QR Code).

1. If minimum length > maximum length → the scanner accepts any length for that barcode type
2. If minimum length = maximum length → the scanner accepts only that exact length

1D Barcode Length Settings

For 1D codes, you can set the minimum and maximum length directly as values from 1 to 255. Different barcode types may support different ranges, so please check the range of your specific barcode type before using this setting.

1. Enter data code setting mode
2. Scan the “Minimum Length” setting code for the desired 1D barcode type, then enter the 3-digit value from the Numeric Entry Codes Appendix (e.g., 006)
3. Scan the “Maximum Length” setting code for the same barcode type, then enter the 3-digit value from the Numeric Entry Codes Appendix (e.g., 015)
4. Exit data code setting mode to save

Example - Set Code 128 Length to 6-15 Characters

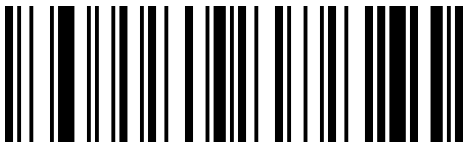
Goal: only accept Code 128 barcodes that are between 6 and 15 characters long.

First, write the length values as 3-digit numbers:

1. 6 → 006
2. 15 → 015

Step 1: Enter Data Code Setting Mode

Scan the “Enter/Exit Data Code Setting Mode” code. The scanner will beep three times.

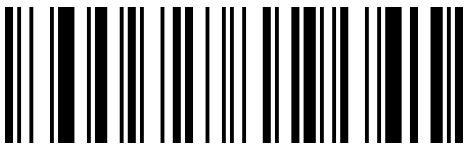


BeReGe

Enter/Exit Data Code Setting Mode

Step 2: Set Minimum Length for Code 128

Scan the “Minimum Length” setting code for Code 128:



XdIbLa

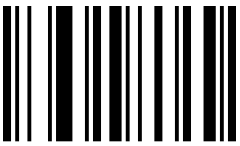
Code 128 Minimum Length

Step 3: Enter the Minimum Length Value

1. Scan the numeric codes 0, 0, 6 from the Numeric Entry Codes Appendix to set the minimum length to 6
    a. Each of the three digits is scanned separately, and the buzzer will emit 1, 2, and 3 beeps respectively


0


0


6

Step 4: Set Maximum Length for Code 128

Scan the “Maximum Length” setting code for Code 128:


XdJbLa

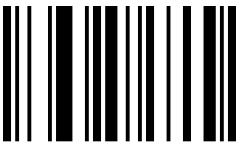
Code 128 Maximum Length

Step 5: Enter the Maximum Length Value

1. Scan the numeric codes 0, 1, 5 from the Numeric Entry Codes Appendix to set the maximum length to 15
    a. Each digit is scanned separately, and the buzzer will emit 1, 2, and 3 beeps respectively

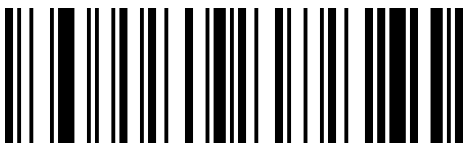

0


1


5

Step 6: Exit Data Code Setting

Scan the “Enter/Exit Data Code Setting Mode” code again. The scanner will beep three times to confirm that the setting has been saved.


BeReGe

Enter/Exit Data Code Setting Mode

2D Barcode Length Settings

General idea for 2D codes

2D codes (like QR) can be much longer than 255 characters. Because of this, the scanner stores the minimum and maximum length using two bytes:

- High byte - how many full “blocks” of 256 characters
- Low byte - the remainder after you take out those 256-character blocks

Note: Different barcode types may have different ranges. Please check the range of your specific barcode type before using this setting.

Always set four values for a 2D code:

1. Minimum Length - High Byte
2. Minimum Length - Low Byte
3. Maximum Length - High Byte
4. Maximum Length - Low Byte

If the length is less than 256, then:

- High Byte = 0
- Low Byte = the length itself (256)

How to break a number into high byte and low byte:

1. High Byte = how many times 256 fits into your number (whole times only).
2. Low Byte = what is left after you remove those 256s.

Example: length = 300

- 256 fits into 300 one time → high byte = 1
- 300 - 256 = 44 → low byte = 44

Which means:

- High Byte = 1 → written as 001 when you scan
- Low Byte = 44 → written as 044 when you scan

If the maximum length is 180:

- 256 fits into 180 zero times → High Byte = 0
- Remainder = 180 → Low Byte = 180

Which means:

- High Byte = 0 → 000
- Low Byte = 180 → 180

General process for 2D barcodes

1. Calculate the high and low bytes for your desired minimum and maximum length.
2. Enter data code setting mode
3. Scan the "**Minimum Length (High Byte)**" setting code for that 2D barcode type, then enter the 3-digit high-byte value by scanning the codes from the Numeric Entry Codes Appendix
4. Scan the "**Minimum Length (Low Byte)**" setting code, then enter the 3-digit low-byte value by scanning the codes from the Numeric Entry Codes Appendix
5. Scan the "**Maximum Length (High Byte)**" setting code, then enter the high-byte value by scanning the codes from the Numeric Entry Codes Appendix
6. Scan the "**Maximum Length (Low Byte)**" setting code, then enter the low-byte value by scanning the codes from the Numeric Entry Codes Appendix
7. Exit data code setting mode to save

Example - Set QR Code Length to 20-300 Characters

Goal: Only accept QR Codes that are between 20 and 300 characters long.

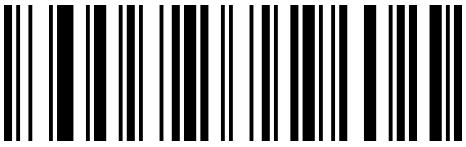
Minimum length = 20

1. Less than 256 → high byte = 0, low byte = 20
2. High Byte → 000
3. Low Byte → 020

Maximum length = 300

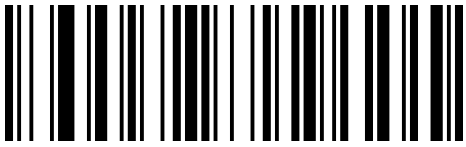
1. High Byte = 300 ÷ 256 = 1 (whole number)
2. Low Byte = 300 − 256 = 44
3. High Byte → 001
4. Low Byte → 044

The setting codes for QR Code length are:



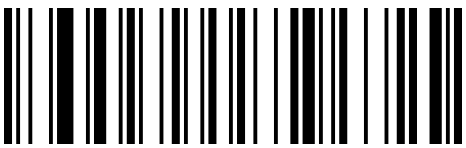
XdZdLa

QR Code Minimum Length (High·Byte)



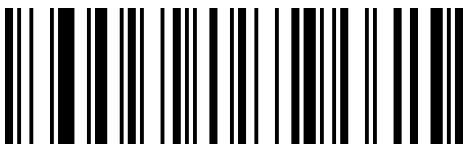
XdYdLa

QR Code Minimum Length (Low Byte)



XdBeLa

QR Code Maximum Length (High Byte)



XdAeLa

QR Code Maximum Length (Low Byte)

Step 1: Enter Data Code Setting Mode

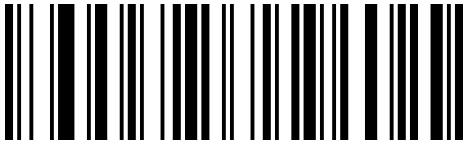
Scan the “Enter/Exit Data Code Setting Mode” code. The scanner will beep three times.

BeReGe

Enter/Exit Data Code Setting Mode

Step 2: Set Minimum Length (High Byte)

Scan the “Minimum Length (High Byte)” code for QR:



XdZdLa

QR Code Minimum Length (High Byte)

Step 3: Enter the Minimum High Byte Value

1. Scan the numeric codes 0, 0, 0 to set the High Byte to 0
    a. Each digit is scanned separately, and the buzzer will emit 1, 2, and 3 beeps respectively

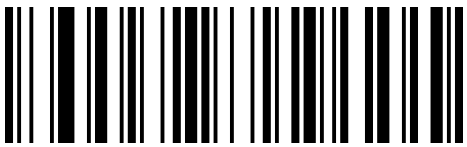
0

0

0

Step 4: Set Minimum Length (Low Byte)

Scan the “Minimum Length (Low Byte)” code for QR:



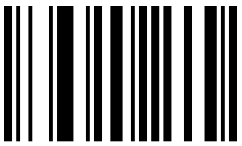
XdYdLa

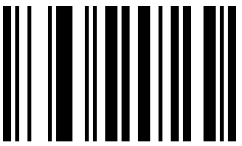
QR Code Minimum Length (Low Byte)

Step 5: Enter the Minimum Low Byte Value

1. Scan the numeric codes 0, 2, 0 to set the low byte to 20.
    a. Each digit is scanned separately, and the buzzer will emit 1, 2, and 3 beeps respectively.

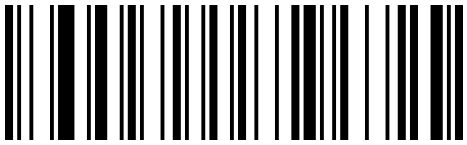

0


2


0

Step 6: Set Maximum Length (High Byte)

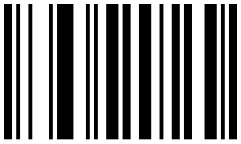
Scan the “Maximum Length (High Byte)” code for QR:

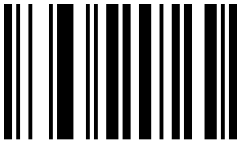

XdBeLa

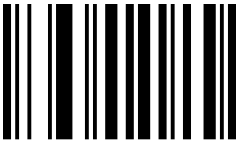
QR Code Maximum Length (High Byte)

Step 7: Enter the Maximum High Byte Value

1. Scan the numeric codes 0, 0, 1 to set the high byte to 1 (for 300)
    a. Each digit is scanned separately, and the buzzer will emit 1, 2, and 3 beeps respectively

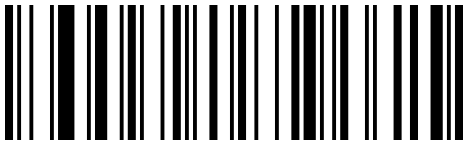

0


0


1

Step 8: Set Maximum Length (Low Byte)

Scan the “Maximum Length (Low Byte)” code for QR:

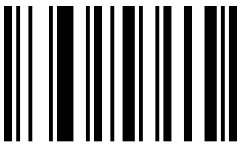

XdAeLa

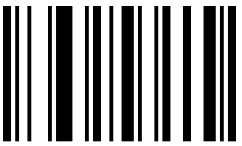
QR Code Maximum Length (Low Byte)

Step 9: Enter the Maximum Low Byte Value

1. Scan the numeric codes 0, 4, 4 to set the low byte to 44.
    a. Each digit is scanned separately, and the buzzer will emit 1, 2, and 3 beeps respectively.


0


4


4

Step 10: Exit Data Code Setting

Scan the “Enter/Exit Data Code Setting Mode” code again. The scanner will beep three times to confirm that the settings have been saved.


BeReGe
Enter/Exit Data Code Setting Mode

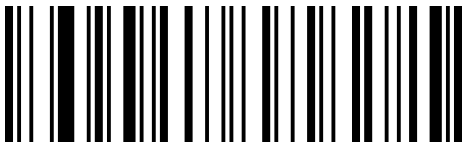
Additional 2- and 5-Digit Codes for UPC / EAN

Some barcodes (like UPC, EAN, and JAN) can have a small extra barcode attached to the main one. This is called an add-on code, and it contains 2 or 5 extra digits, usually printed to the right of the main barcode.

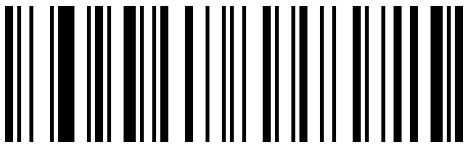
The 2- and 5-digit add-on settings in this section apply to the following barcode types:

- UPC-A
- UPC-E
- EAN-13
- EAN-8

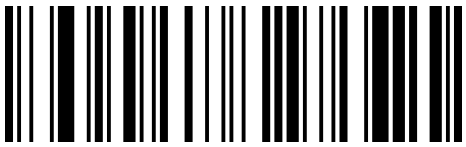
In the picture, the blue area on the left is the main barcode, and the red area on the right is the 2- or 5-digit add-on code. By default, reading of add-on codes is disabled.



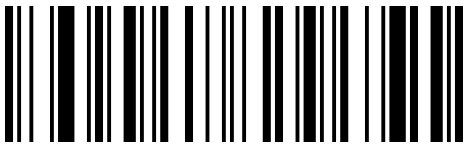
QaIbCb
Enable 2-digit Add-On



QaIbBb
Enable 5-digit Add-On



QaIbSa
Disable 2-digit Add-On**



QaIbRa
Disable 5-digit Add-On**

Mandatory Add-On Codes

When this option is enabled, the scanner will only read barcodes that include a 2- or 5-digit add-on. Barcodes without an add-on will be ignored.

QaIbYa

Mandatory Reading with Add-On Codes

QaIbOa

Not Mandatory

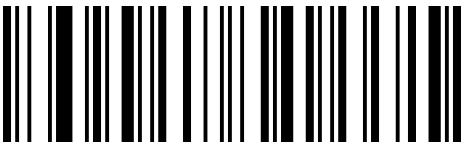
(Read with or without Add-On Codes)**

Add-On Separator

This setting controls whether there is a space between the main barcode data and the add-on data in the output. The factory default is to enable the separator.

QaIbXa

Enable Additional Bit Separator**



QaIbNa

Disable Additional Bit Separator

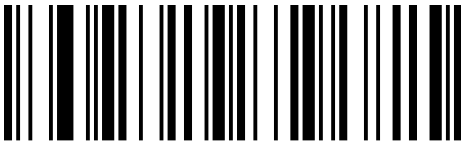
GS Character Substitution

The GS (Group Separator) character is a non-printable ASCII control character used in GS1 barcodes to separate data fields. This feature lets you either leave GS unchanged or replace it with a visible character in the scanner's output, using either basic codes or special codes.

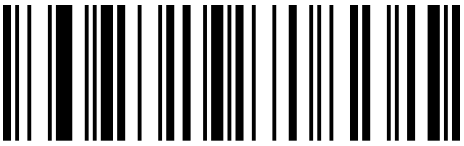
GS Character Substitution with Basic Codes

Use these settings when configuring GS substitution via basic configuration barcodes.

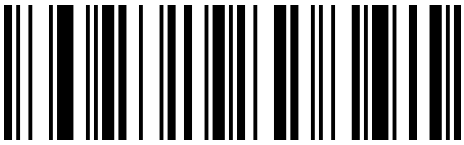
To avoid scanning the wrong code by mistake, cover nearby barcodes while scanning the intended one.



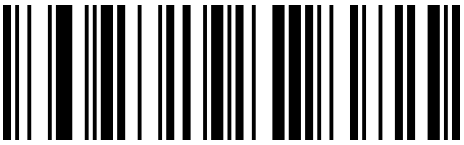
McReLa
No Substitution**



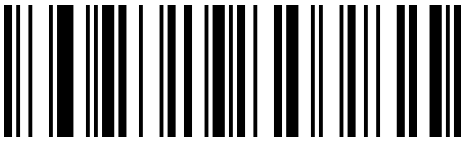
McReFb
Replace With |



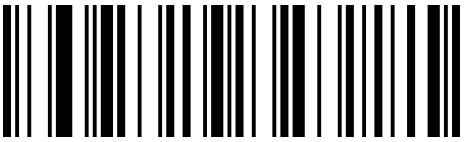
McReZb
Replace With]



McRePb
Replace With ^]



McReTc
Replace With [GS]



McReJc
Replace With <GS>

GS Character Substitution with Special Codes

This function allows you to replace or restore the GS character using special configuration barcodes. To avoid scanning the wrong code by mistake, cover nearby barcodes while scanning the intended one.

1. Scan the “Set GS Character” Barcode

Set GS Character

2. From the Characters’ Barcodes Appendix, scan the barcode for the desired replacement character or setting.

Example: If the GS character is not being detected and you need to restore it, scan barcode below after scanning the “Set GS Character” barcode

To disable this functionality, scan the “Disable Set GS Character” barcode.

Disable Set GS Character

Version Number

Version Number - Scanning Module

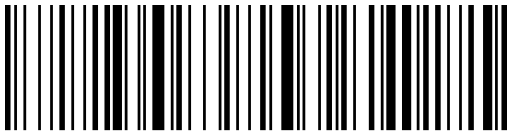
Use this code to view the firmware version of the scanning module. Scan the barcode into a text editor or any text input field to display the version information.

BeReCd

Display Version Number for Scanning Module

Version Number - Wireless/Bluetooth Module

Use this code to view the firmware version of the wireless/Bluetooth module. Scan the barcode into a text editor or any text input field to display the version information.



%%SpecCode39

Display Version Number for Wireless/Bluetooth Module

Part I: Basic Configuration Barcodes

Also referred to as Basic Codes

Setup Code Function

The setup code function controls whether configuration barcodes in Part I: Basic Configuration Barcodes are active. When set to On, scanning a setup code will apply the corresponding configuration. When set to Off, the scanner will still read the setup code, however, it will only emit an error tone and will not apply any configuration. The default setting is On.

RaZdNa

Setup Code Function On**

RaZdXa

Setup Code Function Off

Setup Code Content

This setting controls whether the content of a setup (configuration) code is sent to the host when it is scanned.

- If Send Content is enabled, the scanner will output the setup code content to the connected device.
- If Do not send Content is selected, the scanner will apply the configuration, however, will not send the setup code content.

This is useful if you want to see what a specific configuration code contains, especially when there is no text label printed below it. The default setting is Do not send Content.

WaZaBb

Send Content On

WaZaRa

Send Content Off**

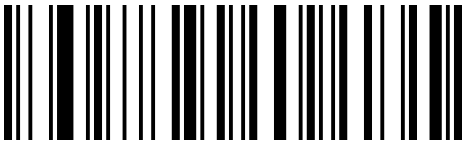
Lights

Scanning Module Lighting

The scanner's lighting provides additional illumination on the barcode to improve reading performance, especially in low ambient light.

GbWaRb
High Brightness**

GbWaHb
Medium Brightness



GbWaXa
Low Brightness

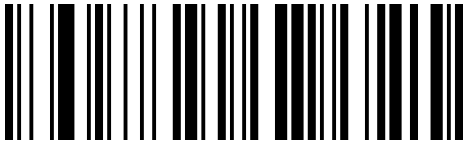
GbWaNa
Light Off

Aiming Light

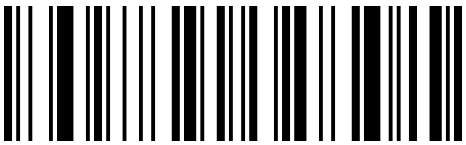
The aiming light helps you quickly locate the barcode and find the best reading distance. You can choose one of the following modes depending on your environment. By default, the aiming light is On.

- **Aiming Light On (default):** The aiming light turns on during scanning and turns off at other times.
- **Aiming Light Off:** The aiming light never turns on.
- **Aiming Light Continuous:** After the scanner is powered on, the aiming light stays on all the time.
- **Aiming Light Flashing:** After the scanner is powered on, the aiming light blinks continuously.

GbWaZa
Aiming Light On**



GbWaPa
Aiming Light Off



GbWaJb
Aiming Light Continuous

GbWaTb
Aiming Light Flashing

Global Inverse Setting

A normal barcode has dark bars on a light background, while an inverted barcode has light bars on a dark background.

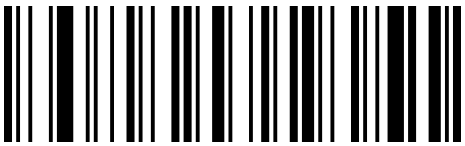
You can choose how the scanner handles these:

- **Normal Only:** The scanner reads only normal (dark-on-light) barcodes
- **Inverse Only:** The scanner reads only inverted (light-on-dark) barcodes
- **Normal + Inverse:** The scanner reads both normal and inverted barcodes

Note: This setting applies globally to all barcode types that do not have their own dedicated Normal/Inverse setting. If a specific barcode type has its own Normal/Inverse option (configured separately in its own section), that setting takes priority and this global setting will not affect it.

CbQdRa

Normal Only**



CbQdLb

Inverse Only

CbQdBb

Normal + Inverse

Decode Centre Area Settings

These settings control which part of the image is used for decoding, helping you read the correct barcode when multiple codes are in view.

ObCcLa
Full Area Decoding**

ObCcPb
Centre Area Decoding

ObCcZb
Centre Mode Decoding

- **Full Area Decoding:** The entire captured image is used for decoding, and only the first barcode read is output
- **Centre Area Decoding:** The center of the barcode must fall inside the defined center area to be read. If multiple barcodes are inside this area, only the first barcode read is output. The default centre area is 60% of the scanner's image detection area (top 20% and bottom 20% excluded, left 20% and right 20% excluded)
- **Centre Mode Decoding:** Only the barcode aligned with the aiming light is read and decoded

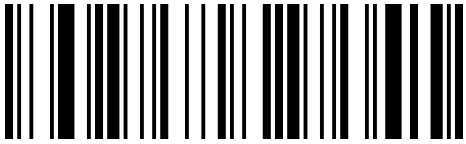
Prompt for Unsuccessful Reading

When a barcode is not successfully read, the scanner can send an NR (NO READ) message. Any valid prefix or suffix can be added to this message.

- **NR Message On:** When reading fails and the trigger is released or the reading time expires, an NR (NO READ) message is sent. A custom prefix or suffix can be added to this message
- **NR Message Off:** When reading fails, no NR (NO READ) message is sent

SaCbCb

NR Message On



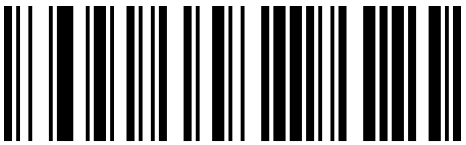
SaCbSa

NR Message Off**

QR URL Code

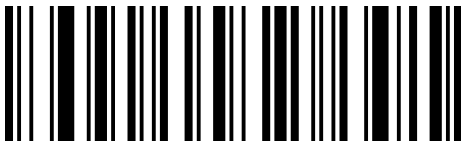
Use this setting to enable or disable reading QR codes that contain a URL. This does not affect QR codes without a URL.

Scan the configuration barcode below to turn the QR URL feature On or Off:



WaQbPa

QR URL Codes On**



WaQbZa

QR URL Codes Off

Caps Lock Status Setting

These options control how the scanner handles Caps Lock so that the case of the scanned data stays correct on the receiving device.

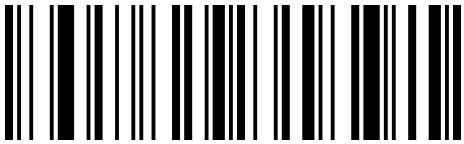
- **Automatically Disable Caps Lock:** Use this if your set up expects normal typing (Caps Lock usually off). The scanner temporarily turns Caps Lock off while sending data so the case is correct, then puts Caps Lock back the way it was.
- **Automatically Enable Caps Lock:** Use this if your set up expects Caps Lock to be on (for example, always uppercase). The scanner temporarily turns Caps Lock on while sending data so the case is correct, then restores the previous Caps Lock state.
- **Caps Lock Hold:** The scanner does not try to correct Caps Lock. If Caps Lock is on, letters are flipped (what should be lower becomes UPPER, and vice versa). If Caps Lock is Off, data is sent as-is.

IbReQa

Automatically Disable Caps Lock**

IbReAb

Automatically Enable Caps Lock



IbReKb

Caps Lock Hold

Scanning mode - Manual (Trigger) Mode

You can set the scanner's scanning mode according to your needs. In Manual (Trigger) mode, the scanner starts scanning only when you press the trigger button. Scanning stops when a code is successfully read or when you release the trigger.

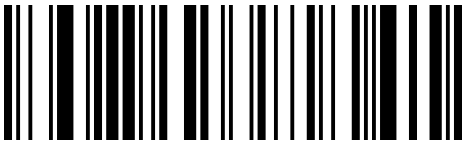
The default scanning mode is Manual (Trigger) Mode.

VbBeJb

Manual (Trigger) Mode**

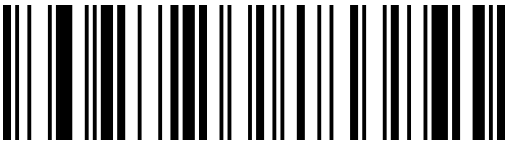
Manual - Trigger Timeout

This sets the maximum time the scanner keeps scanning after you press the trigger. When the timeout is reached, the scanner stops scanning and waits for the next trigger press, even if you keep holding the button.



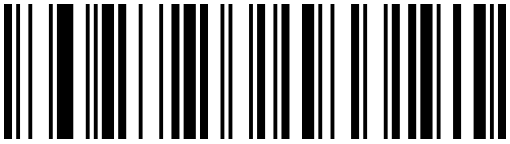
UaZcCb

Infinite Manual Trigger Timeout



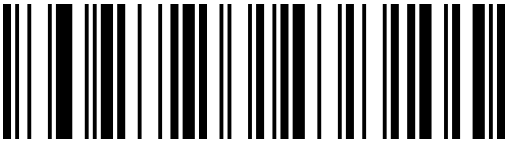
MdZcAbc

Manual Trigger Timeout 3 S**



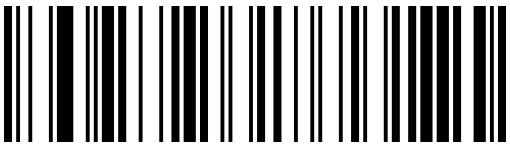
MdZcKbc

Manual Trigger Timeout 5 S



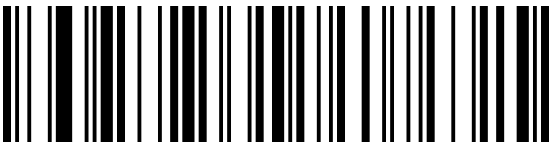
MdZcJcc

Manual Trigger Timeout 10 S



MdZcIdc

Manual Trigger Timeout 15 S



MdZcVaHa

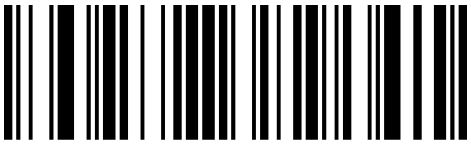
Manual Trigger Timeout 20 S

Manual - Trigger Button Exit Delay

This sets a delay after you release the trigger before scanning stops.

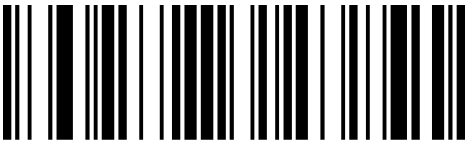
- If a barcode is read within this delay, scanning stops immediately after the successful read
- If no barcode is read within this delay, scanning ends when the delay expires and the scanner waits for the next trigger

The default is 0 ms, so scanning stops as soon as you release the button.



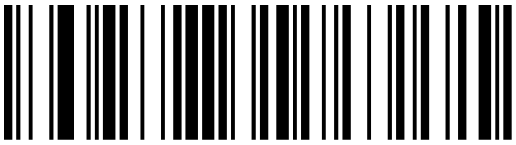
MdPcLa

Manual Trigger Button Exit Delay 0 ms**



MdPcJc

Manual Trigger Button Exit Delay 250 ms

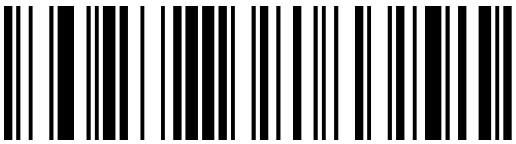


MdPcVac

Manual Trigger Button Exit Delay 500 ms

MdPcAbc

Manual Trigger Button Exit Delay 750 ms



MdPcFbc

Manual Trigger Button Exit Delay 1000 ms

Scanning mode - Continuous Mode

In Continuous mode, the scanner keeps working without needing the trigger. It starts scanning immediately, and after each scan it waits for a set time, then automatically starts the next scan.

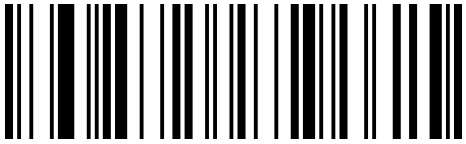
- The engine scans until a barcode is read or the single-scan time is reached
- After that, it waits for the configured interval, then starts scanning again
- You can press the trigger to pause/resume scanning at any time

VbBeZa

Continuous Mode

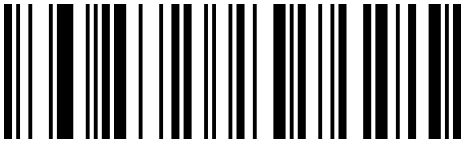
Continuous - Same Barcode Scanning Delay

This sets how long the scanner waits before it is allowed to read the same barcode again in Continuous mode. Default: 400 ms.



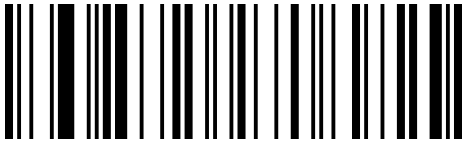
JdHeLa

Same Barcode Scanning without Delay



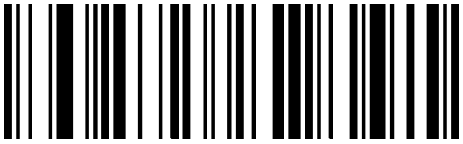
JdHeVa

Same Barcode Scanning Delay 100 ms



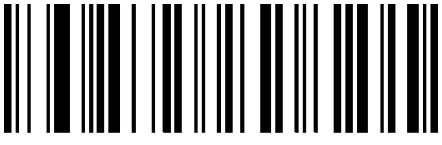
JdHeFb

Same Barcode Scanning Delay 200 ms



JdHePb

Same Barcode Scanning Delay 300 ms



JdHeZb

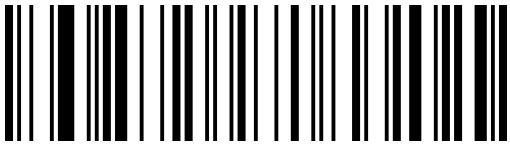
Same Barcode Scanning Delay 400 ms**

JdHeJc

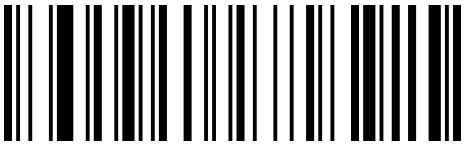
Same Barcode Scanning Delay 500 ms

JdHeNd
Same Barcode Scanning Delay 800 ms

JdHeXac
Same Barcode Scanning Delay 1200 ms



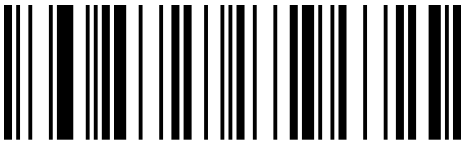
JdHeFbc
Same Barcode Scanning Delay 2000 ms



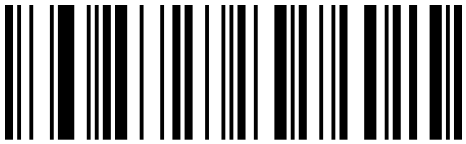
RaHeCb
Same Barcode Scanning No Timeout

Continuous - Different Barcode Reading Delay

This sets a minimum interval between reading different barcodes.
After one barcode is read, the scanner will ignore any different barcode that appears during the set delay. It will only read a new (different) barcode after this time has passed or after a power cycle. Default: 300 ms. Valid in Continuous and Induction (auto-sensing) modes.



JdIeLa
Different Barcode Reading Without delay



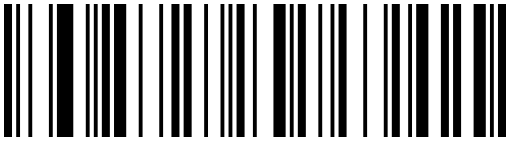
JdIeVa
Different Barcode Reading Delay 100 ms

JdIePb
Different Barcode Reading Delay 300 ms**

JdIeJc
Different Barcode Reading Delay 500 ms

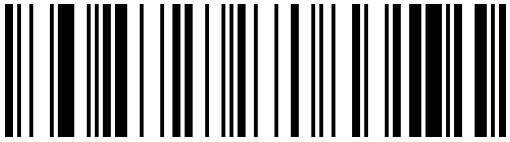
JdIeTc
Different Barcode Reading Delay 600 ms

JdIeNd
Different Barcode Reading Delay 800 ms



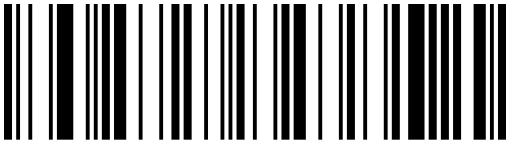
JdIeVac

Different Barcode Reading Delay 1000 ms



JdIeFbc

Different Barcode Reading Delay 2000 ms

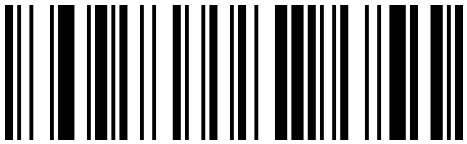


JdIeJcc

Different Barcode Reading Delay 5000 ms

Scanning Mode - Autosense Mode

In Autosense mode, the scanner automatically starts scanning when it detects movement or a barcode in front of the scanner's camera. The trigger can still be used. However, after about 3 seconds, the scanner returns to Autosense mode and waits for the next barcode.



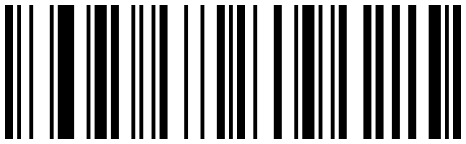
VbBePa
Autosense Mode

Note: The scanner activates on any movement detected in front of the camera, not only barcodes. Placing your hand, finger, or any other item in front of the camera will turn the scanner on.

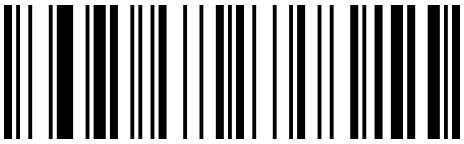
Autosense - Continuous Reading mode

This setting controls whether the illumination stays on briefly after a successful read.

- **Continuous Reading Off (default):** After a barcode is read, the illumination turns off immediately, and the scanner waits for the next barcode to trigger Autosense again.
- **Continuous Reading On:** After a barcode is read, the illumination stays on for about 5 seconds before turning off, then the scanner waits for the next barcode to trigger Autosense.



ZaCeRa
Continuous Reading Off**



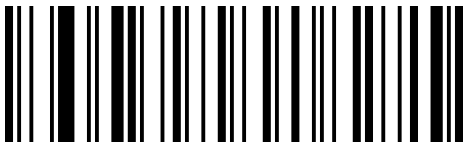
ZaCeBb
Continuous Reading On

Autosense - Image Stabilization Time

After each scan, the scanner needs a short time to adapt to changes in the scene before it returns to Autosense (detection) mode. This image stabilization time controls how long that adaptation takes: shorter times make it react faster, longer times make it more stable in changing environments.

OdCbVa

Image Stabilization Time 100 ms



OdCbFb

Image Stabilization Time 200 ms

OdCbPb

Image Stabilization Time 300 ms

OdCbZb

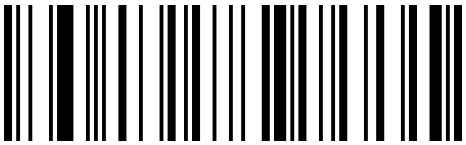
Image Stabilization Time 400 ms

OdCbJc

Image Stabilization Time 500 ms**

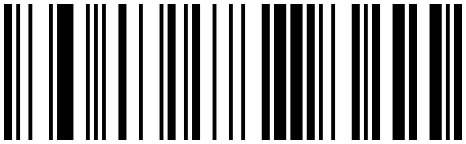
Autosense - Sensitivity

Sensitivity defines how much change in the scene is needed to wake the scanner from monitoring to scanning. Higher sensitivity reacts to smaller movements. Lower sensitivity requires larger changes.



AcDbVa
High Sensitivity**

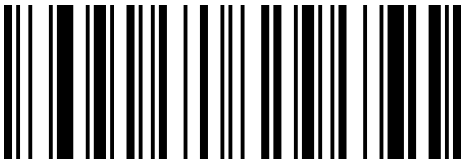
AcDbFb
Medium Sensitivity



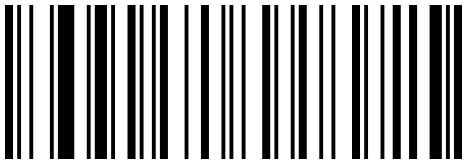
AcDbPb
Low Sensitivity

Code ID Prefix

You can add a Code ID prefix before the scanned data to identify which barcode type was read. See the Code ID & AIM ID Appendix for the Code ID used by each symbology. By default, no Code ID is added.



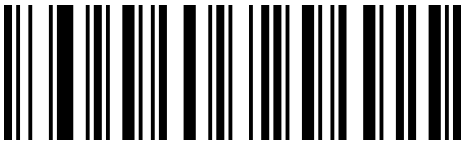
WaFbRa
Code ID Off**



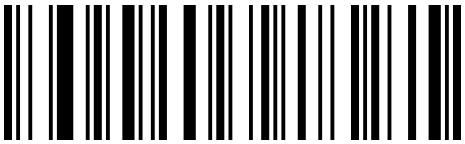
WaFbBb
Code ID On

AIM ID Prefix

You can also add an AIM ID prefix before the scanned data. AIM (Association for Automatic Identification and Mobility) defines standard IDs for each barcode type. The mapping is listed in the Code ID & AIM ID Appendix.



QaXdQa
AIM ID Off**



QaXdAb
AIM ID On

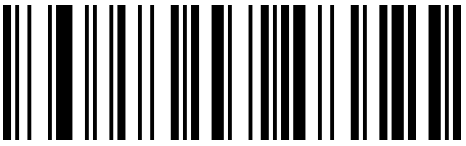
Start STX and End ETX Settings

The scanner can be configured to add ASCII control characters at the start and/or end of each transmitted data packet. By default, no start or end character is added.

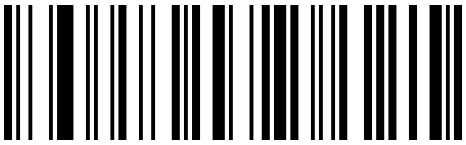
When enabled, the scanner uses the following ASCII control characters:

- **STX** (Start of Text, Ctrl+B): inserted at the beginning of the data
- **ETX** (End of Text, Ctrl+C): inserted at the end of the data

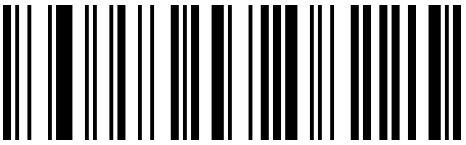
BbKdPa
No Start or End Characters**



BbKdJb
Start Character STX



BbKdZa
End Character ETX



BbKdTb
Start and End Characters STX + ETX

Parentheses Around GS1 Application Identifiers (GS1 AIs)

When this option is enabled, the scanner adds parentheses around each GS1 Application Identifier (AI) in the output.

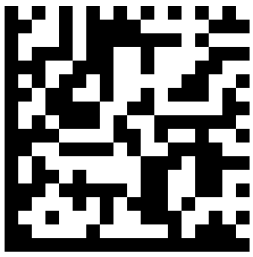
- **GS1 AIs On:** Adds "(" before and ")" after every GS1 AI in the data
- **GS1 AIs Off (default):** Outputs the GS1 AIs as plain digits, without parentheses

These only change how the GS1 AIs are displayed in the output, not the data itself.

XeHeYa
GS1 AIs On

XeHeOa
GS1 AIs Off**

Example - GS1 DataMatrix / GS1 QR Code With GS1 AIs



(01) 0 0614141 99999 6 (90) 1234567890

With parentheses On: (01) 00614141999996 (90) 1234567890

With parentheses Off: 0100614149999969012345678 90

Barcode Type Settings

Each barcode type has its own specific properties, and the scanner can be configured to handle them using the setup codes in this section. When fewer barcode types are enabled, the scanner can process barcodes faster. For best performance, turn off any barcode types that you do not need.

Global Settings

To avoid scanning the wrong code by mistake, cover nearby barcodes while scanning the intended one.

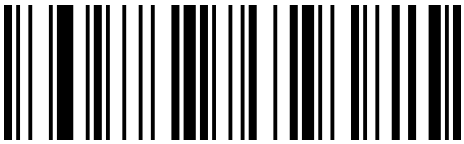
GbYaXa
All Barcode Types On

GbYaHb
All Barcode Types Off

GbYaZa
1D Barcodes On

GbYaJb
1D Barcodes Off

GbYaBb
2D Barcodes On



GbYaLb
2D Barcodes Off

Note: Turning off all barcode types does not disable the setup codes, and postal codes are not affected. Do not enable more than one postal code type at the same time. When “All Barcode Types On” is used, compound codes, 2D postal codes, and add-on codes are still disabled and must be configured separately if needed.

UPC-A

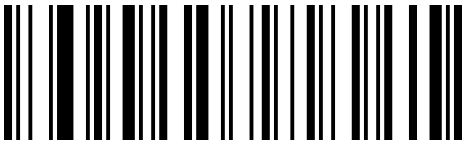
QaYaBb
UPC-A On**

QaYaRa
UPC-A Off

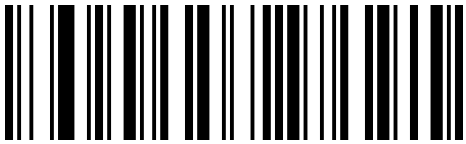
Note: UPC-A is also known as UCC-12.

Transmit Check Character

UPC-A barcodes always have 12 digits, and the 12th digit is the check character used to verify that the data is correct. By default, the scanner includes (transmits) this check character.



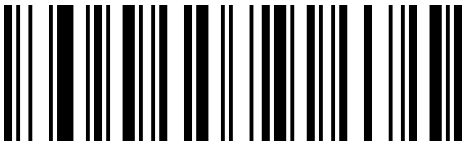
QaTdCb
Transmit UPC-A Check Character On**



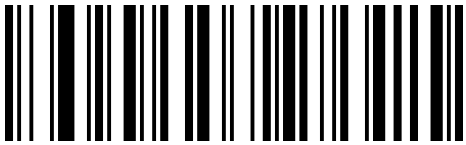
QaTdSa
Transmit UPC-A Check Character Off

Transmit System Character

The system character (leading digit) is the first digit of the UPC-A code and indicates the number system (for example, regular item, coupon, etc.). By default, the scanner transmits this digit.



QaTdWa
Transmit UPC-A System Character On**



QaTdMa
Transmit UPC-A System Character Off

Convert to EAN-13

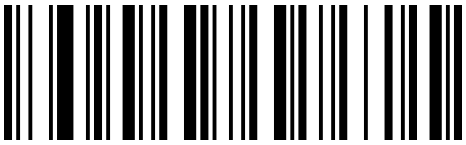
UPC-A can be expanded to EAN-13 by adding a leading zero, so the barcode is output as 13 digits instead of 12. By default, conversion is disabled.

QaTdVa
Convert UPC-A to EAN-13 On

QaTdLa
Convert UPC-A to EAN-13 Off**

UPC-E

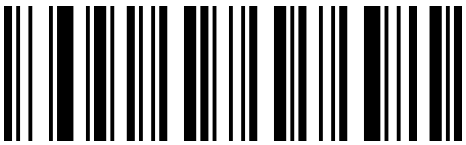
UPC-E0



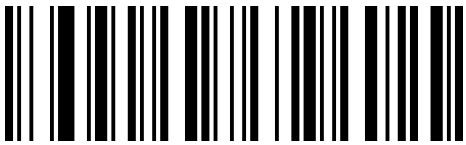
QaYaVa
UPC-E0 On**

QaYaLa
UPC-E0 Off

UPC-E1



WaYaVa
UPC-E1 On

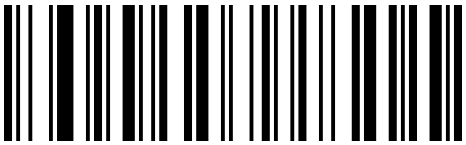


WaYaLa
UPC-E1 Off**

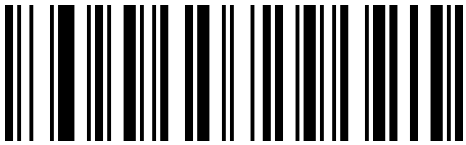
Note: UPC-E1 is a variation of UPC-E that uses number system 1. To read UPC-E1, UPC-E0 must also be enabled.

Transmit Check Character

UPC-E barcodes have 8 digits, and the 8th digit is the check character, used to verify that the data is correct. By default, the scanner includes (transmits) this check character.



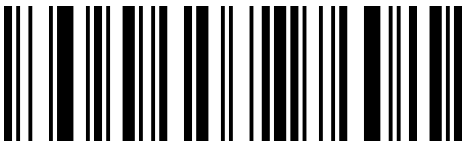
QaTdBb
Transmit UPC-E Check Character On**



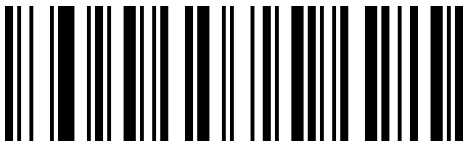
QaTdRa
Transmit UPC-E Check Character Off

Transmit System Character

The system character (number system) is a prefix that identifies the country/number system of the UPC-E code. For example, 0 typically indicates the USA/Canada.



QaTdYa
Transmit System Character On**



QaTdOa
Transmit System Character Off

Convert to UPC-A

UPC-E can be expanded to a full 12-digit UPC-A code. When this option is enabled, the scanner converts UPC-E barcodes to their equivalent UPC-A representation. By default, conversion is disabled.

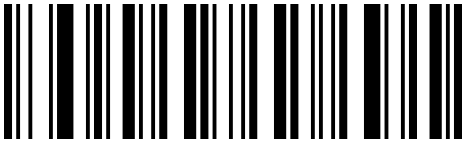
QaTdAb

Convert UPC-E to UPC-A On

QaTdQa

Convert UPC-E to UPC-A Off**

EAN/JAN-8



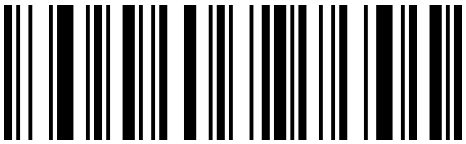
QaYaZa
EAN/JAN-8 On**

QaYaPa
EAN/JAN-8 Off

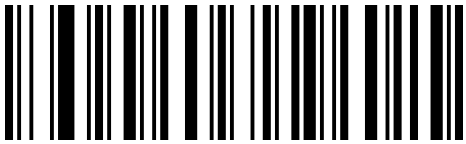
Note: EAN-8 is also known as JAN-8 or UCC-8.

Transmit Check Character

EAN/JAN-8 barcodes always have 8 digits, and the 8th digit is the check character, used to verify that the data is correct. By default, the scanner includes (transmits) this check character.



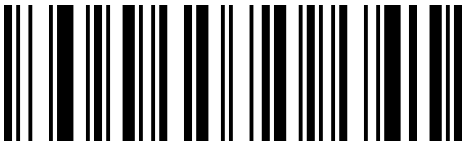
QaXdVa
Transmit EAN/JAN 8 Check Character On**



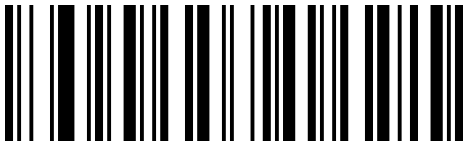
QaXdLa
Transmit EAN/JAN 8 Check Character Off

Convert to EAN-13

EAN-8 can be expanded to EAN-13 by converting the 8-digit code to a 13-digit representation. When this option is enabled, the scanner outputs 13 digits and reports the type as EAN-13. By default, conversion is disabled.

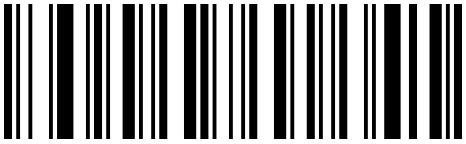


QaTdXa
Convert EAN-8 to EAN-13 On

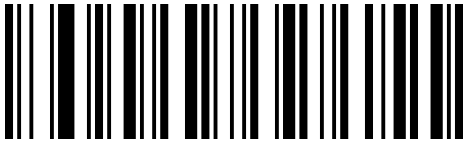


QaTdNa
Convert EAN-8 to EAN-13 Off**

EAN/JAN-13



QaYaWa
EAN/JAN-13 On**

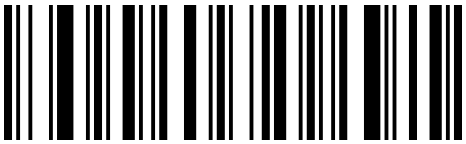


QaYaMa
EAN/JAN-13 Off

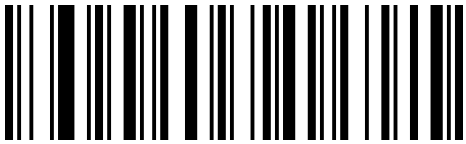
Note: EAN-13 is also known as JAN-13 or UCC-13.

Transmit Check Character

EAN/JAN-13 barcodes always have 13 digits, and the 13th digit is the check character used to verify that the data is correct. By default, the scanner includes (transmits) this check character.



QaXdXa
Transmit EAN/JAN-13 Check Character On**

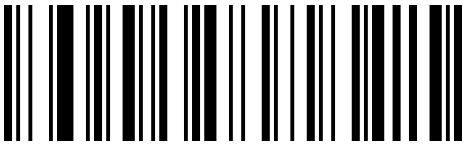


QaXdNa
Transmit EAN/JAN-13 Check Character Off

ISBN

ISBN is the International Standard Book Number used for books. It is represented using a special form of the EAN-13 code.

- When ISBN mode is Off, ISBN barcodes are output as standard EAN-13
- When ISBN mode is On, the scanner outputs the ISBN book code format instead (10-digit / legacy format), and the check digit must be verified

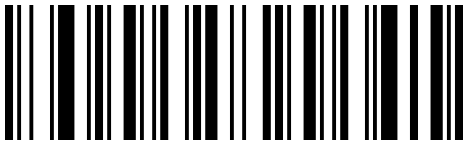


QaJbCb
ISBN Mode On

QaJbSa
ISBN Mode Off**

Transmit Check Character

QaJbAb
Transmit ISBN Check Character On

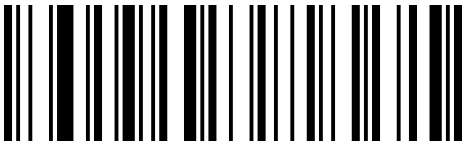


QaJbQa
Transmit ISBN Check Character Off**

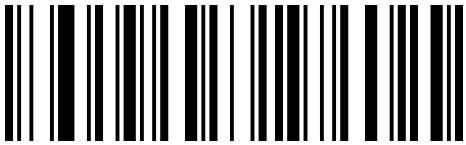
ISSN

ISSN (International Standard Serial Number) is used for magazines and other serial publications, also encoded as a special form of EAN-13.

- When ISSN mode is Off, ISSN barcodes are output as standard EAN-13
- When ISSN mode is On, the scanner outputs the ISSN code format instead, and the 8th digit is used as the check character



RaVcCb
ISSN On



RaVcSa
ISSN Off**

Transmit Check Character

RaVcAb
Transmit ISSN Check Character On

RaVcQa
Transmit ISSN Check Character Off**

UPC/EAN Comprehensive Settings

UPC/EAN GTIN Settings

Use this setting to control whether UPC/EAN barcodes are output in standard GTIN format.

QaTdZa
GTIN Format On

QaTdPa
GTIN Format Off**

Example GTIN Outputs:

Barcode Type	Barcode	GTIN Format Output
UPC-A (UCC-12)		00612345678907
EAN-13 (UCC-13)		00614141999996
EAN-8 (UCC-8)		00000021234569
ITF14		10614141999993

Coupon

UPC-A and EAN-13 barcodes can be used together with GS1-128 to encode coupon information.

There are two coupon styles:

1. UPC-A + GS1-128 starting with 5
    a. Enabled with UPC-A Coupon On
    b. When this is On, standard UPC-A codes starting with 5 are not recognized, and GS1-128 codes starting with 810 or 8110 are not recognized

2. EAN-13 + GS1-128 starting with 99
    a. Enabled with EAN-13 (99) Coupon On (requires UPC-A Coupon On first)
    b. When this is On, standard EAN-13 codes starting with 99 are not recognized, and GS1-128 codes starting with 810 or 8110 are not recognized

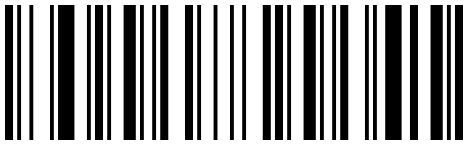
UPC-A Coupon

QaZaAb
UPC-A Coupon On

QaZaQa
UPC-A Coupon Off**

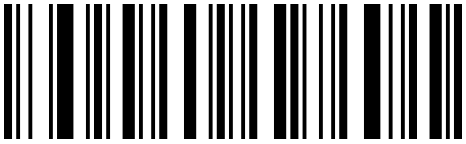
EAN-13 (99) Coupon

QaGbAb
EAN-13 (99) Coupon On



QaGbQa
EAN-13 (99) Coupon Off**

Code 128

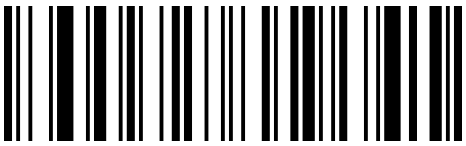


QaXaYa
Code 128 On**

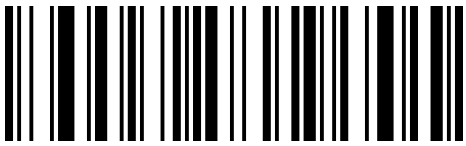
QaXaOa
Code 128 Off

Number of Recognized Characters (Minimum and Maximum limits)

You can limit Code 128 decoding by length. The default allowed range is 0-80 characters. The scanner can be set to read only Code 128 barcodes whose length is between (and including) the minimum and maximum.



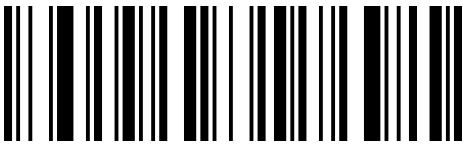
XdIbLa
Code 128 Minimum Length



XdJbLa
Code 128 Maximum Length

Setting steps: See Barcode Length Settings - 1D Barcode Length Settings.

GS1-128(UCC/EAN 128)



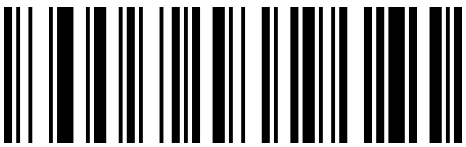
RaYcVa
GS1-128 On**

RaYcLa
GS1-128 Off

Note: GS1-128 is also known as EAN-128, UCC-128, or UCC/EAN-128.

Number of Recognized Characters (Minimum and Maximum limits)

You can limit GS1-128 decoding by length. The default allowed range is 0-80 characters. The scanner can be set to read only GS1-128 barcodes whose length is between (and including) the minimum and maximum.



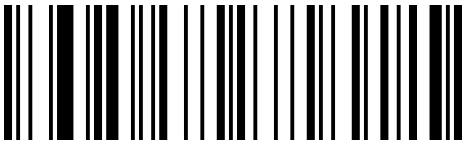
XdKbLa
GS1-128 Minimum Length

XdLbLa
GS1-128 Maximum Length

Setting steps: See Barcode Length Settings - 1D Barcode Length Settings.

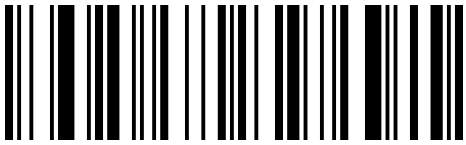
ISBT 128

ISBT 128 Connect Function



TaCeCb

ISBT 128 Connect Function On

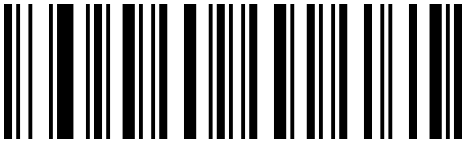


TaCeSa

ISBT 128 Connect Function Off**

Note: ISBT 128 is a healthcare/blood-bank standard based on Code 128. It can be enabled or disabled using the Code 128 setting. The ISBT 128 connect function controls whether the scanner reads ISBT 128 barcodes that include additional “linked” segments. When enabled, the scanner can read ISBT 128 barcodes with or without extra segments.

Code 39



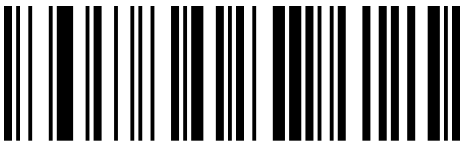
QaXaWa
Code 39 On**

QaXaMa
Code 39 Off

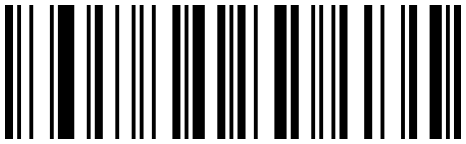
Check Character

Code 39 barcodes can optionally include a check character as the last character of the data. This character is calculated from the other characters and can be used to verify that the data is correct.

- **Code 39 No Check Digit (default):** The scanner does not validate a check character. If a final character is present, it is always treated and transmitted as normal data, even if it is a valid check character
- **Code 39 Check and Transmit:** The barcode must contain a valid check character. The scanner verifies it and includes the check character in the output
- **Code 39 Check but Do Not Transmit:** The barcode must contain a valid check character. The scanner verifies it, however, it does not include the check character in the output



IbNePa
Code 39 No Check Digit**

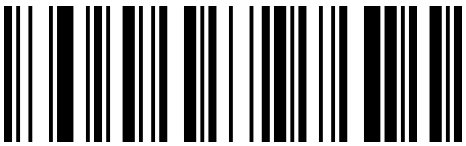


IbNeZa
Code 39 Check and Transmit Digit

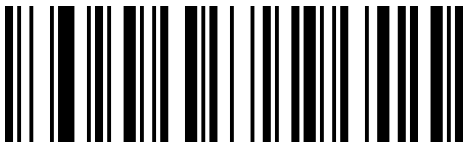
IbNeJb
Code 39 Check but Do Not Transmit Digit

Start and End Characters

Code 39 uses an asterisk "*" at the beginning and end of the symbol as start and stop characters. You can choose whether to transmit these characters with the data.



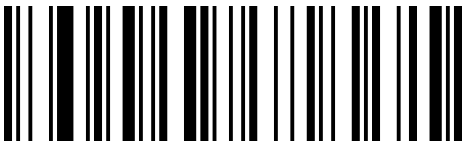
QaVdVa
Transmit Start/End Characters On



QaVdLa
Transmit Start/End Characters Off**

Full ASCII Characters

Standard Code 39 supports a limited character set. Full ASCII Code 39 extends this to the full ASCII character set by encoding some characters as pairs. By default, the scanner does not decode the full ASCII set.

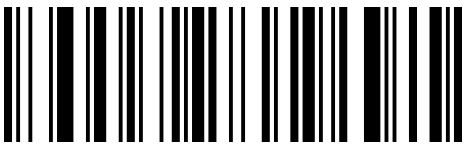


QaYaCb
Full ASCII On

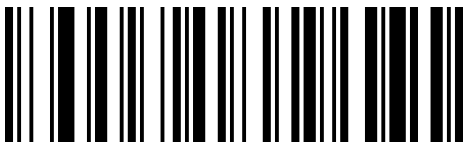
QaYaSa
Full ASCII Off**

Number of Recognized Characters (Minimum and Maximum limits)

You can limit Code 39 decoding by length. The default allowed range is 0-48 characters. The scanner can be set to read only Code 39 barcodes whose length is between (and including) the minimum and maximum.



XdMbLa
Code 39 Minimum Length

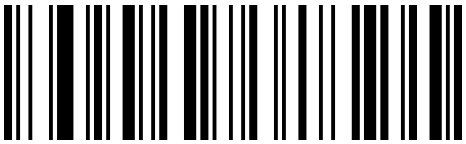


XdNbLa
Code 39 Maximum Length

Setting steps: See Barcode Length Settings - 1D Barcode Length Settings.

Code 32 (Pharmaceutical / PARAF)

Code 32 (also called Code 32 Pharmaceutical, Italian Pharmacode, or PARAF) is a variant of Code 39 used to identify pharmaceutical products in Italy. It encodes 8 numeric digits plus a check digit and is typically shown with a leading “A” in the human-readable text.

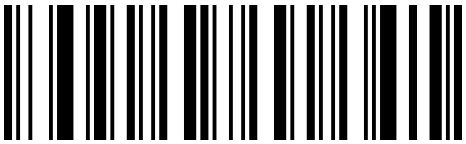


QaYaAb
Code 32 On

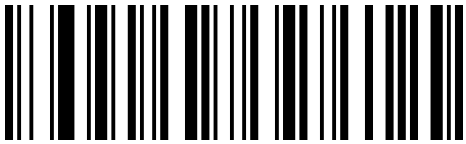
QaYaQa
Code 32 Off**

Transmit Check Character

Code 32 includes a check digit calculated from the numeric data (mod 10). You can choose whether the scanner sends this check digit in the output.



WaYaWa
Transmit Code 32 Check Character On**

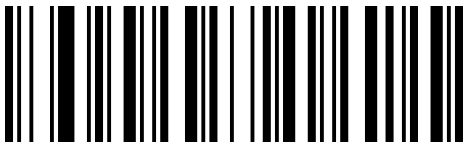


WaYaMa
Transmit Code 32 Check Character Off

Code 32 Prefix “A”

Some systems expect Code 32 values to start with an “A” in the output, even though this “A” is not part of the encoded numeric data. Use this option to automatically add or suppress the “A” prefix.

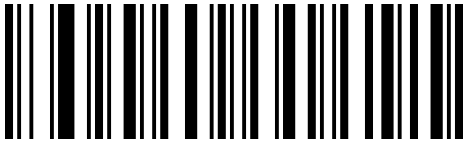
QaVdXa
Add Code 32 “A” Prefix On



QaVdNa
Add Code 32 “A” Prefix Off**

Code 93

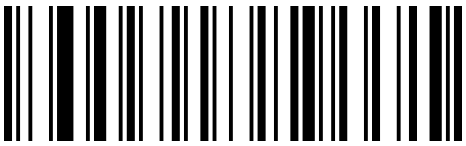
QaXaXa
Code 93 On**



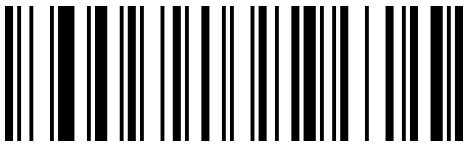
QaXaNa
Code 93 Off

Number of Recognized Characters (Minimum and Maximum limits)

You can limit Code 93 decoding by length. The default allowed range is 0-80 characters. The scanner can be set to read only Code 93 barcodes whose length is between (and including) the minimum and maximum values.



XdEcLa
Code 93 Minimum Length



XdFcLa
Code 93 Maximum Length

Setting steps: See Barcode Length Settings - 1D Barcode Length Settings.

Code 11

QaWaYa
Code 11 On

QaWaOa
Code 11 Off**

Note: Code 11 is also known as USD-8

Check Character

Code 11 can use one or two check characters at the end of the data. Each check character is calculated from the other characters and used to verify that the data is correct.

SbOeXa
Code 11 - 1 Check Character On

SbOeNa
Code 11 - 2 Check Characters On**

SbOeRb
Code 11 - 1 Check Character Off

SbOeHb
Code 11 - 2 Check Characters Off

SbOeBc
All Code 11 Check Characters Off

Number of Recognized Characters (Minimum and Maximum limits)

You can limit Code 11 decoding by length. The default allowed range is 4-80 characters. The minimum and maximum allowed setting range is 1-80. The scanner can be set to read only Code 11 barcodes whose length is between (and including) the minimum and maximum values.

XdObLa

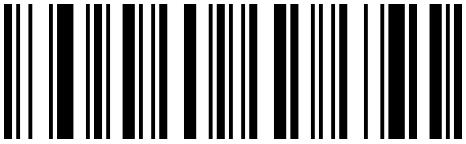
Code 11 Minimum Length

XdPbLa

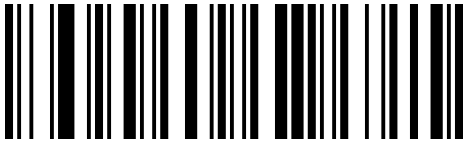
Code 11 Maximum Length

Setting steps: See Barcode Length Settings - 1D Barcode Length Settings.

Codabar (NW-7)



QaXaZa
Codabar On**



QaXaPa
Codabar Off

Check Character

Codabar barcodes can optionally include a check character as the last character of the data. This character is calculated from the other characters and can be used to verify that the data is correct.

- **Codabar No Check Digit (default):** The scanner does not validate a check character. If a final character is present, it is always treated and transmitted as normal data, even if it is a valid check character.
- **Codabar Check and Transmit:** The barcode must contain a valid check character. The scanner verifies it and includes the check character in the output.
- **Codabar Check but Do Not Transmit:** The barcode must contain a valid check character. The scanner verifies it, however, it does not include the check character in the output.

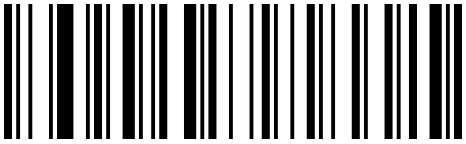
IbNeRa
Codabar No Check Digit**

IbNeBb
Codabar Check and Transmit Digit

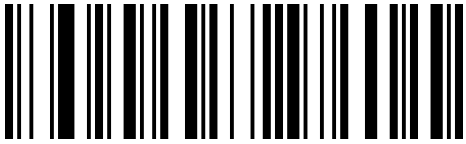
IbNeLb
Codabar Check but Do Not Transmit Digit

Start and End Characters

Codabar uses special start and end characters to mark the beginning and end of the code. You can choose whether the scanner sends these characters in the output.



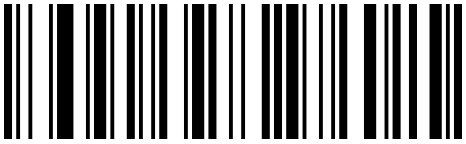
QaVdCb
Transmit Start/End Characters On



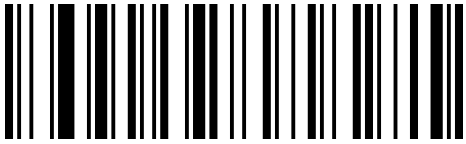
QaVdSa
Transmit Start/End Characters Off**

Start and End Characters Format

The Codabar start and end characters can be one of the letters A, B, C, or D. The end character can also be one of T, N, *, or E. This setting defines which set of characters is allowed for start and end.



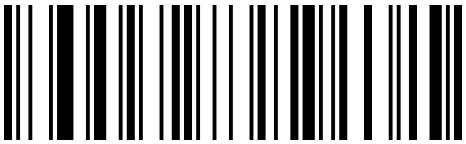
WaMbSa
ABCD/ABCD**



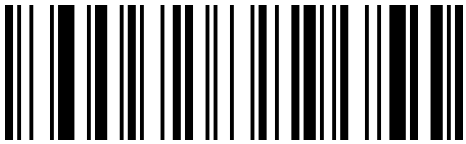
WaMbCb
ABCD/TN*E

Number of Recognized Characters (Minimum and Maximum limits)

You can limit Codabar decoding by length. The default allowed range is 4-60 characters. The minimum and maximum allowed setting range is 2-60. The scanner can be set to read only Codabar barcodes whose length is between (and including) the minimum and maximum values.



XdGcLa
Codabar Minimum Length



XdHcLa
Codabar Maximum Length

Setting steps: See Barcode Length Settings - 1D Barcode Length Settings.

Interleaved 2 of 5

QaXaAb
Interleaved 2 of 5 On**

QaXaQa
Interleaved 2 of 5 Off

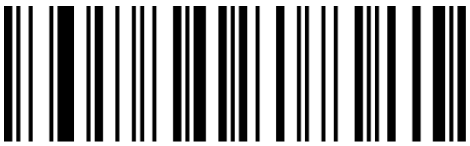
Check Character

Interleaved 2 of 5 barcodes can optionally include a check character as the last character of the data. This character is calculated from the other characters and can be used to verify that the data is correct.

- **Interleaved 2 of 5 No Check Digit (default):** The scanner does not validate a check character. If a final character is present, it is always treated and transmitted as normal data, even if it is a valid check character.
- **Interleaved 2 of 5 Check and Transmit:** The barcode must contain a valid check character. The scanner verifies it and includes the check character in the output.
- **Interleaved 2 of 5 Check but Do Not Transmit:** The barcode must contain a valid check character. The scanner verifies it, however, it does not include the check character in the output.

IbNeNa
Interleaved 2 of 5 No Check Digit**

IbNeXa
Interleaved 2 of 5 Check and Transmit Digit

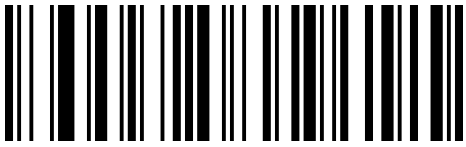


IbNeHb
Interleaved 2 of 5 Check but Do Not Transmit

Number of Recognized Characters (Minimum and Maximum limits)

You can limit Interleaved 2 of 5 decoding by length. The default allowed range is 2-80 characters. The scanner can be set to read only Interleaved 2 of 5 barcodes whose length is between (and including) the minimum and maximum values.

XdSbLa
Interleaved 2 of 5 Minimum Length



XdTbLa
Interleaved 2 of 5 Maximum Length

Setting steps: See Barcode Length Settings - 1D Barcode Length Settings.

Matrix 2 of 5

QaWaAb

Matrix 2 of 5 On**

QaWaQa

Matrix 2 of 5 Off

Check Character

Matrix 2 of 5 barcodes can optionally include a check character as the last character of the data. This character is calculated from the other characters and can be used to verify that the data is correct.

- **Matrix 2 of 5 No Check Digit (default):** The scanner does not validate a check character. If a final character is present, it is always treated and transmitted as normal data, even if it is a valid check character.
- **Matrix 2 of 5 Check and Transmit:** The barcode must contain a valid check character. The scanner verifies it and includes the check character in the output.
- **Matrix 2 of 5 Check but Do Not Transmit:** The barcode must contain a valid check character. The scanner verifies it, however, it does not include the check character in the output.

AbBbRa

Matrix 2 of 5 No Check Digit**

AbBbBb

Matrix 2 of 5 Check and Transmit

AbBbLb

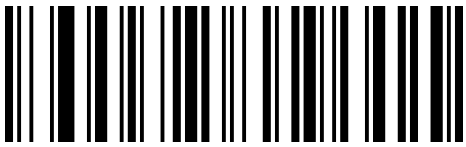
Matrix 2 of 5 Check but Do Not Transmit

Number of Recognized Characters (Minimum and Maximum limits)

You can limit Matrix 2 of 5 decoding by length. The default allowed range is 4-80 characters. The minimum and maximum allowed setting range is 1-80. The scanner can be set to read only Matrix 2 of 5 barcodes whose length is between (and including) the minimum and maximum values.

XdYbLa

Matrix 2 of 5 Minimum Length

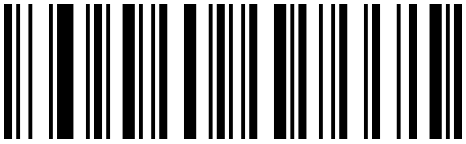


XdZbLa

Matrix 2 of 5 Maximum Length

Setting steps: See Barcode Length Settings - 1D Barcode Length Settings.

Industrial 2 of 5



QaXaVa
Industrial 2 of 5 On**

QaXaLa
Industrial 2 of 5 Off

Note: Industrial 2 of 5 is also known as Straight 2 of 5

Number of Recognized Characters (Minimum and Maximum limits)

You can limit Industrial 2 of 5 decoding by length. The default allowed range is 4-48 characters. The minimum and maximum allowed setting range is 1-48. The scanner can be set to read only Industrial 2 of 5 barcodes whose length is between (and including) the minimum and maximum values.

XdUbLa
Industrial 2 of 5 Minimum Length

XdVbLa
Industrial 2 of 5 Maximum Length

Setting steps: See Barcode Length Settings - 1D Barcode Length Settings.

Standard 2 of 5

QaWaZa
Standard 2 of 5 On

QaWaPa
Standard 2 of 5 Off**

Note: Standard 2 of 5 is also known as IATA 2 of 5

Number of Recognized Characters (Minimum and Maximum limits)

You can limit Standard 2 of 5 decoding by length. The default allowed range is 4-48 characters. The minimum and maximum allowed setting range is 1-48. The scanner can be set to read only Standard 2 of 5 barcodes whose length is between (and including) the minimum and maximum values.

XdWbLa
Standard 2 of 5 Minimum Length

XdXbLa
Standard 2 of 5 Maximum Length

Setting steps: See Barcode Length Settings - 1D Barcode Length Settings.

NEC 2 of 5

SaYdWa
NEC 2 of 5 On

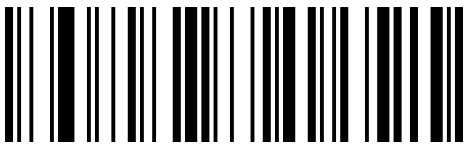
SaYdMa
NEC 2 of 5 Off**

Note: NEC 2 of 5 is also called Discrete 2 of 5

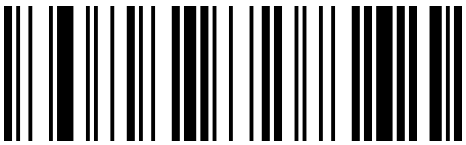
Check Character

NEC 2 of 5 barcodes can optionally include a check character as the last character of the data. This character is calculated from the other characters and can be used to verify that the data is correct.

- **NEC 2 of 5 No Check Digit (default):** The scanner does not validate a check character. If a final character is present, it is always treated and transmitted as normal data, even if it is a valid check character.
- **NEC 2 of 5 Check and Transmit:** The barcode must contain a valid check character. The scanner verifies it and includes the check character in the output.
- **NEC 2 of 5 Check but Do Not Transmit:** The barcode must contain a valid check character. The scanner verifies it, however, it does not include the check character in the output.



CbYdNa
NEC 2 of 5 No Check Digit**

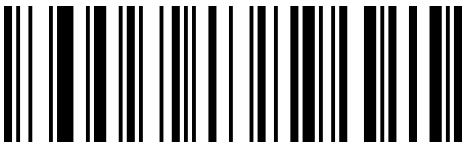


CbYdHb
NEC 2 of 5 Check and Transmit Digit

CbYdXa
NEC 2 of 5 Check but Do Not Transmit Digit

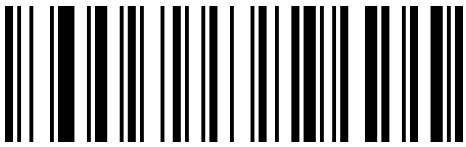
Number of Recognized Characters (Minimum and Maximum limits)

You can limit NEC 2 of 5 decoding by length. The default allowed range is 4-80 characters. The minimum and maximum allowed setting range is 2-80. The scanner can be set to read only NEC 2 of 5 barcodes whose length is between (and including) the minimum and maximum values.



XdAcLa

NEC 2 of 5 Minimum Length



XdBcLa

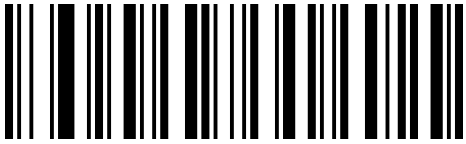
NEC 2 of 5 Maximum Length

Setting steps: See Barcode Length Settings - 1D Barcode Length Settings.

MSI Plessey

QaYaXa

MSI Plessey On



QaYaNa

MSI Plessey Off**

Check Character

MSI Plessey barcodes can include one or two check digits at the end of the data. These digits are calculated from the other characters (using Mod 10 and/or Mod 11) and can be used to verify that the data is correct.

You can choose whether to use check digits and whether they are sent in the output:

- **No Check Digit (default):** The scanner does not validate any check digit. All characters are treated and transmitted as normal data.
- **Validate, Do Not Transmit Check Digit:** The barcode must contain a valid check digit (or digits). The scanner verifies the check digit(s), however, it does not include them in the output.
- **Validate and Transmit Check Digit:** The barcode must contain a valid check digit (or digits). The scanner verifies the check digit(s) and includes them in the output.

No Check Digit

SbOeQa

No Check Digit**

Validate, Do Not Transmit Check Digit

SbOeOc

1x Mod 10 - Validate, Do Not Transmit

SbOeId

2x Mod 10 - Validate, Do Not Transmit

SbOeYc

Mod 10 + Mod 11 - Validate, Do Not Transmit

Validate and Transmit Check Digit

SbOeAb

1x Mod 10 - Validate and Transmit

SbOeUb

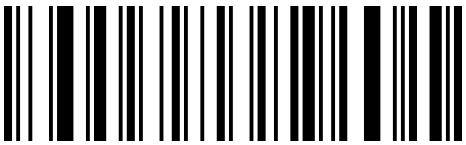
2x Mod 10 - Validate and Transmit

SbOeKb

Mod 10 + Mod 11 - Validate and Transmit

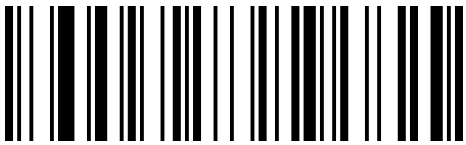
Number of Recognized Characters (Minimum and Maximum limits)

You can limit MSI Plessey decoding by length. The default allowed range is 4-80 characters. The scanner can be set to read only MSI Plessey barcodes whose length is between (and including) the minimum and maximum values.



XdCcLa

MSI Plessey Minimum Length

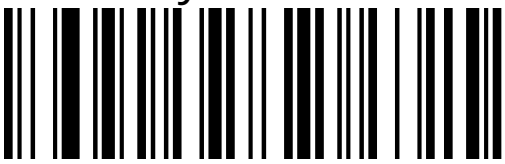


XdDcLa

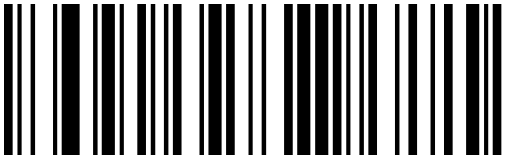
MSI Plessey Maximum Length

Setting steps: See Barcode Length Settings - 1D Barcode Length Settings.

UK Plessey



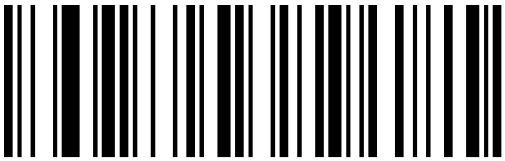
WaMbZa
UK Plessey On



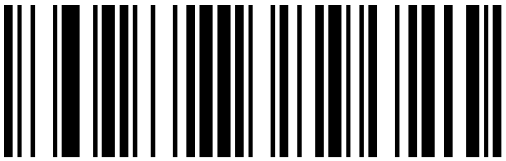
WaMbPa
UK Plessey Off**

Number of Recognized Characters (Minimum and Maximum limits)

You can limit UK Plessey decoding by length. The default allowed range is 4-48 characters. The scanner can be set to read only UK Plessey barcodes whose length is between (and including) the minimum and maximum values.



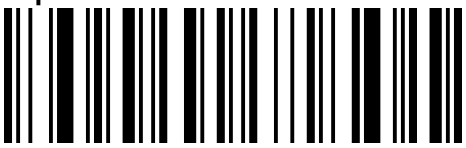
YdOcLa
UK Plessey Minimum Length



YdPcLa
UK Plessey Maximum Length

Setting steps: See Barcode Length Settings - 1D Barcode Length Settings.

Telepen



QaWaCb

Telepen On

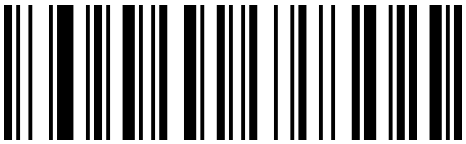
QaWaSa

Telepen Off**

Telepen Character Format

Telepen supports two character formats:

- **Number Format:** Numeric-only (Telepen Numeric), optimized for digits
- **Number + Letter Format:** Full ASCII (letters, numbers, and symbols). This is the default



QaWaBb

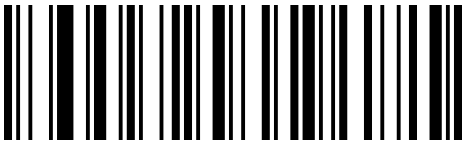
Telepen Number Format

QaWaRa

Telepen Number + Letter Format**

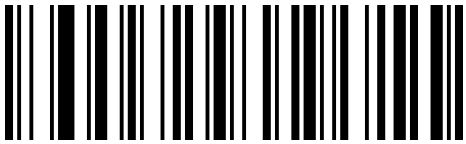
Number of Recognized Characters (Minimum and Maximum limits)

You can limit Telepen decoding by length. The default allowed range is 1-60 characters. The scanner can be set to read only Telepen barcodes whose length is between (and including) the minimum and maximum values.



XdQbLa

Telepen Minimum Length



XdRbLa

Telepen Maximum Length

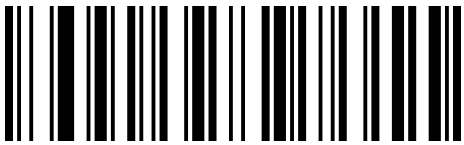
Setting steps: See Barcode Length Settings - 1D Barcode Length Settings.

Trioptic Code

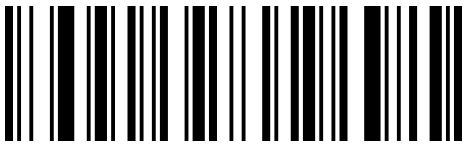
QaZaXa
Trioptic On

QaZaNa
Trioptic Off**

BC412



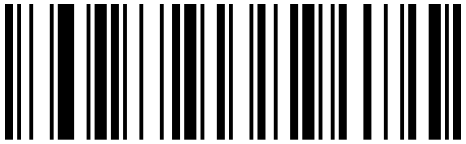
WaMbVa
BC412 On



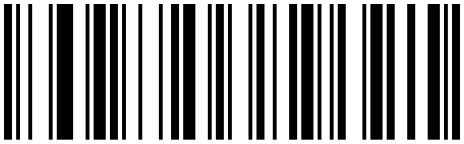
WaMbLa
BC412 Off**

Number of Recognized Characters (Minimum and Maximum limits)

You can limit BC412 decoding by length. The default allowed range is 4-48 characters. The scanner can be set to read only BC412 barcodes whose length is between (and including) the minimum and maximum values.



YdWcLa
BC412 Minimum Length



YdXcLa
BC412 Maximum Length

Setting steps: See Barcode Length Settings - 1D Barcode Length Settings.

Pharma Code (One-Track)

Pharma Code (One-Track) is a 1D symbology used on pharmaceutical packaging for production and packaging control.

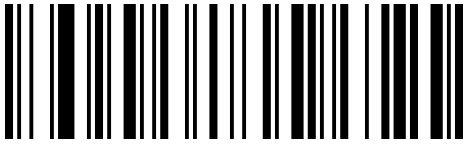
UaNdAb
Pharma Code On

UaNdQa
Pharma Code Off**

GS1 DataBar-14 (RSS-14)

QaAbYa

GS1 DataBar-14 On**



QaAbOa

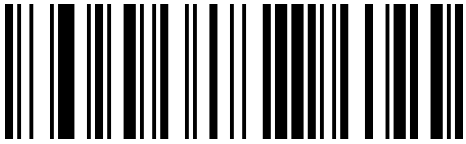
GS1 DataBar-14 Off

Note: GS1 DataBar-14 is also known as GS1 DataBar Omnidirectional or RSS-14. When this option is enabled, the scanner can read GS1 DataBar Omnidirectional, GS1 DataBar Truncated, GS1 DataBar Stacked, and GS1 DataBar Stacked Omnidirectional barcodes.

GS1 DataBar Limited

QaAbZa

GS1 DataBar Limited On**



QaAbPa

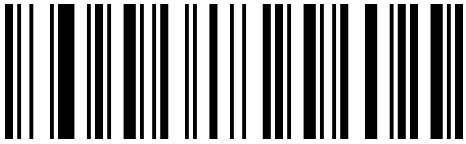
GS1 DataBar Limited Off

Note: GS1 DataBar Limited is also known as RSS-Limited

GS1 DataBar Expanded

QaAbAb

GS1 DataBar Expanded On**



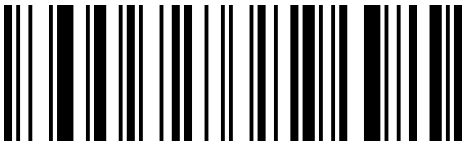
QaAbQa

GS1 DataBar Expanded Off

Note: GS1 DataBar Expanded is also known as RSS-Expanded. When this option is enabled, the scanner can read GS1 DataBar Expanded and GS1 DataBar Expanded Stacked barcodes (Expanded Stacked also requires GS1 DataBar-14/RSS-14 to be enabled).

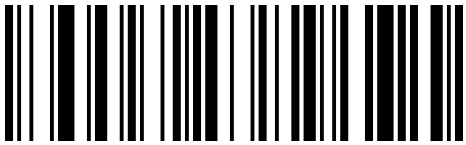
Number of Recognized Characters (Minimum and Maximum limits)

You can limit GS1 DataBar Expanded decoding by length. The default allowed range is 4-74 characters. The scanner can be set to read only GS1 DataBar Expanded barcodes whose length is between (and including) the minimum and maximum values.



XdIcLa

GS1 DataBar Expanded Minimum Length



XdJcLa

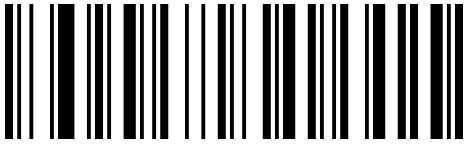
GS1 DataBar Expanded Maximum Length

Setting steps: See Barcode Length Settings - 1D Barcode Length Settings.

QR Code

QaCbXa

QR Code On**



QaCbNa

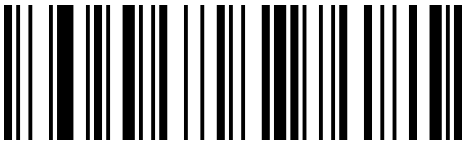
QR Code Off

QR Code Normal/Inverted

These settings control whether the scanner reads only standard QR codes (dark modules on a light background) or also inverted QR codes (light modules on a dark background).

QaCbOa

QR Code Normal Only**



QaCbYa

QR Code Normal + Inverted

QR Code Append

The QR Code append (structured append) function lets the scanner combine 2-3 QR codes that belong to the same linked message and output them as one result.

SaOcBb

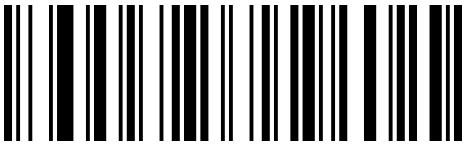
QR Code Append On

SaOcRa

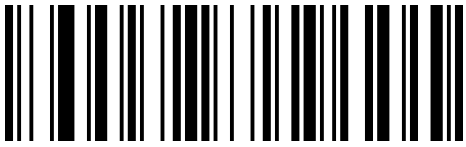
QR Code Append Off**

Number of Recognized Characters (Minimum and Maximum limits)

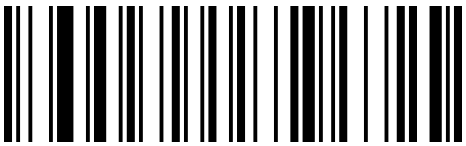
You can limit QR Code decoding by data length. The default allowed range is 1-7089 characters (maximum QR Code numeric capacity). The scanner can be set to read only QR Codes whose length is between (and including) the minimum and maximum values.



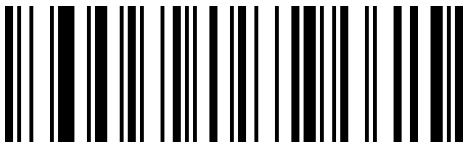
XdZdLa
QR Code Minimum Length (High Byte)



XdYdLa
QR Code Minimum Length (Low Byte)



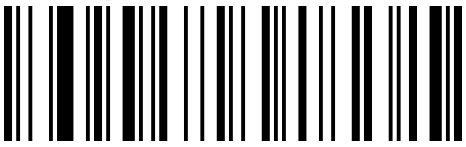
XdBeLa
QR Code Maximum Length (High Byte)



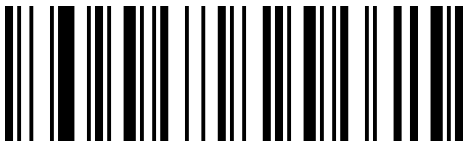
XdAeLa
QR Code Maximum Length (High Byte)

Setting steps: See Barcode Length Settings - 2D Barcode Length Settings.

Micro QR Code



QaCbAb
Micro QR Code On**

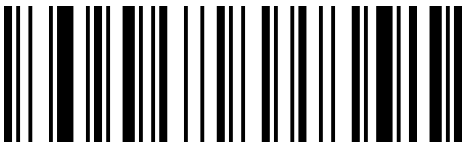


QaCbQa
Micro QR Code Off

Micro QR Code Normal/Inverted

These settings control whether the scanner reads only standard Micro QR codes (dark modules on a light background) or also inverted Micro QR codes (light modules on a dark background).

QaCbRa
Micro QR Code Normal Only**

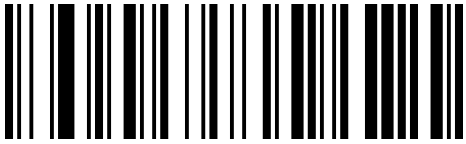


QaCbBb
Micro QR Code Normal + Inverted

Data Matrix

QaBbYa

Data Matrix On**



QaBbOa

Data Matrix Off

Data Matrix Normal/Inverted

These settings control whether the scanner reads only standard Data Matrix codes (dark modules on a light background) or also inverted Data Matrix codes (light modules on a dark background).

QaBbNa

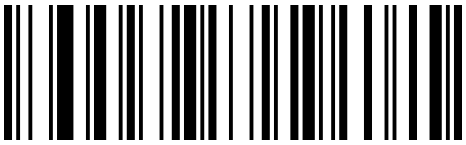
Data Matrix Normal Only**

QaBbXa

Data Matrix Normal + Inverted

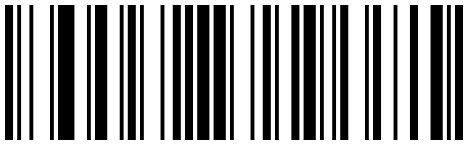
Number of Recognized Characters (Minimum and Maximum limits)

You can limit Data Matrix decoding by data length. The default allowed range is 1-3116 characters (maximum numeric capacity for Data Matrix ECC-200). The scanner can be set to read only Data Matrix codes whose length is between (and including) the minimum and maximum values.



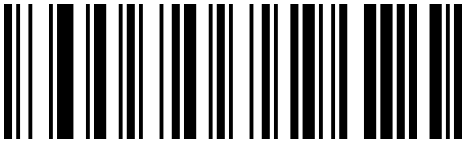
XdVdLa

Data Matrix Minimum Length (High Byte)



XdUdLa

Data Matrix Minimum Length (Low Byte)



XdXdLa

Data Matrix Maximum Length (High Byte)

XdWdLa

Data Matrix Maximum Length (Low Byte)

Setting steps: See Barcode Length Settings - 2D Barcode Length Settings.

PDF417

QaWaVa

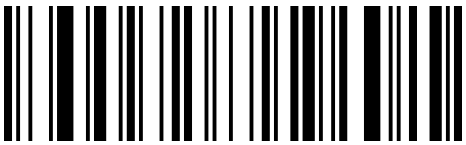
PDF417 On**

QaWaLa

PDF417 Off

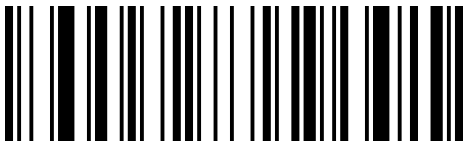
Number of Recognized Characters (Minimum and Maximum limits)

You can limit PDF 417 decoding by data length. The default range is 1-2750 characters. The scanner can be set to read only PDF 417 codes whose length is between (and including) the specified minimum and maximum values.



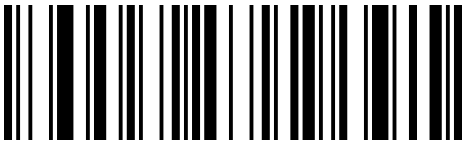
XdHdLa

PDF417 Minimum Length (High Byte)



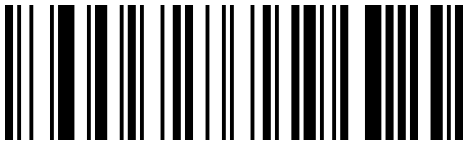
XdGdLa

PDF417 Minimum Length (Low Byte)



XdJdLa

PDF417 Maximum Length (High Byte)



XdIdLa

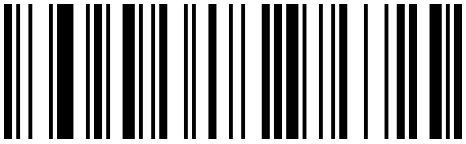
PDF417 Maximum Length (Low Byte)

Setting steps: See Barcode Length Settings - 2D Barcode Length Settings.

Micro PDF 417

QaAbCb

Micro PDF417 On

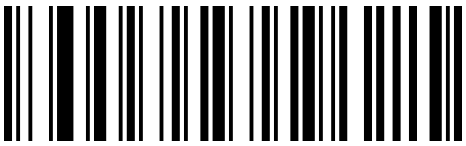


QaAbSa

Micro PDF417 Off**

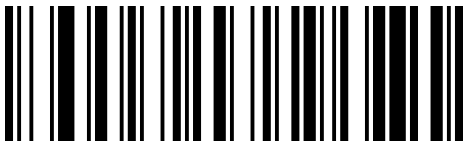
Number of Recognized Characters (Minimum and Maximum limits)

You can limit Micro PDF 417 decoding by data length. The default range is 1-366 characters. The scanner can be set to read only Micro PDF 417 codes whose length is between (and including) the minimum and maximum values.



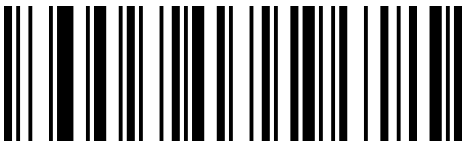
XdLdLa

Micro PDF417 Minimum Length (High Byte)



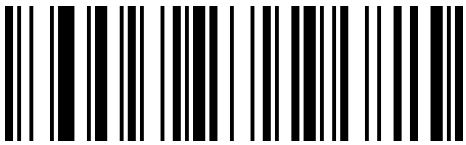
XdKdLa

Micro PDF417 Minimum Length (Low Byte)



XdNdLa

Micro PDF417 Maximum Length (High Byte)



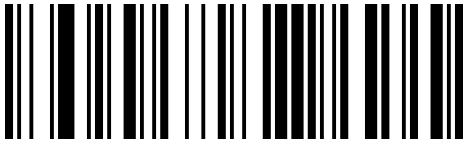
XdMdLa

Micro PDF417 Maximum Length (Low Byte)

Setting steps: See Barcode Length Settings - 2D Barcode Length Settings.

MaxiCode

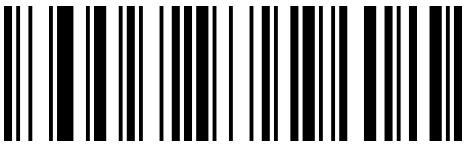
QaCbZa
MaxiCode On



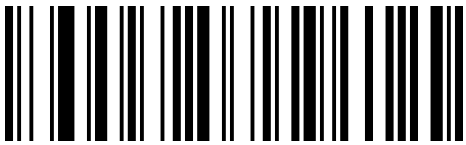
QaCbPa
MaxiCode Off**

Number of Recognized Characters (Minimum and Maximum limits)

You can limit MaxiCode decoding by data length. The default range is 1-150 characters. The scanner can be set to read only MaxiCode symbols whose length is between (and including) the specified minimum and maximum values.



XdSdLa
MaxiCode Minimum Length



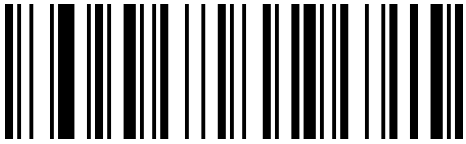
XdTdLa
MaxiCode Maximum Length

Setting steps: See Barcode Length Settings - 1D Barcode Length Settings.

Aztec Code

QaCbVa

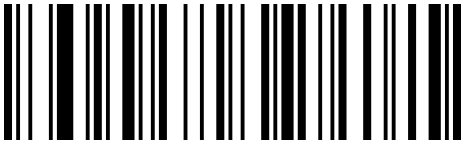
Aztec On



QaCbLa

Aztec Off**

Aztec Code Normal/Inversed



QaCbMa

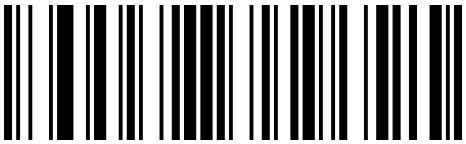
Aztec Normal Only**

QaCbWa

Aztec Normal + Inversed

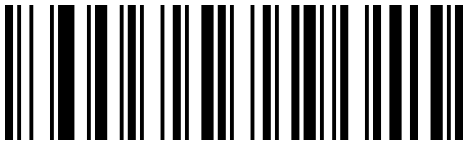
Number of Recognized Characters (Minimum and Maximum limits)

You can limit Aztec Code decoding by data length. The default range is 1-3832 characters. The scanner can be set to read only Aztec Code symbols whose length is between (and including) the specified minimum and maximum values.



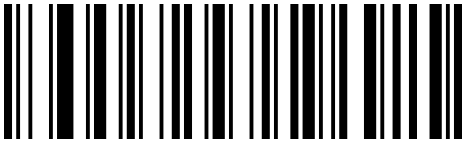
XdPdLa

Aztec Minimum Length (High Byte)



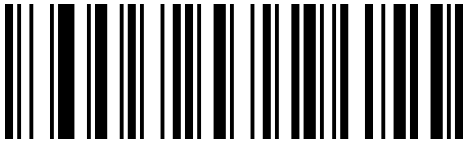
XdOdLa

Aztec Minimum Length (Low Byte)



XdRdLa

Aztec Maximum Length (High Byte)

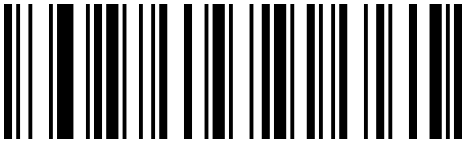


XdQdLa

Aztec Maximum Length (Low Byte)

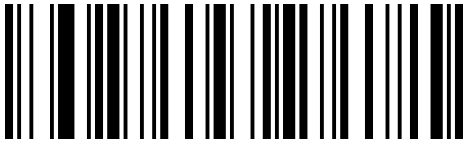
Setting steps: See Barcode Length Settings - 2D Barcode Length Settings.

HanXin Code



SaRdWa

HanXin On



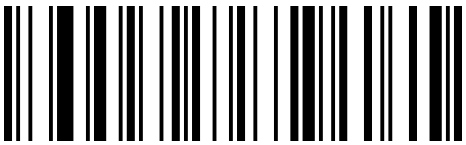
SaRdMa

HanXin Off**

Note: HanXin Code is also known as Chinese Sensible.

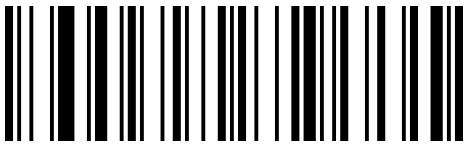
Number of Recognized Characters (Minimum and Maximum limits)

You can limit HanXin Code decoding by data length. The default range is 1-7883 characters. The scanner can be set to read only HanXin Code symbols whose length is between (and including) the specified minimum and maximum values.



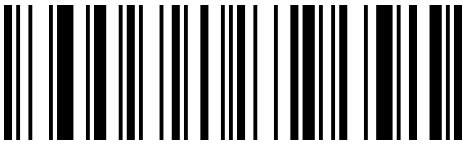
XdDeLa

HanXin Minimum Length (High Byte)



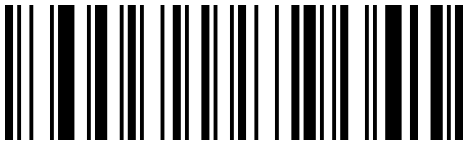
XdCeLa

HanXin Minimum Length (Low Byte)



XdFeLa

HanXin Maximum Length (High Byte)

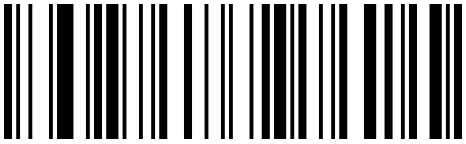


XdEeLa

HanXin Maximum Length (Low Byte)

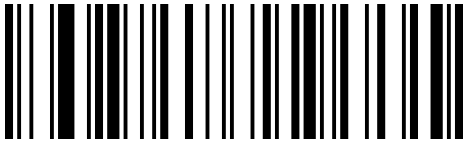
Setting steps: See Barcode Length Settings - 2D Barcode Length Settings.

Codablock A Code



SaIdVa

Codablock A On

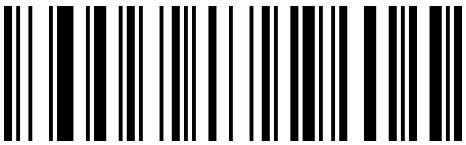


SaIdLa

Codablock A Off**

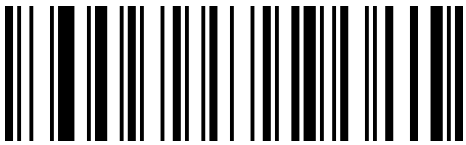
Number of Recognized Characters (Minimum and Maximum limits)

You can limit Codablock A decoding by data length. The default range is 1-255 characters. The scanner can be set to read only Codablock A barcodes whose length is between (and including) the specified minimum and maximum values.



XdAdLa

Codablock A Minimum Length

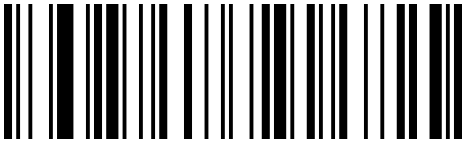


XdBdLa

Codablock A Maximum Length

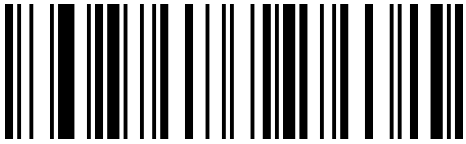
Setting steps: See Barcode Length Settings - 1D Barcode Length Settings.

Codablock F Code



SaIdWa

Codablock F On

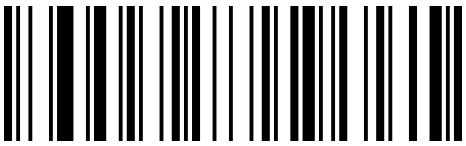


SaIdMa

Codablock F Off**

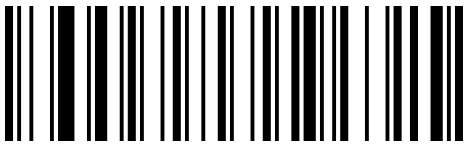
Number of Recognized Characters (Minimum and Maximum limits)

You can limit Codablock F decoding by data length. The default range is 1-2048 characters. The scanner can be set to read only Codablock F barcodes whose length is between (and including) the specified minimum and maximum values.



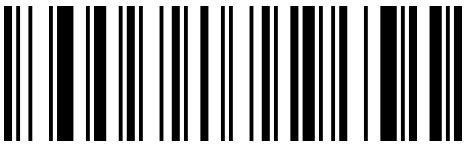
XdDdLa

Codablock F Minimum Length (High Byte)



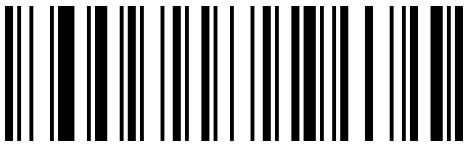
XdCdLa

Codablock F Minimum Length (Low Byte)



XdFdLa

Codablock F Maximum Length (High Byte)

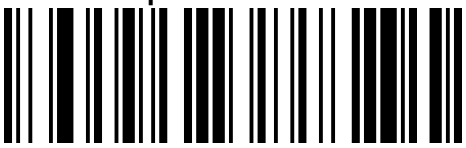


XdEdLa

Codablock F Maximum Length (Low Byte)

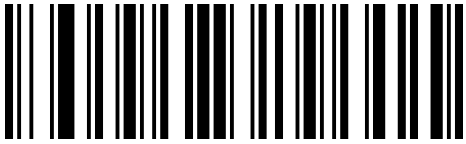
Setting steps: See Barcode Length Settings - 2D Barcode Length Settings.

GS1 Composite Code



RaUcBb

GS1 Composite On

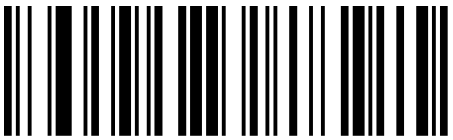


RaUcRa

GS1 Composite Off**

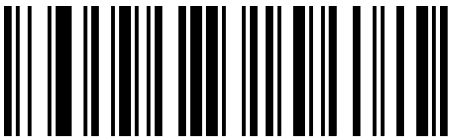
Note: GS1 Composite Code includes multiple composite types: Omnidirectional, Truncated, Stacked, Stacked Omnidirectional, Limited, Expanded, Expanded Stacked, GS1-128, UPC, and EAN.

GS1-128 Composite



RaUcAb

GS1-128 Composite On



RaUcQa

GS1-128 Composte Off**

UPC Composite

YaNbZa

UPC Composite On

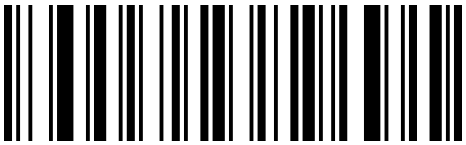
YaNbPa

UPC Composte Off

Note: UPC Composite is a category of GS1 Composite Code. UPC Composite and EAN/UPC barcodes are mutually exclusive. EAN/UPC is automatically disabled when UPC Composite is enabled.

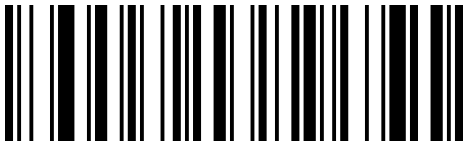
Number of Recognized Characters (Minimum and Maximum limits)

You can limit GS1 Composite Code decoding by data length. The default range is 1-2435 characters. The scanner can be set to read only GS1 Composite Codes whose length is between (and including) the specified minimum and maximum values.



XdLcLa

GS1 Composite Minimum Length (High Byte)

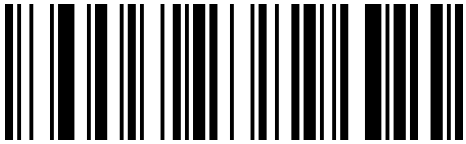


XdKcLa

GS1 Composite Minimum Length (Low Byte)

XdNcLa

GS1 Composite Maximum Length (High Byte)



XdMcLa

GS1 Composite Maximum Length (Low Byte)

Setting steps: See Barcode Length Settings - 2D Barcode Length Settings.

Korea Post

SaFdVa
Korea Post On

SaFdLa
Korea Post Off**

Note: Korea Post is also known as Korean Postal Authority.

Korea Post Reverse Output

SaFdXa
Korea Post Positive Sequence Output**

SaFdNa
Korea Post Reverse Output

Korea Post Check Character

Korea Post barcodes may include a leading check character used to verify the data. You can enable or disable Korea Post check digit verification. The default is Off.

SaFdAb
Korea Post Check Digit On

SaFdQa
Korea Post Check Digit Off**

Number of Recognized Characters (Minimum and Maximum limits)

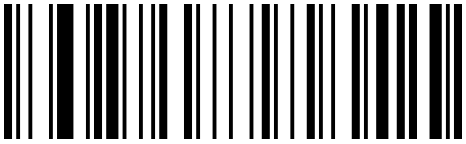
You can limit Korea Post decoding by data length. The default range is 2-80 characters. The scanner can be set to read only Korea Post barcodes whose length is between (and including) the specified minimum and maximum values.

XdQcLa
Korea Post Minimum Length

XdRcLa
Korea Post Maximum Length

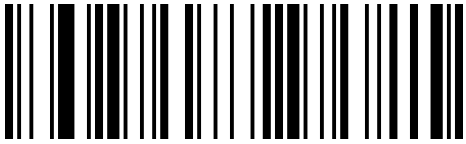
Setting steps: See Barcode Length Settings - 1D Barcode Length Settings.

Australian Post



SaGdCb

Australian Post On



SaGdSa

Australian Post Off**

Note: Also known as Australia Post 4-State Customer Code.

Australian Error Correction Bit

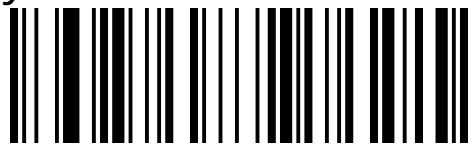
YaTbXa

Send Australian Post Error Correction Bits

YaTbNa

Do Not Send Australian Post Error Correction Bits**

Royal Mail



SaGdVa

Royal Mail On

SaGdLa

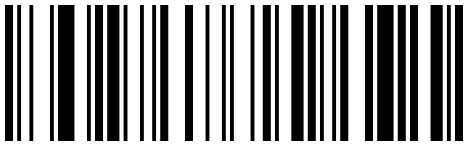
Royal Mail Off**

Note: Royal Mail is also known as British Post, CBC (Customer Bar Code), RM4SCC (Royal Mail 4-State Customer Code), and UK Postal Code.

USPS Intelligent Mail

SaIdYa

USPS Intelligent Mail On



SaIdOa

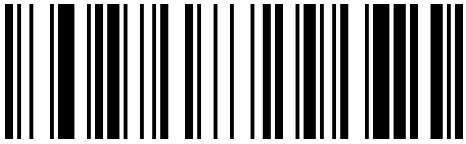
USPS Intelligent Mail Off**

Note: USPS Intelligent Mail is also known as OneCode and USPS 4-State Customer Barcode.

Japanese Post

SaGdBb

Japanese Post On

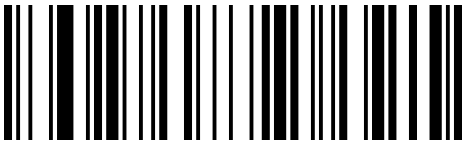


SaGdRa

Japanese Post Off**

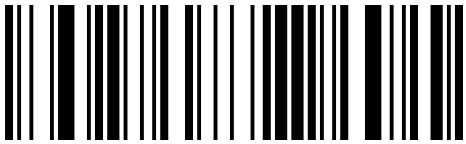
Note: Also known as Japan Post 4-State Customer Code.

Planet Code



SaGdZa

Planet Code On



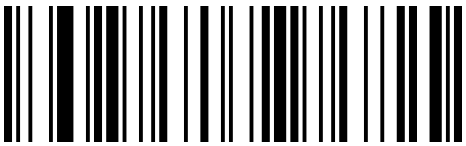
SaGdPa

Planet Code Off**

Note: Also known as USPS Planet.

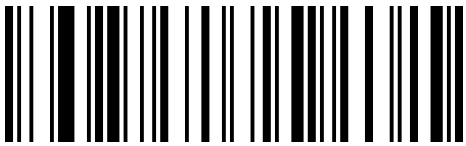
Planet Code Check Character

Planet Code barcodes may include a trailing check character used to verify the data. You can enable or disable Planet Code check digit verification. The default is Off.



SaFdYa

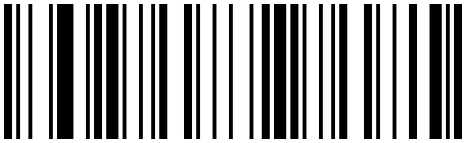
Planet Code Check Digit On



SaFdOa

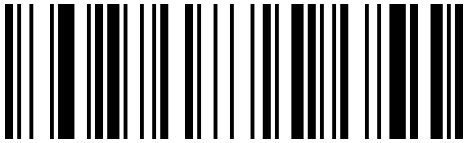
Planet Code Check Digit Off**

Postnet Code



SaGdYa

Postnet Code On



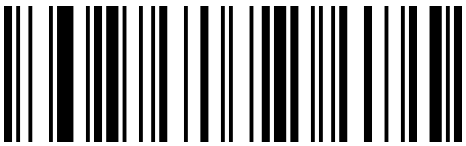
SaGdOa

Postnet Code Off**

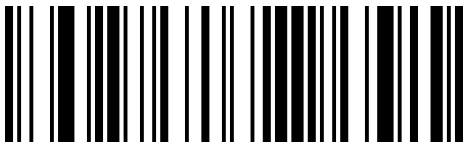
Note: Postnet Code Also known as USPS Postnet.

Postnet Check Character

Postnet barcodes may include a trailing check character used to verify the data. You can enable or disable Postnet check digit verification. The default is Off.



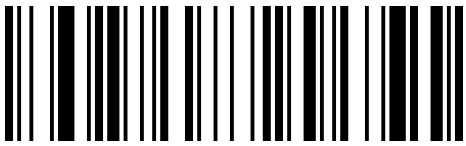
SaFdZa
Postnet Check Digit On



SaFdPa
Postnet Check Digit Off**

KIX Code

SaGdAb
KIX Code On



SaGdQa
KIX Code Off**

Note: KIX Code is also known as Dutch Post (Netherlands).

Part II: Special Configuration Codes

Also referred to as Special Codes

Restore Wireless Parameters

If the scanner's functionality is disrupted due to accidentally scanning incorrect function setting codes, you can restore the scanner to its default state by scanning the Restore Wireless Parameters barcode.

Restore Wireless Parameters

Instructions

This function is particularly useful in the following scenarios:

1. An error occurred during scanner setup.
2. You cannot recall the previous settings made on the scanner and wish to reset it to default.
3. You enabled unusual or experimental functions and now want to reset the scanner for standard use.

Setting Custom Default Settings

With custom default settings, you can configure the default wireless parameters of the scanner to suit your specific needs. These settings will replace the original factory defaults and will remain in effect, even if you perform a wireless parameter reset.

Instructions for Setting Custom Default Settings:

1. Scan the “Setting Custom Default Settings” configuration code
2. Set Wireless Parameters:
    a. Scan the barcodes corresponding to the desired wireless parameter functions.

Important: Once configured, the new custom defaults cannot be reverted to the factory settings by using the “Restore Wireless Parameters” function.

Setting Custom Default Settings

Communication mode switching

To avoid scanning the wrong code by mistake, cover nearby barcodes while scanning the intended one.

1. Scan the barcode corresponding to the desired communication mode:

%%SpecCodeA8

%%SpecCodeA8

2.4G Mode

%%SpecCodeA9

%%SpecCodeA9

Virtual Bluetooth Mode

%%SpecCodeAA

%%SpecCodeAA

Bluetooth HID Mode

%%SpecCodeAB

%%SpecCodeAB

Bluetooth SPP Mode

%%SpecCodeAC

%%SpecCodeAC

Bluetooth BLE Mode

2. Scan the “Pair with receiver” barcode. The blue light will start flashing, indicating pairing mode. Alternatively, press the scanner’s trigger twice to exit setup mode and return to the previous state.

Pair with Receiver

Scanner Matching Steps

USB Dongle Pairing (2.4 G)

The following steps outline how to pair the scanner in 2.4G mode. This process supports operating systems such as Windows XP, Win7, Win8, Win10, and others.

1. Scan the “2.4G Mode” barcode to configure the scanner for 2.4G wireless communication.

%%SpecCodeA8

%%SpecCodeA8

2.4G Mode

2. Scan the “Pair with USB Dongle receiver” barcode and enter the pairing state.
The blue indicator light will begin flashing quickly, indicating the scanner is in pairing mode. Alternatively, press the scanner’s trigger twice to exit setup mode and return to the previous state.

%%SpecCode99

%%SpecCode99

Pair with USB Dongle Receiver

3. Plug the USB Dongle receiver into the computer’s USB port. A “beep” sound will confirm successful pairing, and the blue indicator light on the right will remain solid.

Bluetooth Terminal Matching

The scanner can connect via Bluetooth to devices running Android, iOS, or PCs with Bluetooth functionality. There are two methods for pairing the scanner in Bluetooth HID mode.

Method 1: Quick Pairing (Disabled by Default)

1. Start the scanner and press the button for 8 seconds to enter Bluetooth HID Matching Mode.
    a. The blue light will flash alternately.
2. Enable Bluetooth on the target device and search for “Barcode Scanner HID”.
3. Select “ScanAvengerHID” to pair.
4. Upon successful pairing, you will hear a beep, and the blue light will remain solid.

Method 2: Manual Setup

1. Scan the “Bluetooth HID Mode” barcode to set the scanner to Bluetooth HID mode

Bluetooth HID Mode

2. Scan the “Pair with receiver” barcode. The blue light will start flashing, indicating pairing mode. Alternatively, press the scanner’s trigger twice to exit setup mode and return to the previous state.

Pair with Receiver

3. Turn on Bluetooth and search for “ScanAvengerHID” in your device’s Bluetooth settings.

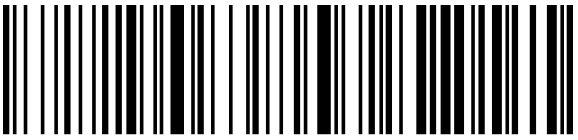
4. Select “ScanAvengerHID”” to enter pairing mode

5. Beep confirms successful pairing, and the blue light will remain solid.

Long Press 8 Seconds into Bluetooth HID Search (Disabled by Default)

The scanner can be configured to quickly initiate Bluetooth HID search mode by holding the button for 8 seconds. Use the steps below to enable or disable this feature.

To Enable/Disable the function, please scan one of the configuration codes below



%%SpecCode79

%%SpecCode79

Enable Long Press 8 Seconds to Enter Bluetooth HID Search

%%SpecCode78

%%SpecCode78

Disable Long Press 8 Seconds to Enter Bluetooth HID Search**

Bluetooth SPP Mode (Serial Port Profile)

To enable data transmission via SPP, you would need compatible Bluetooth SPP transmission software. This mode is ideal for transferring large amounts of data.

Bluetooth SPP Pairing Steps:

1. Scan the “Bluetooth SPP Mode” set up code.

%%SpecCodeAB

%%SpecCodeAE

Bluetooth SPP Mode

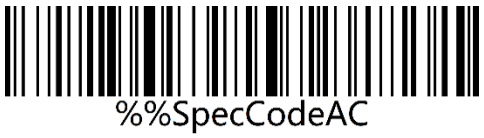
   a. The blue and green lights will start flashing, indicating pairing mode.
   b. The device will automatically switch to SPP mode and enter the broadcast state.
   c. The device name “ScanAvengerSPP” will be available for selection in the SPP software.
2. Search for “ScanAvengerSPP” in the SPP transmission software.
3. Select “ScanAvengerSPP” to initiate pairing.
4. Wait for the confirmation signal.
   a. A beep sound indicates a successful pairing.
   b. The blue LED will remain steady, confirming the connection.

Bluetooth BLE Mode (Bluetooth Low Energy)

To enable data transmission via BLE, you would need compatible Bluetooth BLE transmission software. This mode is optimized for low-power, small data transfers.

Bluetooth BLE Pairing Steps:

1. Scan the “Bluetooth BLE Mode” set up code.



Bluetooth BLE Mode

   a. The blue and green lights will start flashing, indicating pairing mode.
   b. The device will automatically switch to BLE mode and enter the broadcast state.
   c. The device name “ScanAvengerBLE” will be available for selection in the BLE software.
2. Search for “ScanAvengerBLE” in the BLE transmission software.
3. Select “ScanAvengerBLE” to initiate pairing.
4. Wait for the confirmation signal.
   a. A beep sound indicates a successful pairing.
   b. The blue LED will remain steady, confirming the connection.

Set Bluetooth Name

1. Scan “Set Bluetooth Name” Barcode

Set Bluetooth Name

2. Scan the barcode representing the desired Bluetooth name.
Note: The default name is “ScanAvenger”.

a. The complete Bluetooth name includes the name + protocol type (e.g., HID, SPP). Changing the name updates all protocol names.

b. The Bluetooth name supports a maximum of 16 bytes. If a barcode exceeds this limit, only the first 16 bytes will be used.

Example: If the new Bluetooth name is Scanner, the Bluetooth HID name becomes Scanner

Sample Bluetooth Name “Scanner”

Read Bluetooth Name

To check the current Bluetooth name, scan the “Read Bluetooth Name” barcode.

Read Bluetooth Name

Battery Level Display

To check the current power level of the scanner, please scan the “Battery Level Display” barcode into a text processing app, where the battery percentage will appear.
This function allows you to easily monitor the scanner's power level to ensure uninterrupted operation.

Battery Level Display

Wireless transmission modes

The barcode scanner has three operating modes: Trigger Upload Mode, Mixed Mode, and Storage Mode. The default is Trigger Upload Mode.

Trigger Upload Mode

By scanning the “Trigger Upload Mode” barcode, the scanner immediately transmits the scanned data to the connected device when the trigger is pressed.

%%SpecCode10

%%SpecCode10

Trigger Upload Mode**

Mixed Mode

Mixed mode combines two operating modes into one setting: when connected to a device, the scanner operates in trigger upload mode. When disconnected, it switches to storage mode automatically. This eliminates the need to reconfigure modes on each connection change.

Note: Not recommended for Bluetooth HID, SPP, or BLE.

%%SpecCode12

%%SpecCode12

Mixed Mode

Storage Mode

By scanning the “Storage Mode” barcode, the scanner stores scanned barcode data in its internal memory instead of uploading it directly to the connected device. The stored data can be uploaded to the device later as needed, meaning that the scanner can be used in this mode even if temporarily disconnected.

%%SpecCode11

%%SpecCode11

Storage mode

Data Control (Data Processing for Storage Mode)

This section provides instructions for managing stored barcode data in Storage Mode. Use the corresponding barcodes to upload, count, or clear stored data.

Data Upload

To upload the data stored in the scanner to a computer, POS, or mobile device, simply scan the “Data Upload” barcode, which enables the scanner to transmit all stored barcode data to the connected device.

Important: Uploaded data remains stored in the scanner unless cleared using the “Data Clear” function.

%%SpecCode16

%%SpecCode16

Data Upload

Sum of the Barcodes Scanned

To count and upload the total number of barcodes stored in the scanner, simply scan the “Total Data” barcode. The scanner will send the total count of stored barcodes to the connected device. This feature is useful for inventory tracking and data analysis.

%%SpecCode17

%%SpecCode17

Total Data

Data Clear

To erase all stored barcode data in the scanner, simply scan the “Data Clear” barcode. The scanner will permanently delete all stored data.

Caution: This action cannot be undone. Ensure that all necessary data has been uploaded before clearing.

%%SpecCode18

%%SpecCode18

Data Clear

Android, iOS System Keyboard Settings (Bluetooth Function)

This section explains how to manage keyboard visibility when using the scanner in Bluetooth HID Mode.

1. To toggle the keyboard display, scan the “Hide/Unhide Keyboard” barcode.

%%SpecCode1A

%%SpecCode1A

Hide/Unhide Keyboard

2. To use a double trigger press to hide/unhide the keyboard, scan the “Enable Double Click to Hide/Unhide Keyboard” barcode.
This setting overrides the “Hide/Unhide Keyboard” barcode functionality

%%SpecCode7B

%%SpecCode7B

Enable Double Click to Hide/Unhide Keyboard

3. To deactivate the double trigger press functionality, scan the “Disable Double Click to Hide/Unhide Keyboard” barcode.

%%SpecCode7A

%%SpecCode7A

Disable Double Click to Hide/Unhide Keyboard

Android System Keyboard Display:

If the virtual keyboard does not appear on some Android devices, contact the supplier for the Bluetooth input method APP, as this may depend on the device manufacturer.

Transmission Speed Setting

To avoid scanning the wrong code by mistake, cover nearby barcodes while scanning the intended one.

Scan the barcode for the desired speed (the default is Fast):

%%SpecCodeB0

%%SpecCodeB0

Fast**

%%SpecCodeB1

%%SpecCodeB1

Medium

%%SpecCodeB2

%%SpecCodeB2

Low

%%SpecCodeB3

%%SpecCodeB3

Very Low

If there are any issues using this feature in USB Dongle (2.4G) mode, scan the code below

%%SpecCodeBA1A01

Vibration setting

To avoid scanning the wrong code by mistake, it is recommended to cover adjacent codes while scanning the intended one. This ensures accurate setup and prevents unintended changes to the configuration.

Scan the barcode for the desired setting:

%%SpecCode76

%%SpecCode76

Turn Off Vibration

%%SpecCode77

%%SpecCode77

Turn On Vibration**

Sleep time setting

To avoid scanning the wrong code by mistake, cover nearby barcodes while scanning the intended one.

Scan the barcode for the desired setting (the default is 30 min):

%%SpecCode30

%%SpecCode30

Sleep interval 30 s

%%SpecCode31

%%SpecCode31

Sleep interval 1 min

%%SpecCode32

%%SpecCode32

Sleep interval 2 min

%%SpecCode33

%%SpecCode33

Sleep interval 5 min

%%SpecCode34

%%SpecCode34

Sleep interval 10 min

%%SpecCode35

%%SpecCode35

Sleep Interval 30 min**

%%SpecCode36

%%SpecCode36

Never Sleep

%%SpecCode38

%%SpecCode38

Sleep Immediately

Language Settings Table

To avoid scanning the wrong code by mistake, cover nearby barcodes while scanning the intended one.

Select the desired keyboard language (the default is English (US)):

%%SpecCode40

%%SpecCode40

English (US)**

%%SpecCode41

%%SpecCode41

German

%%SpecCode42

%%SpecCode42

French

%%SpecCode43

%%SpecCode43

Spanish

%%SpecCode44

%%SpecCode44

Italian

%%SpecCode45

%%SpecCode45

Japanese

Belgian French

Portuguese

English (UK)

German IOS keyboard

Brazilian Portuguese

Russian

Czech

142 Italy 142

Q (Turkey Q)

F (Turkey F)

Sweden / Finland

Mexican Spanish

Denmark

%%SpecCode54

%%SpecCode54

Written Norwegian

%%SpecCode55

%%SpecCode55

Croatian/Serbian

%%SpecCode56

%%SpecCode56

Swiss German

%%SpecCode57

%%SpecCode57

Swiss French

%%SpecCode58

%%SpecCode58

Dutch

%%SpecCode59

%%SpecCode59

Hungarian

%%SpecCode5A

%%SpecCode5A

Polish

Canadian French

Argentina (Latin American)

Slovak

Thai

International keyboard

Note: Enabling the International Keyboard may slightly reduce transmission speed. Additionally, the International General Keyboard supports a wide range of smaller languages commonly used on PC platforms.

End of Barcode Control Characters

To avoid scanning the wrong code by mistake, cover nearby barcodes while scanning the intended one.

Scan the appropriate control character according to your requirements (the default is CR - Carriage Return):

%%SpecCode9C

Add CR**

%%SpecCode9D

Add LF

%%SpecCode9E

Add CR+LF

%%SpecCodeA2

Add TAB

%%SpecCode9F

None

Case Conversion Settings

To avoid scanning the wrong code by mistake, cover nearby barcodes while scanning the intended one.

Scan the barcode for the desired setting (the default is No Case Conversion):

%%SpecCodeA3

Convert to Lowercase

%%SpecCodeA4

Convert to Uppercase

%%SpecCodeA6

Case Interchange

%%SpecCodeA5

No Case Conversion**

Timestamp Prefix/Suffix

This function allows you to add a prefix or suffix timestamp to every scan. Follow these steps to configure the setting:

To avoid scanning the wrong code by mistake, cover nearby barcodes while scanning the intended one.

1. Click on the URL below and scan the barcode on the site to synchronize your scanner's clock:

https://scanavenger.com/time-setting-page/

2. Scan one of the following configuration codes to place the timestamp as prefix or as suffix:

Timestamp Prefix

Timestamp Suffix

To remove the timestamp, scan the code below:

Remove Timestamp

To output current time, scan the code below:

Output Current Time

Factory Reset Steps

Reset Steps for Wireless USB Dongle Connection

1. Unplug the USB Dongle.
2. Scan the barcodes below in order.
    a. No need to print these codes, they can be scanned from the screen.
    b. The scanner may not make sounds or vibrate while scanning certain codes, this is normal behavior.

Step 1

BeQeCe

Restore Factory Default for Scanning Engine

Step 2

%%SpecCode93

Restore Factory Default for Wireless Connection Engine

Step 3

%%SpecCode79

Step 4

%%SpecCode77

Step 5

%%SpecCode35

Step 6

%%SpecCode95

Step 7

%%SpecCode7B

Step 8

%%SpecCode9C

Step 9

Step 10

Step 11

%%SpecCode92

Step 12

%%SpecCodeA8

Step 13

%%SpecCode99

3. Plug the USB Dongle back in.
4. Confirm connection.
    a. Your scanner will pair with the dongle.
    b. A solid blue light on the scanner confirms a successful connection.

Reset Steps for Bluetooth Connection

1. Remove Existing Connection:
    a. Go to your device's Bluetooth Settings → Connections
    b. Remove “ScanAvengerHID” from the list
2. Scan the Barcodes Below in Order:
    a. No need to print these codes, they can be scanned from the screen
    b. The scanner may not make sounds or vibrate while scanning certain codes, this is normal behavior

Step 1

BeQeCe
Restore Factory Default for Scanning Engine

Step 2

%%SpecCode93
Restore Factory Default for Wireless Connection Engine

Step 3

%%SpecCode79

Step 4

%%SpecCode77

Step 5

%%SpecCode35

Step 6

%%SpecCode95

Step 7

%%SpecCode7B

Step 8

%%SpecCode9C

Step 9

Step 10

Step 11

%%SpecCode92

Step 12

Step 13

%%SpecCode99

3. Pair the Scanner:
    a. The scanner light should start flashing blue, indicating it's ready to pair.
    b. Go to Bluetooth Settings and select “ScanAvengerHID” to pair. If it doesn't appear, refresh the Bluetooth search.
    c. A solid blue light on the scanner confirms a successful connection.

Appendix

Appendix - ASCII Hidden Characters Table

Decimal System	Hexadecimal	Characters
00	00	NUL (Null char.)
01	01	SOH (Start of Header)
02	02	STX (Start of Text)
03	03	ETX (End of Text)
04	04	EOT (End of Transmission)
05	05	ENQ (Enquiry)
06	06	ACK (Acknowledgment)
07	07	BEL (Bell)
08	08	BS (Backspace)
09	09	HT (Horizontal Tab)
10	0A	LF (Line Feed)
11	0B	VT (Vertical Tab)
12	0C	FF (Form Feed)
13	0D	CR (Carriage Return)
14	0E	SO (Shift Out)
15	0F	SI (Shift In)
16	10	DLE (Data Link Escape)
17	11	DC1 (XON) (Device Control 1)
18	12	DC2 (Device Control 2)

19	13	DC3 (XOFF) (Device Control 3)
20	14	DC4 (Device Control 4)
21	15	NAK (Negative Acknowledgment)
22	16	SYN (Synchronous Idle)
23	17	ETB (End of Trans. Block)
24	18	CAN (Cancel)
25	19	EM (End of Medium)
26	1A	SUB (Substitute)
27	1B	ESC (Escape)
28	1C	FS (File Separator)
29	1D	GS (Group Separator)
30	1E	RS (Request to Send)
31	1F	US (Unit Separator)

Appendix - ASCII Visible Characters Table

Decimal system	Hex	Character	Decimal system	Hex	Character	Decimal system	Hex	Character
32	20	<SPACE>	107	6B	k	182	B6	¶
33	21	!	108	6C	l	183	B7	·
34	22	“	109	6D	m	184	B8	¸
35	23	#	110	6E	n	185	B9	¹
36	24	$	111	6F	o	186	BA	º
37	25	%	112	70	p	187	BB	»
38	26	&	113	71	q	188	BC	¼
39	27	‘	114	72	r	189	BD	½
40	28	(	115	73	s	190	BE	¾
41	29	)	116	74	t	191	BF	¿
42	2A	*	117	75	u	192	C0	À
43	2B	+	118	76	v	193	C1	Á
44	2C	,	119	77	w	194	C2	Â
45	2D	-	120	78	x	195	C3	Ã
6	2E	.	121	79	y	196	C4	Ä
47	2F	/	122	7A	z	197	C5	Å
48	30	0	123	7B	{	198	C6	Æ
49	31	1	124	7C	|	199	C7	Ç
50	32	2	125	7D	}	200	C8	È
51	33	3	126	7E	~	201	C9	É
52	34	4	127	7F	DEL	202	CA	Ê
53	35	5	128	80	€	203	CB	Ë
54	36	6	129	81	*Unused*	204	CC	Ì
55	37	7	130	82	‚	205	CD	Í

56	38	8	131	83	ƒ	206	CE	Î
57	39	9	132	84	„	207	CF	Ï
58	3A	:	133	85	…	208	D0	Đ
59	3B	;	134	86	†	209	D1	Ñ
60	3C	<	135	87	‡	210	D2	Ò
61	3D	=	136	88	ˆ	211	D3	Ó
62	3E	>	137	89	‰	212	D4	Ô
63	3F	?	138	8A	Š	213	D5	Õ
64	40	@	139	8B	‹	214	D6	Ö
65	41	A	140	8C	Œ	215	D7	×
66	42	B	141	8D	Unused	216	D8	Ø
67	43	C	142	8E	Ž	217	D9	Ù
68	44	D	143	8F	*Unused*	218	DA	Ú
69	45	E	144	90	*Unused*	219	DB	Û
70	46	F	145	91	‘	220	DC	Ü
71	47	G	146	92	’	221	DD	Ý
72	48	H	147	93	“	222	DE	Þ
73	49	I	148	94	”	223	DF	ß
74	4A	J	149	95	•	224	E0	à
75	4B	K	150	96	–	225	E1	á
76	4C	L	151	97	—	226	E2	â
77	4D	M	152	98	˜	227	E3	ã
78	4E	N	153	99	™	228	E4	ä
79	4F	O	154	9A	š	229	E5	å
80	50	P	155	9B	›	230	E6	æ
81	51	Q	156	9C	œ	231	E7	ç
82	52	R	157	9D	*Unused*	232	E8	è

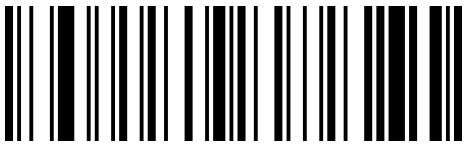
83	53	S	158	9E	ž	233	E9	é
84	54	T	159	9F	Ÿ	234	EA	ê
85	55	U	160	A0	NBSP	235	EB	ë
86	56	V	161	A1	¡	236	EC	ì
87	57	W	162	A2	¢	237	ED	í
88	58	X	163	A3	£	238	EE	î
89	59	Y	164	A4	¤	239	EF	ï
90	5A	Z	165	A5	¥	240	F0	ð
91	5B	[	166	A6	¦	241	F1	ñ
92	5C	\	167	A7	§	242	F2	ò
93	5D	]	168	A8	¨	243	F3	ó
94	5E	^	169	A9	©	244	F4	ô
95	5F	_	170	AA	ª	245	F5	õ
96	60	`	171	AB	«	246	F6	ö
97	61	a	172	AC	¬	247	F7	÷
98	62	b	173	AD	-	248	F8	ø
99	63	c	174	AE	®	249	F9	ù
100	64	d	175	AF	¯	250	FA	ú
101	65	e	176	B0	°	251	FB	û
102	66	f	177	B1	±	252	FC	ü
103	67	g	178	B2	²	253	FD	ý
104	68	h	179	B3	³	254	FE	þ
105	69	i	180	B4	´	255	FF	ÿ
106	6A	j	181	B5	µ			

Appendix - Data and Edit Barcodes

Appendix - Enter/Exit Data Code Setting Mode (Basic Codes Specific)

Some settings, including prefix/suffix configuration, digit hiding, and other basic configuration codes, require the scanner to be in data code setting mode before scanning the relevant setup codes. To enter this mode, scan the Enter/Exit Data Code Setting Mode barcode below.

Once in data code setting mode, only variable-number configuration codes are valid. To apply any other configuration codes, exit data code setting mode first.

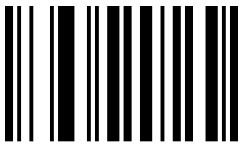


BeReGe

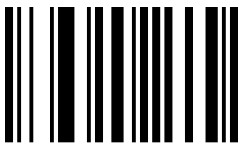
Enter/Exit Data Code Setting Mode

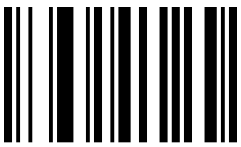
Appendix - Numeric Entry Codes (Basic Codes Specific)

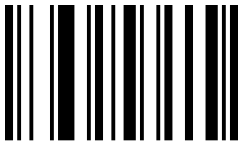
Numeric entry codes are individual digit barcodes (0-9) scanned in sequence to input a value for settings such as prefixes, suffixes, digit hiding, and others. They apply only to settings that use basic configuration codes, not special configuration codes. They must always be used together with Enter/Exit Data Code Setting Mode.

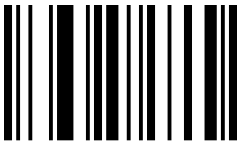

0

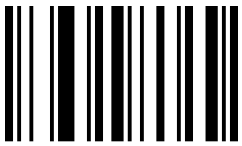

1

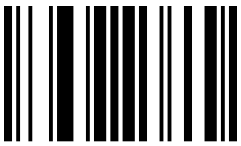

2

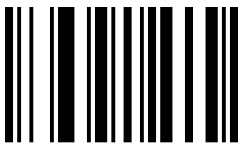

3


4


5


6

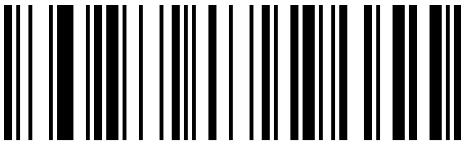

7


8


9

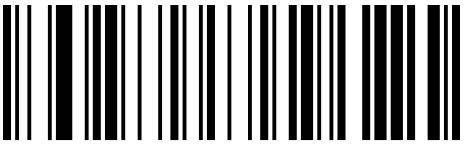
Appendix - Per-Symbology Prefix/Suffix Settings (Basic Codes Specific)

Some barcode types support independent prefix/suffix configuration, allowing different prefixes and suffixes to be assigned per symbology. These settings use basic configuration codes.



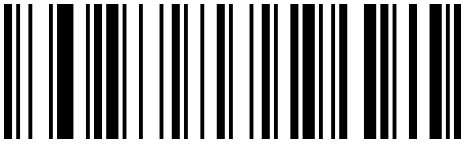
SdAdLa

UPC-A Prefix/Suffix



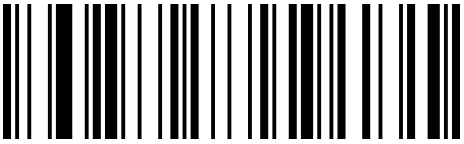
SdBdLa

UPC-E Prefix/Suffix



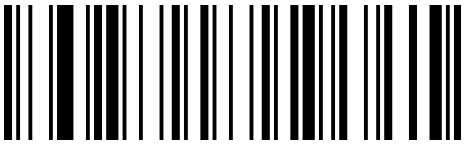
SdCdLa

EAN-8 Prefix/Suffix



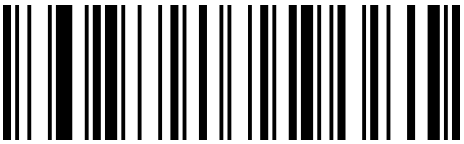
SdDdLa

EAN-13 Prefix/Suffix



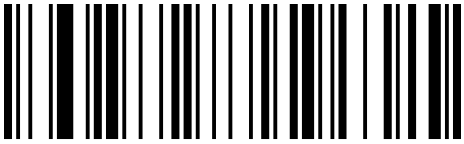
SdEdLa

Code 39 Prefix/Suffix



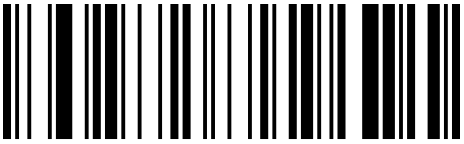
SdFdLa

Code 128 Prefix/Suffix



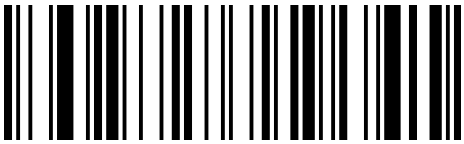
SdGdLa

Telepen Prefix/Suffix



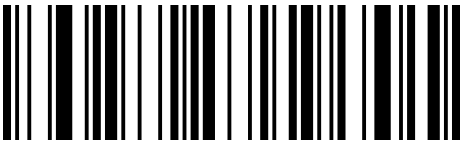
SdHdLa

Code 93 Prefix/Suffix



SdIdLa

Code 11 Prefix/Suffix



SdJdLa

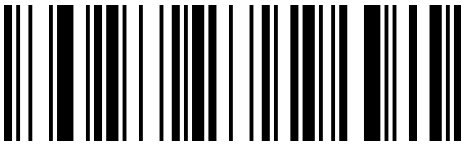
MSI Plessey Prefix/Suffix

SdKdLa

Codabar Prefix/Suffix

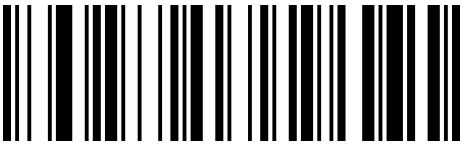
SdLdLa

Interleaved 2 of 5 Prefix/Suffix



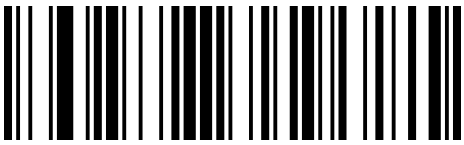
SdMdLa

Matrix 2 of 5 Prefix/Suffix



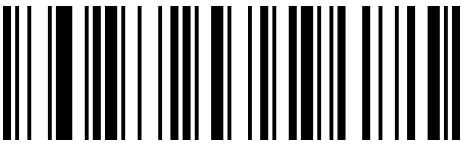
SdNdLa

IATA 2 of 5 Prefix/Suffix



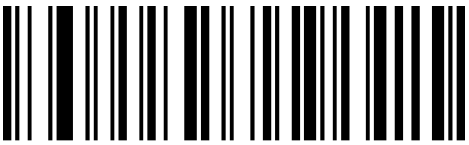
SdPdLa

Industrial 2 of 5 Prefix/Suffix



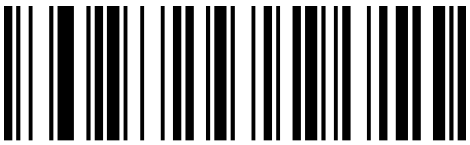
SdQdLa

Trioptic Prefix/Suffix



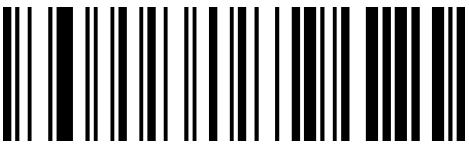
BeZdLa

QR Code Prefix/Suffix



SdRdLa

Data Matrix Prefix/Suffix



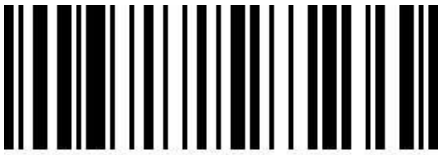
BeAeLa

PDF417 Prefix/Suffix

Appendix - Characters' Barcodes

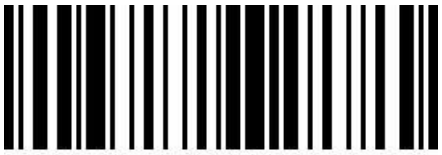
To avoid scanning the wrong code by mistake, cover nearby barcodes while scanning the intended one.

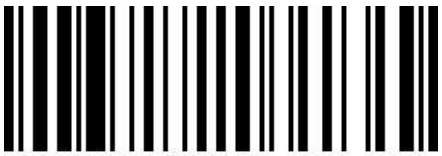
Decimal Value	HEX Value	Character	1D Setup Code	2D Setup Code
1	01	SOH (Character set 3 needs to be enabled)	 %%01	 %%01
2	02	STX (Character set 3 needs to be enabled)	 %%02	 %%02
3	03	ETX (Character set 3 needs to be enabled)	 %%03	 %%03
4	04	EOT (Character set 3 needs to be enabled)	 %%04	 %%04
5	05	ENQ (Character set 3 needs to be enabled)	 %%05	 %%05
6	06	ACK (Character set 3 needs to be enabled)	 %%06	 %%06
7	07	BEL (Character set 3 needs to be enabled)	 %%07	 %%07

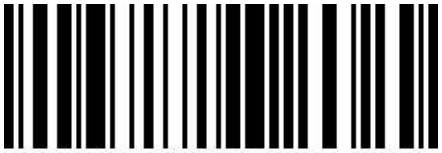
8	08	Back Space		
9	09	Tab (HT)		
10	0A	LF		
11	0B	NULL (can be used to set ″VT″ with Character Set 3)		
12	0C	NULL (can be used to set ″FF″ with Character Set 3)		
13	0D	CR		
14	0E	F1		
15	0F	F2		

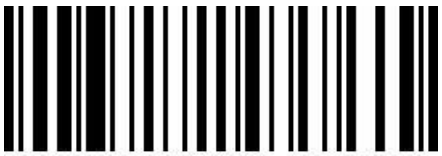
16	10	F3		
17	11	F4		
18	12	F5		
19	13	F6		
20	14	F7		
21	15	F8		
22	16	F9		
23	17	F10		

24	18	F11		
25	19	F12		
26	1A	NULL (can be used to set ″SUB″ with Character Set 3)		
27	1B	Esc		
28	1C	FS		
29	1D	GS		
30	1E	NULL (can be used to set ″RS″ with Character Set 3)		
31	1F	NULL (can be used to set ″US″ with Character Set 3)		

32	20	Space	 %%20	 %%20
33	21	!	 %%21	 %%21
34	22	“	 %%22	 %%22
35	23	#	 %%23	 %%23
36	24	$	 %%24	 %%24
37	25	%	 %%25	 %%25
38	26	&	 %%26	 %%26
39	27	'	 %%27	 %%27

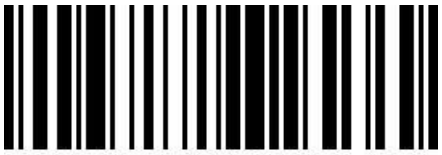
40	28	(	 %%28	 %%28
41	29	)	 %%29	 %%29
42	2A	*	 %%2A	 %%2A
43	2B	+	 %%2B	 %%2B
44	2C	,	 %%2C	 %%2C
45	2D	-	 %%2D	 %%2D
46	2E	.	 %%2E	 %%2E
47	2F	/	 %%2F	 %%2F

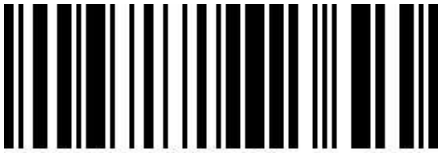
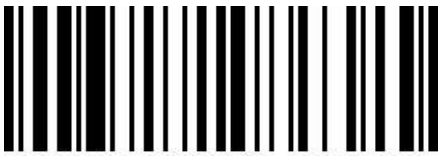
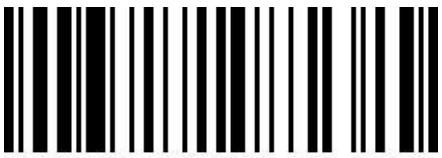
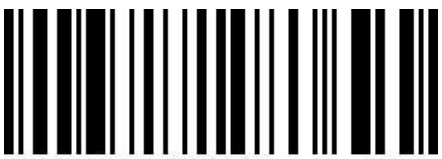
48	30	0		
49	31	1		
50	32	2		
51	33	3		
52	34	4		
53	35	5		
54	36	6		
55	37	7		

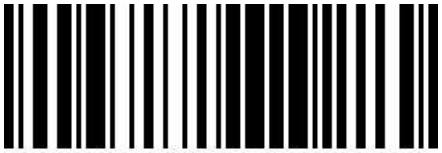
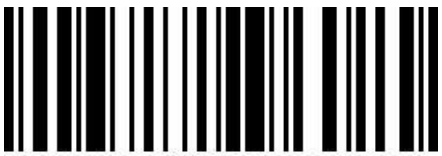
56	38	8		
57	39	9		
58	3A	:		
59	3B	;		
60	3C	<		
61	3D	=		
62	3E	>		
63	3F	?		

64	40	@		
65	41	A		
66	42	B		
67	43	C		
68	44	D		
69	45	E		
70	46	F		
71	47	G		

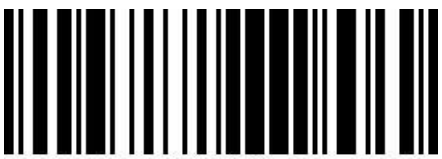
72	48	H	%%48	%%48
73	49	I	%%49	%%49
74	4A	J	%%4A	%%4A
75	4B	K	%%4B	%%4B
76	4C	L	%%4C	%%4C
77	4D	M	%%4D	%%4D
78	4E	N	%%4E	%%4E
79	4F	O	%%4F	%%4F

80	50	P		
81	51	Q		
82	52	R		
83	53	S		
84	54	T		
85	55	U		
86	56	V		
87	57	W		

88	58	X		
89	59	Y		
90	5A	Z		
91	5B	[		
92	5C	\		
93	5D	]		
94	5E	^		
95	5F	_		

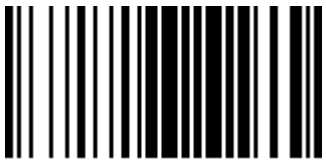
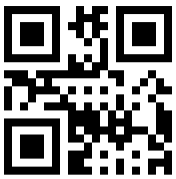
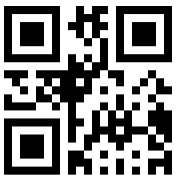
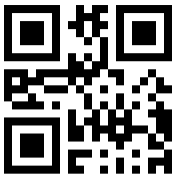
96	60	`	 %%60	 %%60
97	61	a	 %%61	 %%61
98	62	b	 %%62	 %%62
99	63	c	 %%63	 %%63
100	64	d	 %%64	 %%64
101	65	e	 %%65	 %%65
102	66	f	 %%66	 %%66
103	67	g	 %%67	 %%67

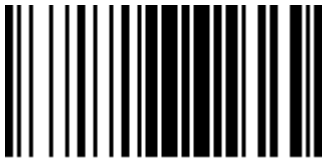
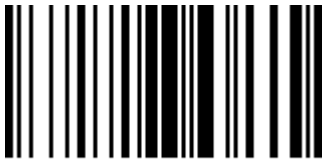
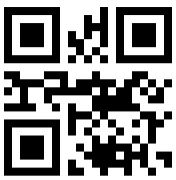
104	68	h	%%68	%%68
105	69	i	%%69	%%69
106	6A	j	%%6A	%%6A
107	6B	k	%%6B	%%6B
108	6C	l	%%6C	%%6C
109	6D	m	%%6D	%%6D
110	6E	n	%%6E	%%6E
111	6F	o	%%6F	%%6F

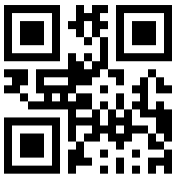
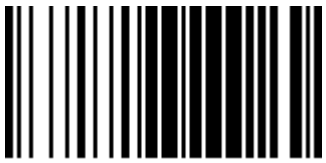
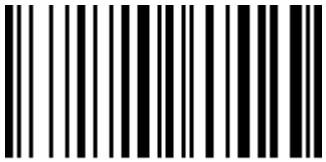
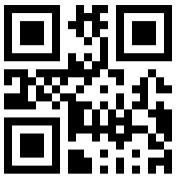
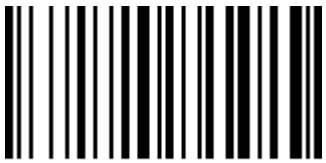
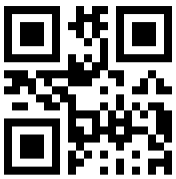
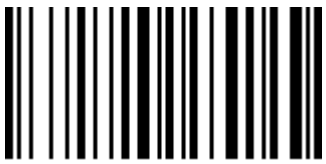
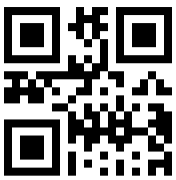
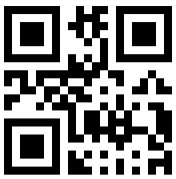
112	70	p	 %%70	 %%70
113	71	q	 %%71	 %%71
114	72	r	 %%72	 %%72
115	73	s	 %%73	 %%73
116	74	t	 %%74	 %%74
117	75	u	 %%75	 %%75
118	76	v	 %%76	 %%76
119	77	w	 %%77	 %%77

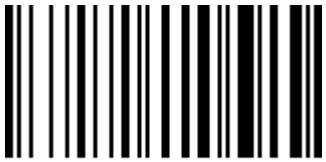
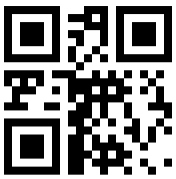
120	78	x		
121	79	y		
122	7A	z		
123	7B	{		
124	7C	|		
125	7D	}		
126	7E	~		
127	7F	DEL		

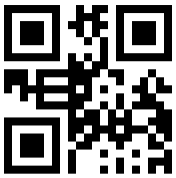
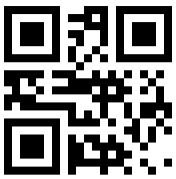
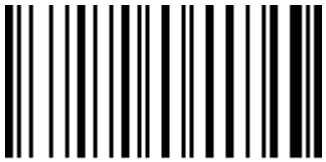
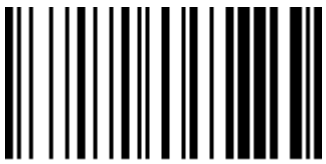
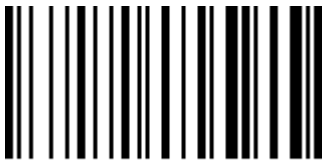
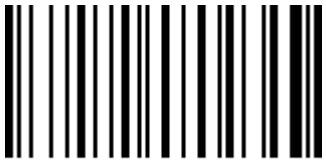
128	80	€	%%80	%%80
129	81	*Unused*	%%81	%%81
130	82	‚	%%82	%%82
131	83	ƒ	%%83	%%83
132	84	„	%%84	%%84
133	85	…	%%85	%%85
134	86	†	%%86	%%86
135	87	‡	%%87	%%87

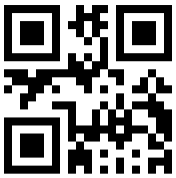
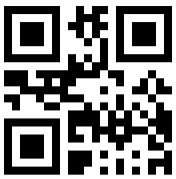
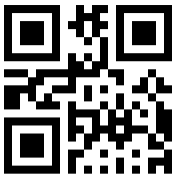
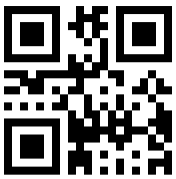
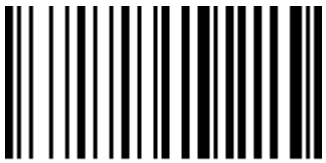
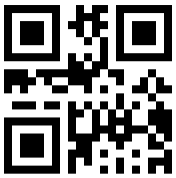
136	88	ˆ		
137	89	‰		
138	8A	Š		
139	8B	‹		
140	8C	Œ		
141	8D	*Unused*		
142	8E	Ž		
143	8F	*Unused*		

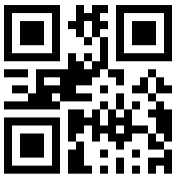
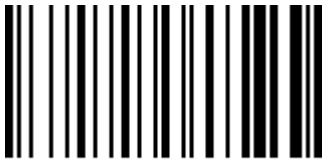
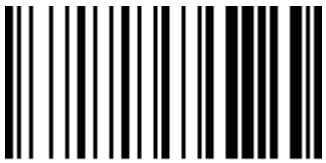
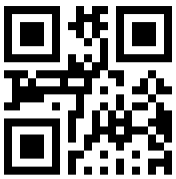
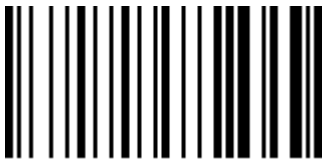
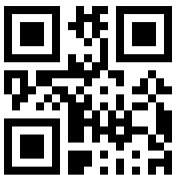
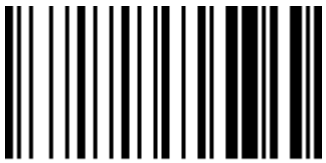
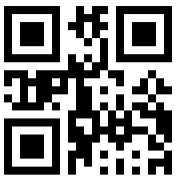
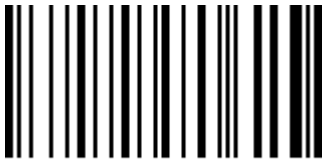
144	90	*Unused*		
145	91	‘		
146	92	’		
147	93	“		
148	94	”		
149	95	•		
150	96	–		
151	97	—		

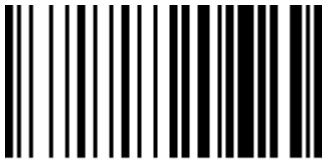
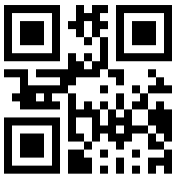
152	98	˜		
153	99	™		
154	9A	š		
155	9B	›		
156	9C	œ		
157	9D	*Unused*		
158	9E	ž		
159	9F	Ÿ		

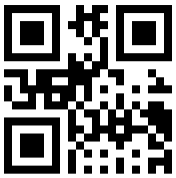
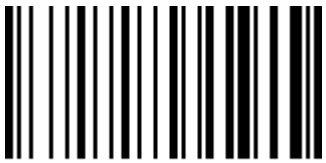
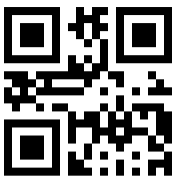
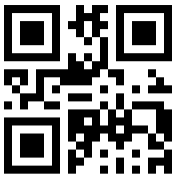
160	A0	NBSP	 %%A0	 %%A0
161	A1	¡	 %%A1	 %%A1
162	A2	¢	 %%A2	 %%A2
163	A3	£	 %%A3	 %%A3
164	A4	¤	 %%A4	 %%A4
165	A5	¥	 %%A5	 %%A5
166	A6	¦	 %%A6	 %%A6
167	A7	§	 %%A7	 %%A7

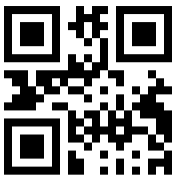
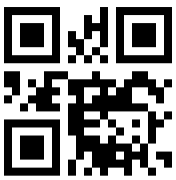
168	A8	¨		
169	A9	©		
170	AA	ª		
171	AB	«		
172	AC	¬		
173	AD	-		
174	AE	®		
175	AF	¯		

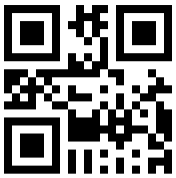
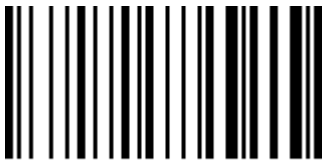
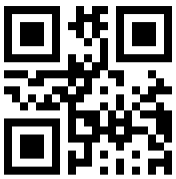
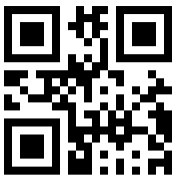
176	B0	°		
177	B1	±		
178	B2	²		
179	B3	³		
180	B4	´		
181	B5	µ		
182	B6	¶		
183	B7	·		

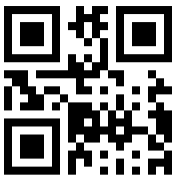
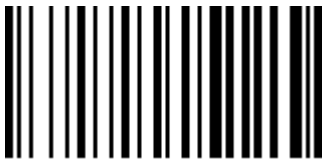
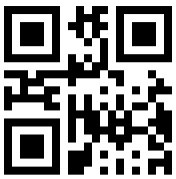
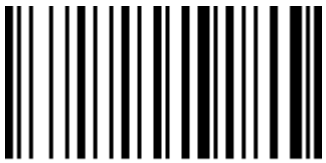
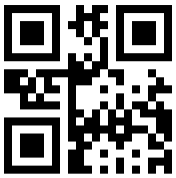
184	B8	¸		
185	B9	¹		
186	BA	º		
187	BB	»		
188	BC	¼		
189	BD	½		
190	BE	¾		
191	BF	¿		

192	C0	À		
193	C1	Á		
194	C2	Â		
195	C3	Ã		
196	C4	Ä		
197	C5	Å		
198	C6	Æ		
199	C7	Ç		

200	C8	È		
201	C9	É		
202	CA	Ê		
203	CB	Ë		
204	CC	Ì		
205	CD	Í		
206	CE	Î		
207	CF	Ï		

208	D0	Đ		
209	D1	Ñ		
210	D2	Ò		
211	D3	Ó		
212	D4	Ô		
213	D5	Õ		
214	D6	Ö		
215	D7	×		

216	D8	Ø	 %%D8	 %%D8
217	D9	Ù	 %%D9	 %%D9
218	DA	Ú	 %%DA	 %%DA
219	DB	Û	 %%DB	 %%DB
220	DC	Ü	 %%DC	 %%DC
221	DD	Ý	 %%DD	 %%DD
222	DE	Þ	 %%DE	 %%DE
223	DF	ß	 %%DF	 %%DF

224	E0	à		
225	E1	á		
226	E2	â		
227	E3	ã		
228	E4	ä		
229	E5	å		
230	E6	æ		
231	E7	ç		

232	E8	è	%%E8	%%E8
233	E9	é	%%E9	%%E9
234	EA	ê	%%EA	%%EA
235	EB	ë	%%EB	%%EB
236	EC	ì	%%EC	%%EC
237	ED	í	%%ED	%%ED
238	EE	î	%%EE	%%EE
239	EF	ï	%%EF	%%EF

240	F0	ð	%%F0	%%F0
241	F1	ñ	%%F1	%%F1
242	F2	ò	%%F2	%%F2
243	F3	ó	%%F3	%%F3
244	F4	ô	%%F4	%%F4
245	F5	õ	%%F5	%%F5
246	F6	ö	%%F6	%%F6
247	F7	÷	%%F7	%%F7

248	F8	ø	%%F8	%%F8
249	F9	ù	%%F9	%%F9
250	FA	ú	%%FA	%%FA
251	FB	û	%%FB	%%FB
252	FC	ü	%%FC	%%FC
253	FD	ý	%%FD	%%FD
254	FE	þ	%%FE	%%FE
255	FF	ÿ	%%FF	%%FF

Appendix - Character Set Action

Use the table below to find the action you want the scanner to perform with a specific character set:

HEX	DEC	ASCII	Set 0	Set 1	Set 2	Set 3	Set 4
01	1	SOH	NULL	Home	Ctrl+A	Alt+001	Numpad enter
02	2	STX	Ctrl+B	End	Ctrl+B	Alt+002	Cap lock
03	3	ETX	Ctrl+C	Up Arrow	Ctrl+C	Alt+003	Right Arrow
04	4	EOT	Custom 1	Down Arrow	Ctrl+D	Alt+004	Up Arrow
05	5	ENQ	Custom 2	Left Arrow	Ctrl+E	Alt+005	NULL
06	6	ACK	Custom 3	Right Arrow	Ctrl+F	Alt+006	NULL
07	7	BEL	Custom 4	Shift+Tab	Ctrl+G	Alt+007	Enter
08	8	BS	Back Space	Back Space	Back Space	Alt+008	Left Arrow
09	9	HT	Tab	Tab	Tab	Alt+009	Tab
0A	10	LF	Enter	Enter	Ctrl+J	Alt+010	Down Arrow
0B	11	VT	NULL	NULL	Ctrl+K	Alt+011	Tab
0C	12	FF	NULL	NULL	Ctrl+L	Alt+012	Delete
0D	13	CR	Enter	Enter	Enter	Alt+013	Enter
0E	14	SO	F1	Page Up	Ctrl+N	Alt+014	Insert
0F	15	SI	F2	Page Down	Ctrl+O	Alt+015	Esc
10	16	DLE	F3	F11	Ctrl+P	Alt+016	F11
11	17	DC1	F4	NULL	Ctrl+Q	Ctrl+Q	Home
12	18	DC2	F5	NULL	Ctrl+R	Alt+018	Print Screen
13	19	DC3	F6	NULL	Ctrl+S	Alt+019	Back Space
14	20	DC4	F7	NULL	Ctrl+T	Alt+020	Shift tab
15	21	NAK	F8	F12	Ctrl+U	Alt+021	F12
16	22	SYN	F9	F1	Ctrl+V	Alt+022	F1
17	23	ETB	F10	F2	Ctrl+W	Alt+023	F2
18	24	CAN	F11	F3	Ctrl+X	Alt+024	F3
19	25	EM	F12	F4	Ctrl+Y	Alt+025	F4

1A	26	SUB	NULL	FS	Ctrl+Z	Alt+026	F5
1B	27	Esc	Esc	F6	Ctrl+[	Alt+027	F6
1C	28	FS	ALT+028	F7	Ctrl+\	Alt+028	F7
1D	29	GS	ALT+029	F8	Ctrl+]	Alt+029	F8
1E	30	RS	NULL	F9	Ctrl+^	Alt+030	F9
1F	31	US	NULL	F10	Ctrl+_	Alt+031	F10

Appendix - Available Character Sets

To avoid scanning the wrong code by mistake, cover nearby barcodes while scanning the intended one.

Your scanner supports multiple character sets for customization. The available sets are:

Character Set 0 (Default)

Character Set 1

Character Set 2

Character Set 3

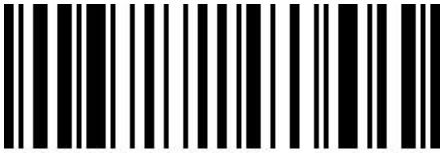
Character Set 4

Appendix - Custom Keys Main Key

The table below lists the main key values and their corresponding setup codes. When SHIFT is enabled as the modifier key, certain keys produce a different character. These are indicated in the Key column as SHIFT ON: [key].

To avoid scanning the wrong code by mistake, cover nearby barcodes while scanning the intended one.

Value	Key	Setup Code	Value	Key	Setup Code
00	NA		34	' SHIFT ON: "	
04	A		35	` SHIFT ON: ~	
05	B		36	, SHIFT ON: <	
06	C		37	. SHIFT ON: >	
07	D		38	/ SHIFT ON: ?	
08	E		39	Caps Lock	

09	F	 %%09	3A	F1	 %%3A
0A	G	 %%0A	3B	F2	 %%3B
0B	H	 %%0B	3C	F3	 %%3C
0C	I	 %%0C	3D	F4	 %%3D
0D	J	 %%0D	3E	F5	 %%3E
0E	K	 %%0E	3F	F6	 %%3F
0F	L	 %%0F	40	F7	 %%40
10	M	 %%10	41	F8	 %%41

11	N	%%11	42	F9	%%42
12	O	%%12	43	F10	%%43
13	P	%%13	44	F11	%%44
14	Q	%%14	45	F12	%%45
15	R	%%15	46	Print Screen	%%46
16	S	%%16	47	Scroll Lock	%%47
17	T	%%17	48	Pause	%%48
18	U	%%18	49	Insert	%%49

19	V	 %%19	4A	Home	 %%4A
1A	W	 %%1A	4B	Page Up	 %%4B
1B	X	 %%1B	4C	Delete	 %%4C
1C	Y	 %%1C	4D	End	 %%4D
1D	Z	 %%1D	4E	Page Down	 %%4E
1E	1	 %%1E	4F	Right Arrow	 %%4F
1F	2	 %%1F	50	Left Arrow	 %%50
20	3	 %%20	51	Down Arrow	 %%51

21	4	%%21	52	Up Arrow	%%52
22	5	%%22	53	Num Lock	%%53
23	6	%%23	54	Pad /	%%54
24	7	%%24	55	Pad *	%%55
25	8	%%25	56	Pad -	%%56
26	9	%%26	57	Pad +	%%57
27	0	%%27	58	Pad Enter	%%58
28	Enter	%%28	59	Pad 1	%%59

29	ESC	 %%29	5A	Pad 2	 %%5A
2A	Back space	 %%2A	5B	Pad 3	 %%5B
2B	Tab	 %%2B	5C	Pad 4	 %%5C
2C	Space	 %%2C	5D	Pad 5	 %%5D
2D	- SHIFT ON: _	 %%2D	5E	Pad 6	 %%5E
2E	= SHIFT ON: +	 %%2E	5F	Pad 7	 %%5F
2F	[SHIFT ON: {	 %%2F	60	Pad 8	 %%60
30	] SHIFT ON: }	 %%30	61	Pad 9	 %%61

31	\ SHIFT ON: |	%%31	62	Pad 0	%%62
33	; SHIFT ON: :	%%33	63	Pad .	%%63

Appendix - Modifier Key

To avoid scanning the wrong code by mistake, cover nearby barcodes while scanning the intended one.

Setting	Setting Code
No Modifiers	%%00
CTRL Only	%%01
SHIFT Only	%%02
SHIFT + CTRL	%%03
ALT Only	%%04
ALT + CTRL	%%05
ALT + SHIFT	%%06

ALT + SHIFT + CTRL	

Appendix - Hide Characters by Barcode Type (Basic Codes Specific)

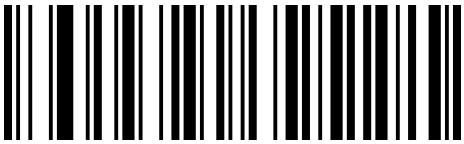
Appendix - Hide Start Characters

Hides a configurable number of characters from the start of the decoded output. If the configured value exceeds the barcode data length, all characters are hidden.

To avoid scanning the wrong code by mistake, cover nearby barcodes while scanning the intended one.

BeWaLa

UPC-E Hidden Start Characters



RdWa00

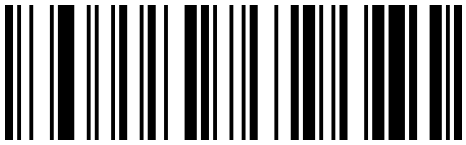
Disable Hidden Start Characters for UPC-E

BeXaLa

EAN-8 Hidden Start Characters

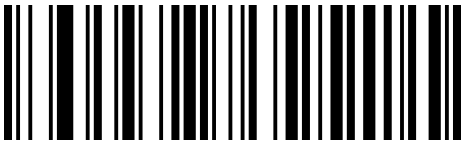
RdXa00

Disable Hidden Start Characters for EAN-8



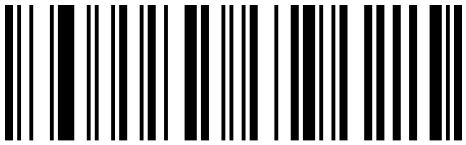
BeYaLa

UPC-A Hidden Start Characters



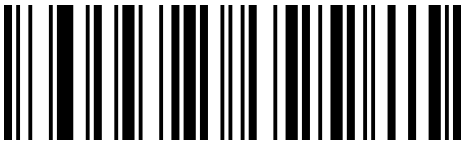
RdYa00

Disable Hidden Start Characters for UPC-A



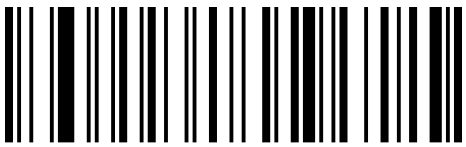
BeZaLa

EAN-13 Hidden Start Characters



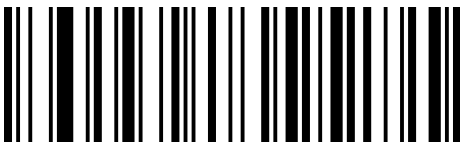
RdZa00

Disable Hidden Start Characters for EAN-13



BeAbLa

Code 39 Hidden Start Characters



RdAb00

Disable Hidden Start Characters for Code 39

BeBbLa

Codabar Hidden Start C

RdBb00

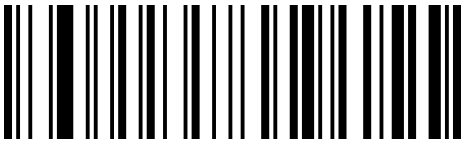
Disable Hidden Start Characters for Codabar

BeCbLa

Interleaved 2 Of 5 Hidden Start Characters

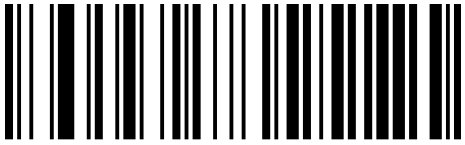
RdCb00

Disable Hidden Start Characters for Interleaved 2 Of 5



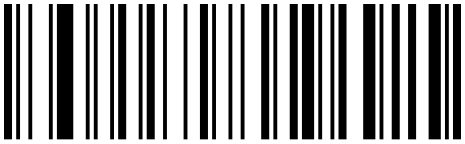
BeDbLa

Code 128 Hidden Start Characters



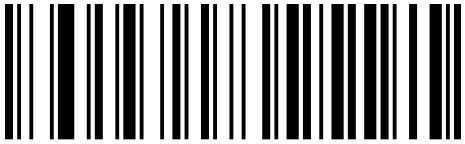
RdDb00

Disable Hidden Start Characters for Code 128



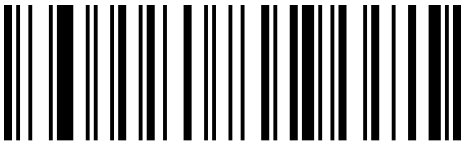
BeEbLa

Code 93 Hidden Start Characters



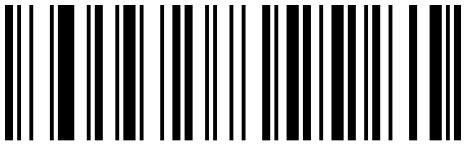
RdEb00

Disable Hidden Start Characters for Code 93



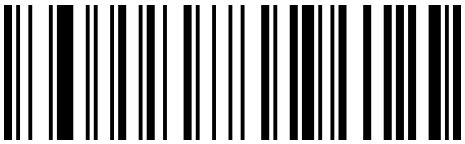
BeHbLa

QR Code Hidden Start Characters



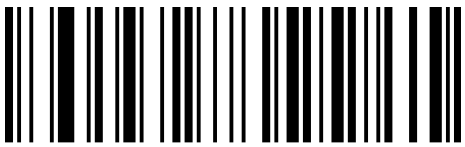
RdHb00

Disable Hidden Start Characters for QR Code



BeGbLa

Data Matrix Hidden Start Characters



RdGb00

Disable Hidden Start Characters for Data Matrix

BeFbLa

PDF417 Hidden Start Characters

RdFb00

Disable Hidden Start Characters for PDF417

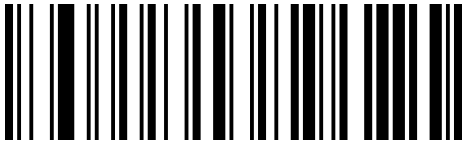
Appendix - Hide Middle Characters

Hides a contiguous block of characters from the middle of the decoded output. Both the start position and the number of characters to hide are configurable. If the start position is beyond the data length, nothing is hidden. If the length is too large, all characters from the start position to the end are hidden.

To avoid scanning the wrong code by mistake, cover nearby barcodes while scanning the intended one.

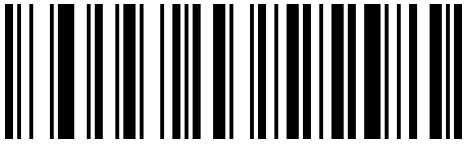
BeQbLa

Hidden Middle Data Start Position for UPC-E



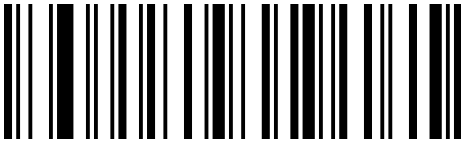
BeKcLa

Number Of Hidden Middle Characters for UPC-E



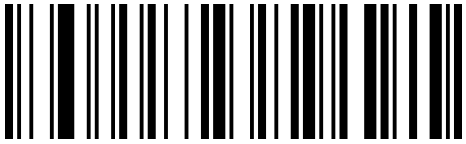
RdKc00

Disable Hidden Middle Characters for UPC-E



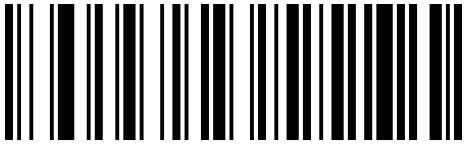
BeRbLa

Hidden Middle Data Start Position for EAN-8



BeLcLa

Number Of Hidden Middle Characters for EAN-8



RdLc00

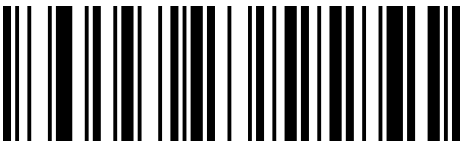
Disable Hidden Middle Characters for EAN-8

BeSbLa

Hidden Middle Data Start Position for UPC-A

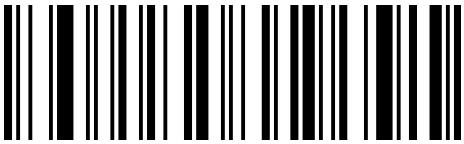
BeMcLa

Number Of Hidden Middle Characters for UPC-A



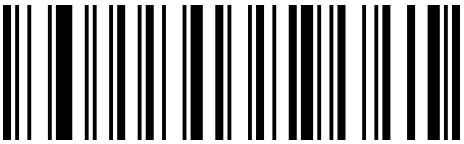
RdMc00

Disable Hidden Middle Characters for UPC-A



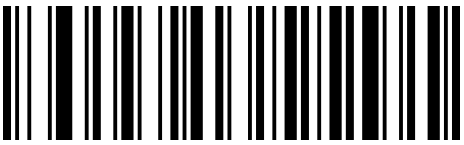
BeTbLa

Hidden Middle Data Start Position for EAN-13



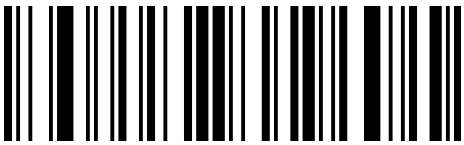
BeNcLa

Number Of Hidden Middle Characters for EAN-13



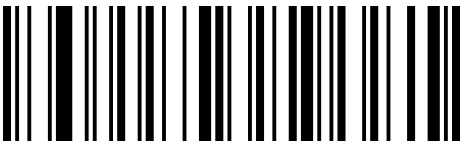
RdNc00

Disable Hidden Middle Characters for EAN-13



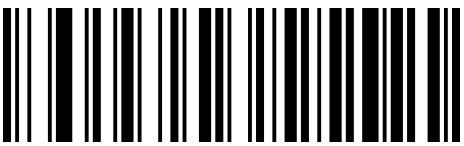
BeUbLa

Hidden Middle Data Start Position for Code 39



BeOcLa

Number Of Hidden Middle Characters for Code 39



RdOc00

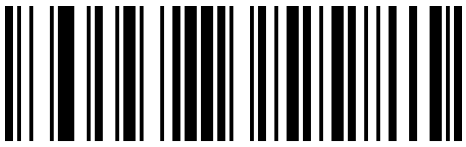
Disable Hidden Middle Characters for Code 39

BeVbLa

Hidden Middle Data Start Position for Codabar

BePcLa

Number Of Hidden Middle Characters for Codabar



RdPc00

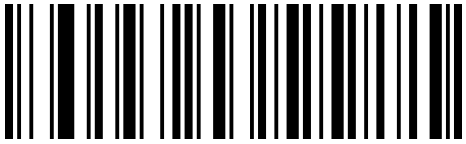
Disable Hidden Middle Characters for Codabar

BeWbLa

Hidden Middle Data Start Position for Interleaved 2 Of 5

BeQcLa

Number Of Hidden Middle Characters for Interleaved 2 Of 5

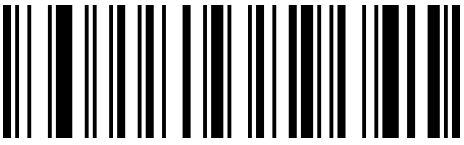


RdQc00

Disable Hidden Middle Characters for Interleaved 2 Of 5

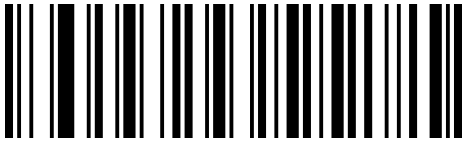
BeXbLa

Hidden Middle Data Start Position for Code 128



BeRcLa

Number Of Hidden Middle Characters for Code 128



RdRc00

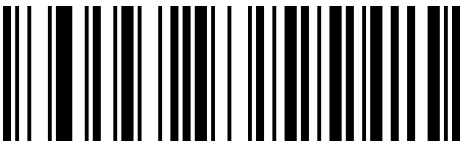
Disable Hidden Middle Characters for Code 128

BeYbLa

Hidden Middle Data Start Position for Code 93

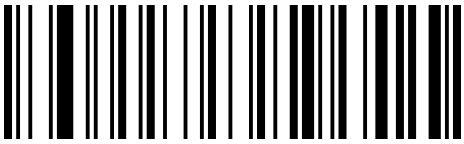
BeScLa

Number Of Hidden Middle Characters for Code 93



RdSc00

Disable Hidden Middle Characters for Code 93

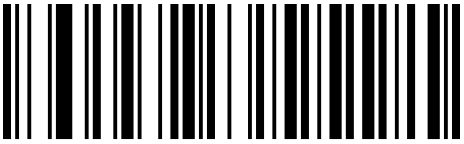


BeBcLa

Hidden Middle Data Start Position for QR Code

BeVcLa

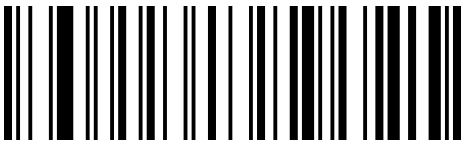
Number Of Hidden Middle Characters for QR Code



RdVc00

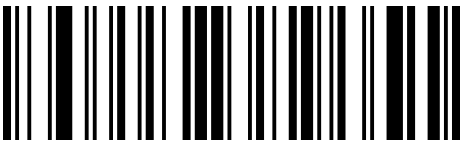
RdVc00

Disable Hidden Middle Characters for QR Code



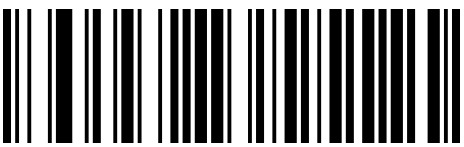
BeAcLa

Hidden Middle Data Start Position for Data Matrix



BeUcLa

Number Of Hidden Middle Characters for Data Matrix



RdUc00

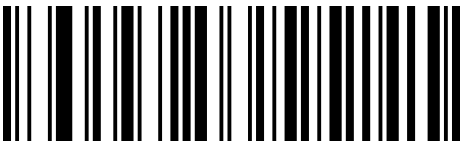
Disable Hidden Middle Characters for Data Matrix

BeZbLa

Hidden Middle Data Start Position for PDF417

BeTcLa

Number Of Hidden Middle Characters for PDF417



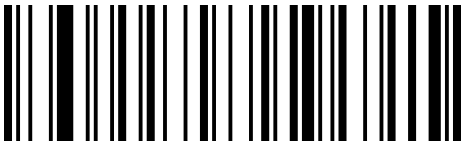
RdTc00

Disable Hidden Middle Characters for PDF417

Appendix - Hide End Characters

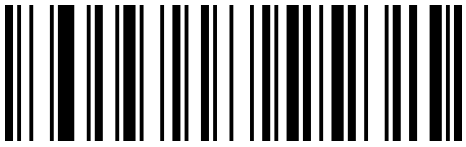
Hides a configurable number of characters from the end of the decoded output. If the configured value exceeds the barcode data length, all characters are hidden.

To avoid scanning the wrong code by mistake, cover nearby barcodes while scanning the intended one.



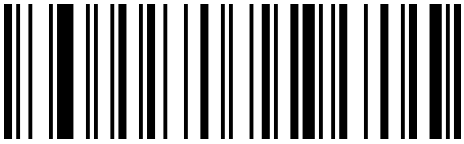
BeEdLa

UPC-E Hidden End Characters



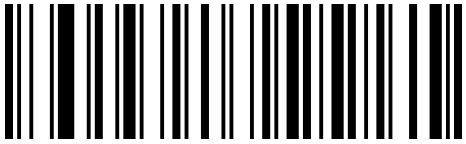
RdEd00

Disable Hidden End Characters for UPC-E



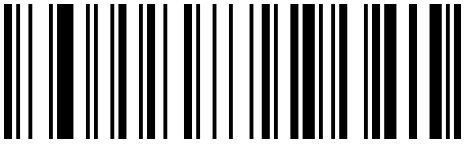
BeFdLa

EAN-8 Hidden End Characters



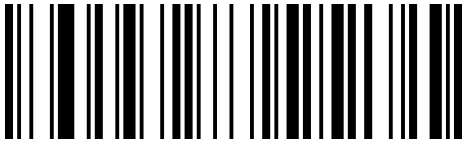
RdFd00

Disable Hidden End Characters for EAN-8



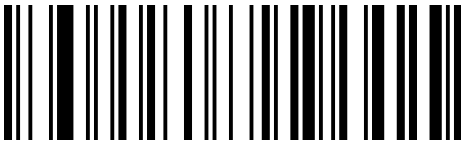
BeGdLa

UPC-A Hidden End Characters



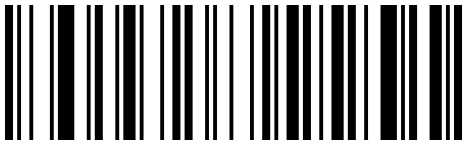
RdGd00

Disable Hidden End Characters for UPC-A



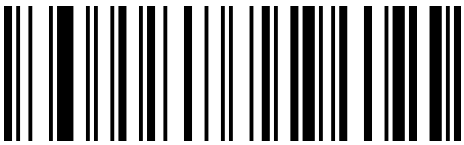
BeHdLa

EAN-13 Hidden End Characters



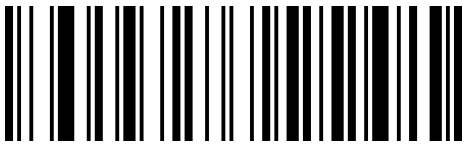
RdHd00

Disable Hidden End Characters for EAN-13



BeIdLa

Code 39 Hidden End Characters



RdId00

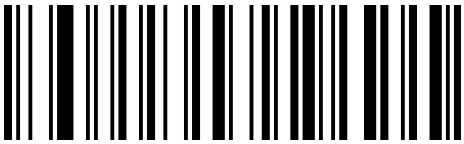
Disable Hidden End Characters for Code 39

BeJdLa

Codabar Hidden End Characters

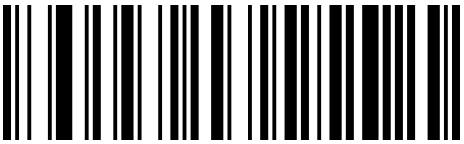
RdJd00

Disable Hidden End Characters for Codabar



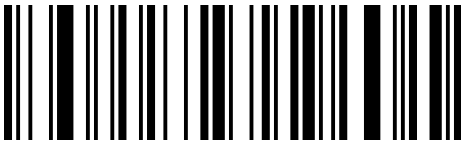
BeKdLa

Interleaved 2 of 5 Hidden End Characters



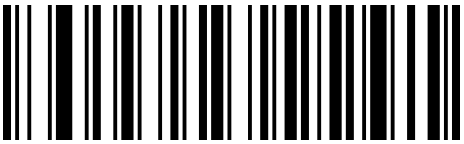
RdKd00

Disable Hidden End Characters for Interleaved 2 Of 5



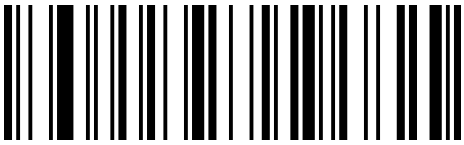
BeLdLa

Code 128 Hidden End Characters



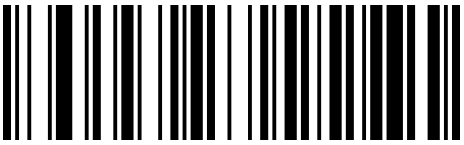
RdLd00

Disable Hidden End Characters for Code 128



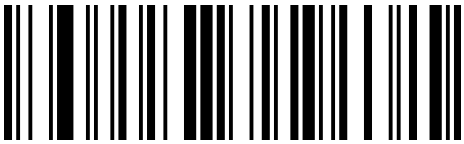
BeMdLa

Code 93 Hidden End Characters



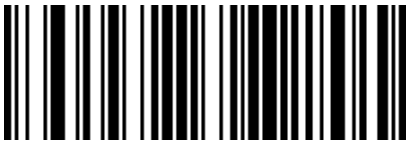
RdMd00

Disable Hidden End Characters for Code 93



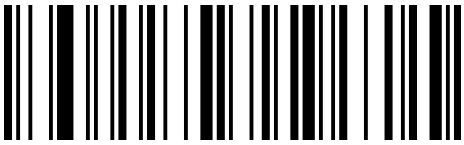
BePdLa

QR Code Hidden End Characters



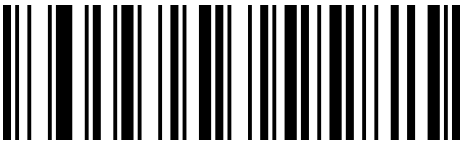
RdPd00

Disable Hidden End Characters for QR Code



BeOdLa

Data Matrix Hidden End Characters



RdOd00

Disable Hidden End Characters for Data Matrix

BeNdLa

PDF417 Hidden End Characters

RdNd00

Disable Hidden End Characters for PDF417

Appendix - Code ID & AIM ID

The table below lists the Code ID and AIM ID assigned to each supported barcode type. These identifiers can be transmitted as part of the decoded output when the corresponding prefix/suffix settings are enabled.

Number	Barcode Type	Code ID	AIM ID	Description
1	UPC-A	F	]E0	
2	UPC-A with Add-on	F	]E3	
3	UPC-E0	E	]E0	
4	UPC-E1	E	]X0	
5	UPC-E with Add-On	E	]E3	
6	EAN-8	C	]E4	
7	EAN-8 with Add-On	C	]E3	
8	EAN-13	D	]E0	
9	EAN-13 with Add-On	D	]E3	
10	ISBN	d	]E0	
11	Code 128	A	]C0	
12	GS1 128	B	]C1	
13	Code 39	I	]Am	m: 0,1,3,4,5,7
14	Code 32	f	]X0	
15	Code 93	L	]G0	
16	Code 11	1	]Hm	m: 0,1,3
17	Codabar	J	]Fm	m: 0,2,4
18	Interleaved 2 of 5	G	]Im	m: 0,1,3
19	Matrix 2 of 5	Q	]X0	
20	Industrial 2 of 5	h	]S0	
21	Standard 2 of 5	H	]R0	

22	NEC 2 of 5	y	]X0	
23	MSI Plessey	K	]Mm	0,1,2,3,5,6,7
24	Telepen	8	]Bm	m: 0,1,2,4
25	Trioptic	e	]X0	
26	BC412	}	]X0	
27	QR code	U	]Qm	m: 0-6
28	Micro QR	U	]Qm	m: 0-6
29	Data Matrix	V	]dm	m: 0-6
30	PDF417	N	]Lm	m: 0,1,2
31	Micro PDF417	O	]Lm	m: 0,1,2,3,4,5
32	Maxi Code	W	]Um	m: 0-3
33	Aztec Code	T	]zm	m: 0-9,A-C
34	Hanxin	S	]X0	
35	Pharma Code	s	]X0	
36	Codablock A	v	]Om	0,1,4,5,6
37	Codablock F	7	]Om	0,1,4,5,6
38	GS1 Databar Omnidirectional	M	]e0	
39	GS1 Databar Limited	M	]e0	
40	GS1 Databar Expanded	M	]e0	
41	GS1 Composite Code	M/B/F/E/C/D	]e0	
42	TLC 39	t	]L2	
43	Korea Post	R	]X0	
44	Australian Post	i	]X0	
45	British Post	j	]X0	
46	USPS Intelligent Mail	o	]X0	

47	Japanese Post	l	]X0	
48	Planet Code	n	]X0	
49	Postnet Code	q	]X0	
50	KIX Code	m	]X0	