## Regulatory Compliance

## FEDERAL COMMUNICATIONS COMMISSION INTERFERENCE STATEMENT

This equipment has been tested and found to comply with the limits for a Class B digital device, pursuant to part 15 of the FCC Rules. These limits are designed to provide reasonable protection against harmful interference in a residential installation. This equipment generates, uses and can radiate radio frequency energy and, if not installed and used in accordance with the instructions, may cause harmful interference to radio communications. However, there is no guarantee that interference will not occur in a particular installation. If this equipment does cause harmful interference to radio or television reception, which can be determined by turning the equipment off and on, the user is encouraged to try to correct the interference by one or more of the following measures:
-Reorient or relocate the receiving antenna. -Increase the separation between the equipment and receiver.
-Connect the equipment into an outlet on a circuit different from that to which the receiver is connected.
-Consult the dealer or an experienced radio/ TV technician for help.

CAUTION：

Any changes or modifications not expressly approved by the grantee of this device could void the user＇s authority to operate the equipment．

## RF exposure warning

The equipment complies with FCC RF exposure limits set forth for an uncontrolled environment．

The equipment must not be co－located or operating in conjunction with any other antenna or transmitter．

AS－9400BT Scanner／Cradle
Frequency： $2402 \mathrm{MHz} \sim 2480 \mathrm{MHz}$
RF Power：
Barcode Scanner－2．02dBm（EIRP）／Base－
1.21 dBm （EIRP）

Hereby，Argox Information Co．，Ltd．declares that the radio equipment type $\mathrm{AS}-9400 \mathrm{BT}$ is in compliance with the standard ETSI EN 301489－1．

經型式認證合格之低功率射頻電機，非經許
可，公司，商號或使用者均不得擅自變更頻
率，加大功率或變更原設計之特性及功能。

低功率射頻電機之使用不得影響飛航安全及干擾合法通信；經發現有干擾現象時，應立即停用，並改善至無干擾時方得繼續使用。

前項合法通信，指依電信法規定作業之無線電通信。低功率射頻電機須忍受合法通信或工業，科學及醫療用電波輻射性電機設備之干擾。

## RF EXPOSURE WARNING：

The equipment complies with FCC RF exposure limits set forth for an uncontrolled environment．

The equipment must not be co－located or operating in conjunction with any other antenna or transmitter．

[^0]
## CAUTION: EXPLOSION HAZARD

Do not disassemble, short circuit, heat the battery or dispose of in fire. Store battery pack in a proper place. Do not expose to temperature above $60^{\circ} \mathrm{C} / 140^{\circ} \mathrm{F}$. Use specified charger only. Please dispose of the used batteries following the rules or laws issued by the local government.


Note All brands and trademarks shall belong to their respective owner.


Note Specification is subject to changes without notice.

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## 1 Introduction

AS-9400BT is a cordless scanner that can read bar codes on objects or on screens. The high performance scanning engine delivers high speed and high readability, making it an ideal scanning solution for business.

- High decoding performance Fast and easy scan for 1D \& 2D bar codes
- High optical resolution Your scanner reads high density bar codes up to 3 mil for 1D (code 39) \& 7.5mil for QR code.
- Distortion processing Even if your bar code is distorted, AS-9400BT still recognizes it.
- Mobile Phone Displays Readable
- Support Interfaces of USB / USB COM / RS-232
- Using type $C$ connector at cradle for data transmission and battery recharging
- Bluetooth 5.0 Dual mode (BLE \& Classic BT+EDR)
- Data rate of up to 3 Mbps
- Auto-Sensing Support (Automatically switch on cradle)
- Windows, Android, iOS devices direct link
- Large memory for out of communication range backup


### 1.1 Unpacking

Make sure all of the following items are included in your package.
$\checkmark$ Scanner x1
$\checkmark$ Cradle $x 1$
$\checkmark$ USB cable x 1
$\checkmark$ Y cable x 1
$\checkmark$ Quick start guide x1

When you receive your scanner, open the package immediately and inspect for shipping damage. If you discover any damage, contact the shipping company and file a claim. Argox is not responsible for any damage incurred during shipping. Save all package materials for the shipping company to inspect.


Note If any item is missing, please contact your local dealer.

## 2 Get started

This chapter provides information about how to install, connect and use your scanner to do your work, and how to charge and replace your battery.

### 2.1 Charging and Installation

This section describes how to charge and set up your scanner.

### 2.1.1 Charging Your Scanner

AS-9400BT contains a lithium-ion battery that is partially charged at the factory. You might want to charge it to full before your use it. The battery life varies depending on usage.

You can charge the battery by connecting the cradle with a USB (type C) cable to your computer, or with a power supply, which charges the battery faster.
When your scanner is fully charged, your cradle's LED turns to green.

Note: The percentage of power measured is for reference only and the actual value may vary depending on the battery power error.

| Charging with | Full Charge Time |
| :--- | :--- |
| Power Supply | 4 hours |
| USB Cable (USB2.0) | 5 hours |
| USB Cable (USB3.0) | 4 hours |

Caution Keep the charging pins dry when you put your scanner on your cradle to charge the battery. Wet charging pins may cause water seeping into your cradle and shortening its life.

Be sure to fully charge your scanner before connecting it to your computer for operation. Please follow the steps below to charge the scanner.

### 2.1.2 Set up your scanner

There are two options for connecting the scanner, cradle and computer together. The following section describes the connection procedure for each of these two types of connections.

## Option 1: Connection with a USB cable

1. Connect one end (Type C) of the USB cable to the data transmission port of the cradle.
2. Connect the other end (Type A) of the USB Cable to a USB port of your computer.
Note: The are two USB cables provided in the gift box, one for connection between the cradle and your computer and the other for connection between a power supply and the cradle.

## Option 2: Connection with an RS-232 cable and a USB cable

1. Connect one end (Type C) of the Y cable to the data transmission port of your cradle.
2. Connect the USB (Type A) connector of the other end of the Y cable to a USB port of your computer and then connect the RS-232 connector of the other end of the Y cable to the RS-232 port of your computer.

### 2.2 Bluetooth Connection

## Basic Mode (HID) (default)

Configures the scanner to Human Interface Device (HID) mode. The scanner will be discoverable as a Keyboard to other Bluetooth devices.

$\mathrm{AT}+\mathrm{MODE}=2$
*Basic Mode (HID)

## Basic Mode Features:

$\cdot \mathrm{NO}$ software installation required

- Connects to most devices
-Scanner interacts with host device like a keyboard
How to pair with Bluetooth in Basic Mode (HID)?
> Android: Connect Android Device in Basic Mode (HID)

1. Power on the scanner and scan the Basic Mode (HID) barcode. The LED indicator of the scanner will be flashing in blue.
2. Touch the Bluetooth setting of your Android device.
3. Make sure the device has Bluetooth "On".
4. In the list of found devices, select "Argox Bluetooth". Tap Pair.
5. The scanner will make one long beep after Bluetooth paired and LED light will turn to solid blue (no blinking).
> Apple: Connect Apple iOS Device (HID)
6. Power on the scanner and scan the Basic Mode (HID) barcode. The LED light will be flashing in blue.
7. Touch the Bluetooth setting of Apple iOS device.
8. Make sure the device has Bluetooth "On". A Bluetooth device search will begin.
9. In the list of found devices, select "Argox Bluetooth". Tap Pair.
10. The scanner will make one beep once being connected, and its LED light will turn to solid blue (no blinking) and the scanner is ready to scan.

## > Windows: Connect Windows PC (HID)

Method 1:

1. Read Bluetooth Basic Mode (HID) (default).
2. Scan the pairing code on the charging base, the scanner will be paired and connected to the computer automatically.


The pairing code can also be found by program, see steps below:

1. Connect the charging base with the attached USB cable to your computer.
2. Execute the mini program of Bluetooth Address, and then click to get pairing code.

P.S. Please ask the sales person or download on website to get Bluetooth Address mini program.

Method 2:

1. Power on the scanner. Make sure the scanner is discoverable (unpaired).
2. Use your computers Bluetooth Settings to connect to the scanner.
3. Open Devices and Printers and select "Add a device".
4. In the device list, select "Argox Bluetooth". Click Next.
5. Follow the remaining screens to complete the wizard.
6. The scanner will make one beep once it's connected and LED light will turn to solid blue (no blinking) and is ready to scan.

## Important Notes:

- Make sure the device is in range with bluetooth.
- Scanner will power off if there's no work within 1 minute.
- Pressing the scan button will initiate the attempts to connect.

Bluetooth keyboard Upload Speed

$\mathrm{AT}+\mathrm{HIDDLY}=4$
High Speed

$\mathrm{AT}+\mathrm{HIDDLY}=10$
Medium Speed


AT + HIDDLY $=25$
Low Speed
Important Note:
Default Idle Time: Scanner will power off automatically if device is not connected within 1 min .

## Un-Pair Bluetooth:

Below are two steps of unpairing the Bluetooth from previous device completely.

1. Scan Un-pair Bluetooth HID, Scanner disconnected from current device and waits for another device to be paired.
2. Remove or Ignore "Argox Bluetooth" from your previous device.


Un-Pair Bluetooth

## BLE Mode

For Apple Devices (a software was required to work under this mode)


BLE Mode

## SPP Mode

For Windows or Android (a software was required to work under this mode)


SPP Mode

## Important Note:

If you want to shift from HID to SPP or BLE, just scan the Corresponding command barcode.

If you want to shift from SPP or BLE to HID mode, please ignore (or delete) "Argox Bluetooth" $\rightarrow$ turn off Bluetooth $\rightarrow$ scan command barcode of HID $\rightarrow$ Open the Bluetooth $\rightarrow$ repair it.

### 2.3 How to scan

AS-9400BT emits a light bar when it is scanning. This bar needs to cross the bar code horizontally to decode it.


### 2.3.1 Floodlight Control

Parameter \# 0xF2 0x02


## Lighting when Read (0x00)



Always Lighting (0x01)


Always Close
(0x02)
2.3.2 Positioning lights control (only for 2D)

Parameter \# 0xF2 0x03


Lighting when Read (0x00)
 3030031

Always Lighting (0x01)
 3030032

Always Close
(0x02)

### 2.3.3 IR Detect

By default, the IR detect function of the AS-9400BT is enabled, so when this scanner is placed on the cradle, it enters the presentation mode. To disable this feature, scan IR Detect Disable.

*IR Detect Enable (Default)

## 3 Controls and settings

Customize your scanner to work efficiently. AI-6801 offers many features to match your preferences. This chapter provides information about how to change controls and settings of your scanner.

### 3.1 Firmware Version

Read below command barcode to check scanner firmware version.

3.2 Interface Selection


Cradle Interface - USB

\%\#FFSNO $\$ 3$
Cradle Interface - Virtual COM


Cradle Interface - RS232


Cradle RS232 Baudrate- 9600 (Default)


Cradle RS232 Baudrate- 19200

## $||||||||||||||||||||||||||||||||||||||||||||||||||\mid$

Cradle RS232 Baudrate- 38400

## 

Cradle RS232 Baudrate- 57600

## $|||||||||||||||||||||||||||||||||||||||||||||||||\mid$

Cradle RS232 Baudrate- 115200

### 3.3 Barcode Programming

Argox barcode scanners are factory programmed for the most common terminal and communications settings. If you need to change these settings, programming is accomplished by scanning the bar codes in this guide. An asterisk (*) next to an option indicates the default setting.

Important Notes: Many of the command barcodes only work with a scanner in a particular connection modes.

### 3.4 LED Indicator Light

Status lights (LED) are helpful for checking your scanner's status. Both your scanner and cradle have LEDs; your scanner's LED has red, blue and green colors and your cradle's LED has blue color. The table below shows the LED behavior and the status it indicates.

Scanner Indicator Light: Red, Green
Red light when scanner is charging, green light after fully charged.

Charging Base Indicator Light: Blue
The blue light flashes when the bluetooth is not connected, and the blue light is always on when the bluetooth is connected.

| Status | Scanner LED | Cradle LED |
| :---: | :--- | :--- |
| Bluetooth <br> connected | Blue LED is <br> permanent on | Blue LED is permanent <br> on |
| Bluetooth <br> disconnected | Flashing Blue <br> LED once per <br> second | Flashing Blue LED once <br> per second |
| Charging | Red LED is <br> permanent on | Blue LED is permanent <br> on |

Full charged
Green LED is Blue LED is permanent permanent on on

Note: When the scanner that is connected is charged with power, the indicator color on the scanner may be purple (a color between blue and red).

### 3.5 Beep Indicator

One beep: normal data upload and normal power supply
One beep: normal data upload and different tones (storage mode)
Two beeps: normal data upload (low battery)
Three beeps: no data upload (no pairing)
Five beeps: no data upload (insufficient power, need to be charged)

### 3.6 Scanning Mode

### 3.6.1 *Trigger Mode (Default)

Scanning this bar code will enable the scanner to enter manual trigger mode.


Trigger Mode

### 3.6.2 Auto Sense Mode

Scanning this bar code will enable the scanner to enter auto sense mode.


Auto Sense Mode

### 3.6.3 Continuous Mode

This mode enables the engine to scan/capture, decode and transmit over and over again.


Continuous Mode

### 3.7 Keyboard Language

If you use French Keyboard, for example, scan command barcode of "French keyboard". If you use a US keyboard, you can ignore this step.

*America EN keyboard


French keyboard


Germany keyboard


Italy keyboard


Portugal keyboard


Spain keyboard



Croatia keyboard


Slovak keyboard


Denmark keyboard


Finland keyboard

\$LAN\#EL
Latin-America ES keyboard

\$LAN\#NL
Netherland keyboard

### 3.8 Data Uploading Mode

If you are heading for a working area which lies outside the Bluetooth signal range, you may activate scanner's store mode, following steps described below. Under this mode, all scanned data will be stored directly into the buffer memory of the device. Furthermore, the data entries will be permanently saved in the buffer memory prior to the manual upload into the working station, so that you may upload them when you are near your working device.

### 3.8.1 Normal Mode

By scanning the following barcode, the device leaves the offline mode, normal mode will be reinitialized.

*Normal Mode

### 3.8.2 Store Mode

By scanning the following barcode, the offline mode will be activated.


### 3.8.3 Output Stored Data

By scanning the following barcode, all data entries in the buffer memory can be manually uploaded after reconnecting to the working station.


Output Stored Data

### 3.8.4 Output Total Entry

By scanning the following barcode, the gross quantity of the uploaded data entries will be summarized.


Output Total Entry

### 3.8.5 Clear Memory

By scanning the following barcode, all data in the buffer memory will be deleted.


Clear Memory

### 3.9 Get Battery Volume

Scan below command barcode to get battery rough volume.


### 3.10 Idle time

Scanner will turn to sleep after idle/inactive for 1 min . If you want to make other idle time options, please refer to the following settings to configure your scanner.


Power Off


Disable Sleep Mode

\$RF\#ST01 30S


##  <br> \$RF\#ST20 <br> 10Mins


3.11 Convert Case

*Disable Convert Case


Up Low Case Swap (A<->a)

## 

All Upper Case (a->A)


Notes: Command barcodes from Working mode section are only applied for Bluetooth wireless mode.

### 3.12 Terminator

The scanner provides a shortcut for setting the terminating character suffix to CR or CRLF and enabling it by scanning the appropriate barcode below.


None


CR\&LF*
 3030052

CR
 3030053

TAB

### 3.13 IOS Keyboard POP UP/HIDE

During the scanning IOS keyboard can be hided or popped up by scanning below command barcode.


### 3.14 Beeper

Enable/Disable scanner to beep to indicate successful scan.

\$BUZZ\#O
BEEP OFF

\$BUZZ\# 1
*High Volume


Middle Volume

## |||||||||||||||||||| <br> Low Volume

### 3.15 Restore factory default

Scan the following barcodes one by one to restore the scanner to factory defaults. (Four steps included)

Step 1:


Step 2:


Step 3:


Step 4:

\%\#IFSNO\$B

### 3.16 Transmit Code ID Character

A code ID character identifies the code type of a scanned bar code. This can be useful when decoding more than one code type. The code ID character is inserted between the prefix character (if selected) and the decoded symbol.


Symbol Code ID Character Code ID


Aim Code ID Character AIM ID

*None

### 3.16.1 Symbol Code ID Identifiers

| A $=$ | UPC-A, UPC-E, EAN-8, EAN-13 |  | 3 J= | MSI, |
| :---: | :---: | :---: | :---: | :---: |
| $\mathrm{B}=$ | Code 39, Code 32 |  | $\mathrm{K}=$ | GS1- |
| $\mathrm{C}=$ | Codabar |  | $\mathrm{L}=$ | Book |
| $\mathrm{D}=$ | Code 128, ISBT 128 |  | $\mathrm{M}=$ | Trioptic |
| $\mathrm{E}=$ | Code 93 |  | $N=$ | Coup |
| $\mathrm{F}=$ | Interleaved 2 of 5 |  | $\mathrm{R}=$ | GS1 |
| $\mathrm{G}=$ | Discrete 2 of 5 |  | $\mathrm{S}=$ | SETU |
| $\mathrm{H}=$ | CODE11 |  |  |  |
| $\mathrm{r}=$ | PDF417 | $\mathrm{x}=$ | Maxi Cod | Code |
| $\mathrm{u}=$ | Data Matrix(DM) | $\mathrm{V}=$ | Veri Cod | ode |
| $\mathrm{q}=$ | QR | $\mathrm{c}=$ | Han Xi |  |
| $a=$ | Aztec Code |  |  |  |

### 3.16.2 AIM Code Identifiers

Each AIM Code Identifier contains the three-character string ]cm where:
] = Flag Character
$\mathrm{c}=$ Code Character (see the table below)
$\mathrm{m}=$ Modifier Character

| A | Code 39, Code 39 Full ASCII, Code 32 | S | Discrete 2 of 5, IATA 2 of 5 |
| :---: | :--- | :---: | :--- |
| C | Code 128, ISBT 128, GS1-128, <br> Coupon (Code 128 portion), Setup128 | X | Code 39 Trioptic, Bookland EAN, Han Xin |
| E | UPC/EAN, Coupon (UPC portion) | e | GS1 DataBar |
| F | Codabar | L | PDF417 |
| G | Code 93 | d | Data Matrix(DM) |
| H | Code 11 | Q | QR |
| I | Interleaved 2 of 5 | Z | Aztec Code |

### 3.17 All Symbologies

## Enable / Disable All Symbologies

If the Disable All Symbologies feature is enabled, the scanner will not be able to read any non-programming barcodes except the programming barcodes.


Disable All Symbologies


Enable All Symbologies

3.17.1 1D Symbologies

Enable / Disable1D Symbologies
If the Disable 1D Symbologies feature is enabled, the scanner will not be able to read any 1D barcodes.


Disable 1D Symbologies


Enable 1D Symbologies

### 3.17.2 2D Symbologies

Enable / Disable 2D Symbologies
If the Disable 2D Symbologies feature is enabled, the scanner will not be able to read any 2D barcodes.


Disable 2D Symbologies


Enable 2D Symbologies
3.17.3 1D Inverse Barcode

Regular barcode: Dark image on a bright background.
Inverse barcode: Bright image on a dark background.

*Disabled to read 1D reverse barcode


Enabled to read 1D reverse barcode
3.17.4 Decode UPC / EAN Supplementals UPC/EAN Supplementals are bar codes appended according to specific format conventions (e.g., UPC A+2, UPC E+2, EAN $13+2$, EAN $13+5$ ). The following options are available:

*Ignore UPC/EAN with Supplementals


Decode UPC/EAN with Supplementals


Auto discriminate UPC/EAN Supplementals

### 3.17.5 UPC-A

Enable/Disable UPC-A
To enable or disable UPC-A, scan the appropriate bar code below.


Disable UPC-A

## Transmit Preamble Character

Preamble characters (Country Code and System Character) can be transmitted as part of a UPC-A barcode. Select one of the following options for transmitting UPC-A preamble to the host device: transmit system character only or transmit system character and country code ("0" for USA).



System Character \& Country Code


# *System Character <br> <br> UPC-A Transmit Check Character <br> <br> UPC-A Transmit Check Character <br>  <br> *Transmit UPC-A Check Character 



Do Not Transmit UPC-A Check Character

## UPC-A Add-On Code

A UPC-A barcode can be augmented with a two-digit or five-digit add-on code to form a new one.

Enable 2-Digit Add-On Code / Enable 5-Digit Add-On Code: The scanner decodes a mix of UPCA barcodes with and without 2-digit/5-digit add-on codes.

Disable 2-Digit Add-On Code / Disable 5-Digit Add-On Code: The engine decodes UPC-A and ignores the add-on code when presented with a UPCA plus add-on barcode. It can also decode UPC-A barcodes without add-on codes.




*Disable 5-Digit Add-On Code

UPC-A Add-On Code Required
When UPC-A Add-On Code Required is selected, the scanner will only read UPC-A barcodes that contain addon codes.


UPC-A Add-On Code Required

*UPC-A Add-On Code Not Required

### 3.17.6 UPC-E

Enable/Disable UPC-E
To enable or disable UPC-E, scan the appropriate bar code below.


Disable UPC-E

Transmit Preamble Character
Preamble characters (Country Code and System Character) can be transmitted as part of a UPC-E barcode. Select one of the following options for transmitting UPC-E preamble to the host device: transmit system character only or transmit system character and country code (" 0 " for USA).


No System Character


System Character \& Country Code

*System Character

UPC-E Transmit Check Character
 1020031
*Transmit UPC-E Check Character
 1020030

## Do Not Transmit UPC-E Check Character

Convert UPC-E to UPC-A


Convert UPC-E to UPC-A

*Do not convert UPC-E to UPC-A

UPC-E Add-On Code
A UPC-E barcode can be augmented with a two-digit or five-digit add-on code to form a new one.

Enable 2-Digit Add-On Code/ Enable 5-Digit AddOn Code: The scanner decodes a mix of UPC-E barcodes with and without 2-digit/5-digit add-on codes.

Disable 2-Digit Add-On Code/ Disable 5-Digit Add-On Code: The scanner decodes UPC-E and ignores the add-on code when presented with a UPCE plus add-on barcode. It can also decode UPC-E barcodes without add-on codes.


Enable 2-Digit Add-On Code


*Disable 2-Digit Add-On Code


Enable 5-Digit Add-On Code
 30303EO
*Disable 5-Digit Add-On Code

## UPC-E Add-On Code Required

When UPC-E Add-On Code Required is selected, the scanner will only read UPC-E barcodes that contain addon codes.


UPC-E Add-On Code Required

*UPC-E Add-On Code Not Required
3.17.7 EAN-8

Enable/Disable EAN-8
To enable or disable EAN-8, scan the appropriate bar code below.


1000041
*Enable EAN-8


1000040
Disable EAN-8
EAN-8 Extension
Disable EAN-8 Zero Extend: Transmit EAN-8 barcodes as is.

Enable EAN-8 Zero Extend: Add five leading zeros to decoded EAN-8 barcodes to extend to 13 digits.


Enable EAN-8 Zero Extend
 1020010
*Disable EAN-8 Zero Extend

## EAN-8 Add-On Code

A EAN-8 barcode can be augmented with a two-digit or five-digit add-on code to form a new one.
Enable 2-Digit Add-On Code/ Enable 5-Digit AddOn Code: The scanner decodes a mix of EAN-8 barcodes with and without 2-digit/5-digit add-on codes.

Disable 2-Digit Add-On Code/ Disable 5-Digit Add-On Code: The scanner decodes EAN-8 and ignores the add-on code when presented with an EAN-8 plus add-on barcode. It can also decode EAN-8 barcodes without add-on codes.


Enable 2-Digit Add-On Code

*Disable 2-Digit Add-On Code
 3030411
Enable 5-Digit Add-On Code
 3030410
*Disable 5-Digit Add-On Code
UPC-A Add-On Code Required When UPC-A Add-On Code Required is selected, the scanner will only read UPC-A barcodes that contain addon codes.


UPC-A Add-On Code Required
 3030420
*UPC-A Add-On Code Not Required

### 3.17.8 UPC-E Enable/Disable UPC-E

To enable or disable UPC-E, scan the appropriate bar code below.

*Enable UPC-E


1000020

Disable UPC-E

## Transmit Preamble Character

Preamble characters (Country Code and System
Character) can be transmitted as part of a UPC-E barcode. Select one of the following options for transmitting UPC-E preamble to the host device: transmit system character only or transmit system character and country code ("0" for USA).


2030000
No System Character


System Character \& Country Code


UPC-E Transmit Check Character
 1020031
*Transmit UPC-E Check Character
 1020030
Do Not Transmit UPC-E Check Character
Convert UPC-E to UPC-A



1020000
*Do not convert UPC-E to UPC-A

## UPC-E Add-On Code

A UPC-E barcode can be augmented with a two-digit or five-digit add-on code to form a new one.

Enable 2-Digit Add-On Code/ Enable 5-Digit AddOn Code: The scanner decodes a mix of UPC-E barcodes with and without 2-digit/5-digit add-on codes.

Disable 2-Digit Add-On Code/ Disable 5-Digit Add-On Code: The scanner decodes UPC-E and ignores the add-on code when presented with a UPCE plus add-on barcode. It can also decode UPC-E barcodes without add-on codes.


Enable 2-Digit Add-On Code

*Disable 2-Digit Add-On Code


Enable 5-Digit Add-On Code

*Disable 5-Digit Add-On Code
UPC-E Add-On Code Required
When UPC-E Add-On Code Required is selected, the scanner will only read UPC-E barcodes that contain addon codes.


UPC-E Add-On Code Required

*UPC-E Add-On Code Not Required
3.17.9 EAN-8

Enable/Disable EAN-8
To enable or disable EAN-8, scan the appropriate bar code below.


Disable EAN-8
EAN-8 Extension
Disable EAN-8 Zero Extend: Transmit EAN-8 barcodes as is.

Enable EAN-8 Zero Extend: Add five leading zeros to decoded EAN-8 barcodes to extend to 13 digits.


Enable EAN-8 Zero Extend


[^1]EAN-8 Add-On Code
A EAN-8 barcode can be augmented with a two-digit or five-digit add-on code to form a new one.

Enable 2-Digit Add-On Code/ Enable 5-Digit AddOn Code: The scanner decodes a mix of EAN-8 barcodes with and without 2-digit/5-digit add-on codes.

Disable 2-Digit Add-On Code/ Disable 5-Digit Add-On Code: The scanner decodes EAN-8 and ignores the add-on code when presented with a EAN8 plus add-on barcode. It can also decode EAN-8 barcodes without add-on codes.


Enable 2-Digit Add-On Code
 3030370
*Disable 2-Digit Add-On Code


Enable 5-Digit Add-On Code
 3030380
*Disable 5-Digit Add-On Code
EAN-8 Add-On Code Required When EAN-8 Add-On Code Required is selected, the scanner will only read EAN-8 barcodes that contain addon codes.


EAN-8 Add-On Code Required

*EAN-8 Add-On Code Not Required
EAN-8 Transmit Check Character
 3030801
*Transmit EAN-8 Check Character


Do Not Transmit EAN-8 Check Character
3.17.10 EAN-13

Enable/Disable EAN-13
To enable or disable EAN-13, scan the appropriate bar code below.

*Enable EAN-13
 1000030

Disable EAN-13

## EAN-13 Add-On Code

An EAN-13 barcode can be augmented with a twodigit or five-digit add-on code to form a new one.

## Enable 2-Digit Add-On Code / Enable 5-Digit

Add-On Code: The scanner decodes a mix of EAN13 barcodes with and without 2-digit/5-digit add-on codes.

Disable 2-Digit Add-On Code / Disable 5-Digit Add-On Code: The scanner decodes EAN-13 and ignores the add-on code when presented with a EAN13 plus add-on barcode. It can also decode EAN-13 barcodes without add-on codes.


Enable 2-Digit Add-On Code


*Disable 2-Digit Add-On Code


Enable 5-Digit Add-On Code

*Disable 5-Digit Add-On Code
EAN-13 Add-On Code Required When EAN-13 Add-On Code Required is selected, the scanner will only read EAN-13 barcodes that contain add-on codes.


EAN-13 Add-On Code Required

*EAN-13 Add-On Code Not Required

EAN-13 Transmit Check Character

*Transmit EAN-13 Check Character


Do Not Transmit EAN-13 Check Character

### 3.17.11 Bookland EAN (ISBN)

Enable/Disable EAN(ISBN)
To enable or disable EAN Bookland, scan the appropriate bar code below.


1000231
Enable Bookland EAN


1000230
*Disable Bookland EAN
3.17.12 Bookland ISBN

## Enable/Disable ISBN

To enable or disable Bookland ISBN, scan the appropriate bar code below.


NO2401
Bookland ISBN-13
3.17.13 Code 128

Enable/Disable Code 128
To enable or disable Code 128, scan the appropriate bar code below.


1000101
*Enable Code 128


Disable Code 128

Code128 Transmit Check Character


Transmit Code128 Check Character

*Do Not Transmit Code128 Check Character

### 3.17.14 GS1-128 (UCC/EAN-128)

Enable/Disable GS1-128 (UCC/EAN-128)
To enable or disable GS1-128, scan the appropriate bar code below.


1040331
*Enable GS1-128


Disable GS1-128

GS1-128 Transmit Check Character


Transmit GS1-128 Check Character

*Do Not Transmit GS1-128 Check Character

### 3.17.15 ISBT 128

Enable/Disable ISBT 128
To enable or disable ISBT 128, scan the appropriate bar code below.


1000331
*Enable ISBT 128


Disable ISBT 128
3.17.16 Code39

## Enable/Disable Code 39

To enable or disable Code 39, scan the appropriate bar code below.

*Enable Code 39


Disable Code 39

## Set Length Range for Code39

The length of a code refers to the number of characters (i.e., human readable characters), including check digit(s) the code contains. Lengths for Code 39 may be set for any length, one or two discrete lengths, or lengths within a specific range.

NOTE: When setting lengths, single digit numbers must always be preceded by a leading zero.

## One Discrete Length

This option limits decodes to only those Code 39 symbols containing a selected length. Lengths are selected from the Numeric Bar Codes in appendix. For example, to decode only Code 39 symbols with 14 characters, scan Code 39 - One Discrete Length, then scan 1 followed by 4 . To change the selection or cancel an incorrect entry, scan Cancel in appendix.


Code 39 - One Discrete Length

## Two Discrete Lengths

This option limits decodes to only those Code 39 symbols containing either of two selected lengths. Lengths are selected from the Numeric Bar Codes in appendix. For example, to decode only those Code 39 symbols containing either 2 or 14 characters, select Code 39 - Two Discrete Lengths, then scan $\mathbf{0}$, $\mathbf{2}, \mathbf{1}$, and then 4. To change the selection or cancel an incorrect entry, scan Cancel in appendix.


Code 39 - Two Discrete Lengths

## Length Within Range

This option limits decodes to only those Code 39 symbols within a specified range. For example, to decode Code 39 symbols containing between 4 and 12 characters, first scan Code 39 - Length Within
Range. Then scan $\mathbf{0}, \mathbf{4}, \mathbf{1}$, and $\mathbf{2}$ according to
Numeric Bar Codes in appendix. To change the selection or cancel an incorrect entry, scan Cancel in appendix.


Code 39 - Length Within Range

## Any Length

Scan this option to decode Code 39 symbols containing any number of characters.


Code 39 - Any Length
Code 39 Check Digit Verification
When this feature is enabled, the scan engine checks the integrity of all Code 39 symbols to verify that the data complies with specified check digit algorithm. Only those Code 39 symbols which include a modulo 43 check digit are decoded. Only enable this feature if your Code 39 symbols contain a module 43 check digit.


1020041
Verify Code 39 Check Digit
 1020040
*Do Not Verify Code 39 Check Digit

Transmit Code 39 Check Digit
Scan this symbol to transmit the check digit with the data.


Transmit Code 39 Check Digit (Enable)
Scan this symbol to transmit data without the check digit.

*Do Not Transmit Code 39 Check Digit

## Enable/Disable Code 39 Full ASCII

Code 39 Full ASCII is a variant of Code 39 which pairs characters to encode the full ASCII character set.


Enable Code 39 Full ASCII

*Disable Code 39 Full ASCII
NOTE: Trioptic Code 39 and Code 39 Full ASCII cannot be enabled simultaneously. If you get an error beep when enabling Code 39 Full ASCII, disable Trioptic Code 39 and try again.

Code39 Transmit Start/Stop Character


Transmit Start/Stop Character

**Do not Transmit Start/Stop Character

### 3.17.17 Code 32

Enable/Disable Code 32
Code 32 is a variant of Code 39 used by the Italian pharmaceutical industry. Scan the appropriate bar code below to enable or disable Code 32. Code 39 must be enabled and Code 39 check character verification must be disabled for this parameter to function.

*Disable Code 32


Code 32 Prefix
Scan the appropriate bar code below to enable or disable adding the prefix character " A " to all Code 32 barcodes. Code 32 must be enabled for this parameter to function.


Enable Code 32 Prefix

### 3.17.18 Code 93

Enable/Disable Code 93
To enable or disable Code 93, scan the appropriate bar code below.

*Disable Code 93

Set Lengths for Code93
The length of a code refers to the number of characters (i.e., human readable characters), including check digit(s) the code contains. Lengths for Code 93 may be set for any length, one or two discrete lengths, or lengths within a specific range.

## One Discrete Length

Select this option to decode only those codes containing a selected length. For example, select Code 93 One Discrete Length, then scan 1, 4, to limit the decoding to only Code 93 symbols containing 14 characters. Numeric Bar Codes is in appendix. To change the selection or cancel an incorrect entry, scan Cancel in appendix.


Code 93 - One Discrete Length

## Two Discrete Lengths

Select this option to decode only those codes containing two selected lengths. For example, select Code 93 Two Discrete Lengths, then scan 0, 2, 1, 4, to limit the decoding to only Code 93 symbols containing 2 or 14 characters. Numeric Bar Codes is in appendix. To change the selection or cancel an incorrect entry, scan Cancel in appendix.


Code 93 - Two Discrete Lengths

## Length Within Range

This option sets the unit to decode a code type within a specified range. For example, to decode Code 93 symbols containing between 4 and 12 characters, first scan Code 93 Length Within Range, then scan 0, 4, 1 and 2 (single digit numbers must always be preceded by a leading zero). Numeric Bar Codes is in appendix. To change the selection or cancel an incorrect entry, scan Cancel in appendix.


Code 93 - Length Within Range
Any Length
Scan this option to decode Code 93 symbols containing any number of characters.


Code 93 Check Digit Verification

*Verify Code 93 Check Digit


Do Not Verify Code 39 Check Digit

Transmit Code 93 Check Digit


Transmit Code 93 Check Digit (Enable)

*Do Not Transmit Code 93 Check Digit

### 3.17.19 Code 11

Enable/Disable Code 11
To enable or disable Code 11, scan the appropriate bar code below.


Enable Code 11


1000120
*Disable Code 11
Set Lengths for Code 11
The length of a code refers to the number of characters (i.e., human readable characters), including check digit(s) the code contains. Set lengths for Code 11 to any length, one or two discrete lengths, or lengths within a specific range.

One Discrete Length
Select this option to decode only Code 11 symbols containing a selected length. Select the length using the Numeric Bar Codes in appendix. For example, to decode only Code 11 symbols with 14 characters, scan Code 11 - One Discrete Length, then scan 1 followed by 4. To correct an error or to change the selection, scan Cancel in appendix.


Two Discrete Lengths
Select this option to decode only Code 11 symbols containing either of two selected lengths. Select lengths using the Numeric Bar Codes in appendix. For example, to decode only those Code 11 symbols containing either 2 or 14 characters, select Code 11 Two Discrete Lengths, then scan 0, 2, 1, and then 4. To correct an error or to change the selection, scan Cancel in appendix.


Code 11 - Two Discrete Lengths

## Length Within Range

Select this option to decode a Code 11 symbol with a specific length range. Select lengths using the Numeric Bar Codes in appendix. For example, to decode Code 11 symbols containing between 4 and 12 characters, first scan Code 11 - Length Within Range. Then scan $\mathbf{0}, \mathbf{4}, \mathbf{1}$, and 2 (single digit numbers must always be preceded by a leading zero). To correct an error or change the selection, scan Cancel in appendix.

#  F3010C0D013700012 

Code 11 - Length Within Range

## Any Length

Scan this option to decode Code 11 symbols containing any number of characters within the scan engine capability.


Code 11 - Any Length

## Code 11 Check Digit Verification

This feature allows the scan engine to check the integrity of all Code 11 symbols to verify that the data complies with the specified check digit algorithm. This selects the check digit mechanism for the decoded Code 11 bar code. The options are to check for one check digit, check for two check digits, or disable the feature.

*Disable Code 11 Check Digit Verification
 2051201
Enable One Check Digit


Transmit Code 11 Check Digits
 1020141
Transmit Code 11 Check Digit(s) (Enable)

*Do Not Transmit Code 11 Check Digit(s) (Disable)

### 3.17.20 Interleaved 2 of $5 / \mathbf{I T F}$

Enable/Disable Interleaved 2 of 5
To enable or disable Interleaved 2 of 5, scan the appropriate bar code below.



## Set Lengths for Interleaved 2 of 5

The length of a code refers to the number of characters (i.e., human readable characters), including check digit(s) the code contains. Lengths for I 2 of 5 may be set for any length, one or two discrete lengths, or lengths within a specific range.

## One Discrete Length

Select this option to decode only those codes containing a selected length. For example, select I 2 of 5 One Discrete Length, then scan 1, 4, to decode only D 2 of 5 symbols containing 14 characters.
Numeric Bar Codes is in appendix. To change the selection or cancel an incorrect entry, scan Cancel in appendix.


I 2 of 5 - One Discrete Length

## Two Discrete Lengths

Select this option to decode only those codes containing two selected lengths. For example,select I 2 of 5 Two Discrete Lengths, then scan 0, 6, 1, 4, to decode only I 2 of 5 symbols containing 6 or 14 characters. Numeric Bar Codes is in appendix. To change the selection or cancel an incorrect entry, scan Cancel in appendix.


I 2 of 5 - Two Discrete Lengths

## Length Within Range

Select this option to decode only codes within a specified range. For example, to decode I 2 of 5 symbols containing between 4 and 12 characters, first scan I 2 of 5 Length Within Range, then scan $0,4,1$ and 2 (single digit numbers must always be preceded by a leading zero). Numeric Bar Codes is in appendix. To change the selection or cancel an incorrect entry, scan Cancel in appendix.


I 2 of 5 - Length Within Range

Any Length
Scan this option to decode I 2 of 5 symbols containing any number of characters.

NOTE Selecting this option may lead to misdecodes for $I 2$ of 5 codes.


I 2 of 5 - Any Length

I 2 of 5 Check Digit Verification


Verify I 2 of 5 Check Digit


2051E00
*Do Not Verify I 2 of 5 Check Digit
Transmit I 2 of 5 Check Digit


1020211
Transmit I 2 of 5 Check Digit (Enable)


1020210
*Do Not Transmit I 2 of 5 Check Digit

## Enable/Disable ITF14

To enable or disable ITF14, scan the appropriate bar code below.


Transmit ITF14 Check Digit
 3030441
Transmit ITF14 Check Digit (Enable)

*Do Not Transmit ITF14 Check Digit

### 3.17.21 Discrete 2 of $5 /$ Industrial 2 of 5/IND25

## Enable/Disable Discrete 2 of 5

To enable or disable Discrete 2 of 5, scan the appropriate bar code below.


Enable Discrete 2 of 5


## Set Lengths for Discrete 2 of 5

The length of a code refers to the number of characters (i.e., human readable characters), including check $\operatorname{digit}(\mathrm{s})$ the code contains. Lengths for D 2 of 5 may be set for any length, one or two discrete lengths, or lengths within a specific range.

## One Discrete Length

Select this option to decode only those codes containing a selected length. For example, select D 2 of 5 One Discrete Length, then scan 1, 4, to decode only D 2 of 5 symbols containing 14 characters.
Numeric Bar Codes is in appendix. To change the selection or cancel an incorrect entry, scan Cancel in appendix.


D 2 of 5 - One Discrete Length

## Two Discrete Lengths

Select this option to decode only those codes containing two selected lengths. For example, select D 2 of 5 Two Discrete Lengths, then scan $0,2,1,4$, to decode only D 2 of 5 symbols containing 2 or 14 characters. Numeric Bar Codes is in appendix. To change the selection or cancel an incorrect entry, scan Cancel in appendix.


D 2 of 5 - Two Discrete Lengths

## Length Within Range

Select this option to decode codes within a specified range. For example, to decode D 2 of 5 symbols containing between 4 and 12 characters, first scan D 2 of 5 Length Within Range, then scan 0, 4, 1 and 2 (single digit numbers must be preceded by a leading zero). Numeric Bar Codes is in appendix. To change the selection or cancel an incorrect entry, scan Cancel in appendix.


D 2 of 5 - Length Within Range

Any Length
Scan this option to decode D 2 of 5 symbols containing any number of characters.

NOTE Selecting this option may lead to misdecodes for D 2 of 5 codes.


D 2 of 5 - Any Length
Discrete 2 of 5 Check Digit Verification


Verify D 2 of 5 Check Digit

*Do Not Verify D 2 of 5 Check Digit
Transmit Discrete 2 of 5 Check Digit
 3030491
Transmit D 2 of 5 Check Digit (Enable)

*Do Not Transmit D 2 of 5 Check Digit
3.17.22 Matrix 25

Enable/Disable Matrix 25
To enable or disable Matrix 25, scan the appropriate bar code below.


Enable Matrix 25

*Disable Matrix 25
Matrix 25 Check Digit Verification


3030211
Verify Matrix 25 Check Digit

*Do Not Verify Matrix 25 Check Digit

Transmit Matrix 25 Check Digit
 3030221
Transmit Matrix 25 Check Digit (Enable)

*Do Not Transmit Matrix 25 Check Digit

## Set Lengths for Matrix 25

The length of a code refers to the number of characters (i.e., human readable characters), including check digit(s) the code contains. Lengths for Matrix 25 may be set for any length, one or two discrete lengths, or lengths within a specific range.

## One Discrete Length

Select this option to decode only those codes containing a selected length. For example, select Matrix 25 One Discrete Length, then scan 1, 4 , to decode only Matrix 25 symbols containing 14 characters. Numeric Bar Codes is in appendix. To change the selection or cancel an incorrect entry, scan Cancel in appendix.


Matrix 25 - One Discrete Length

Two Discrete Lengths
Select this option to decode only those codes containing two selected lengths. For example, select Matrix 25 Two Discrete Lengths, then scan 0, 2, 1, 4, to decode only Matrix 25 symbols containing 2 or 14 characters. Numeric Bar Codes is in appendix. To change the selection or cancel an incorrect entry, scan Cancel in appendix.


Matrix 25 - Two Discrete Lengths

## Length Within Range

Select this option to decode codes within a specified range. For example, to decode Matrix 25 symbols containing between 4 and 12 characters, first scan Matrix 25 Length Within Range, then scan 0, 4, 1 and 2 (single digit numbers must be preceded by a leading zero). Numeric Bar Codes is in appendix. To change the selection or cancel an incorrect entry, scan Cancel in appendix.
 F3118081F50000001

Matrix 25 - Length Within Range Any Length
Scan this option to decode Matrix 25 symbols containing any number of characters.

NOTE Selecting this option may lead to misdecodes for Matrix 25 codes.

Matrix 25 - Any Length

### 3.17.23 Standard 25/IATA 25

Enable/Disable Standard 25
To enable or disable Standard 25, scan the appropriate bar code below.


3030230
*Disable Standard 25


Enable Standard 25

Standard 25 Check Digit Verification

*Disable Standard 25 Check Digit Verification


Enable Standard 25 Check Digit Verification
Standard 25 Transmit Check Character

*Disable Standard 25 Transmit Check Character


Enable Standard 25 Transmit Check Character

## Set Lengths for Standard 25

The length of a code refers to the number of characters (i.e., human readable characters), including check digit(s) the code contains. Lengths for Standard 25 may be set for any length, one or two discrete lengths, or lengths within a specific range.

One Discrete Length
Select this option to decode only those codes containing a selected length. For example, select Standard 25 One Discrete Length, then scan 1, 4, to decode only Standard 25 symbols containing 14 characters. Numeric Bar Codes is in appendix. To change the selection or cancel an incorrect entry, scan Cancel in appendix.


Standard 25 - One Discrete Length

## Two Discrete Lengths

Select this option to decode only those codes containing two selected lengths. For example, select Standard 25 Two Discrete Lengths, then scan 0, 2, $\mathbf{1 , 4}$, to decode only Standard 25 symbols containing 2 or 14 characters. Numeric Bar Codes is in appendix. To change the selection or cancel an incorrect entry, scan Cancel in appendix.


Standard 25 - Two Discrete Lengths

## Length Within Range

Select this option to decode codes within a specified range. For example, to decode Standard 25 symbols containing between 4 and 12 characters, first scan
Standard 25 Length Within Range, then scan 0, 4, 1 and 2 (single digit numbers must be preceded by a leading zero). Numeric Bar Codes is in appendix. To change the selection or cancel an incorrect entry, scan Cancel in appendix.
 F3118283F50000003

Standard 25 - Length Within Range
Any Length
Scan this option to decode Standard 25 symbols containing any number of characters.
NOTE Selecting this option may lead to misdecodes for Standard 25 codes.


### 3.17.24 Codabar

## Enable/Disable Codabar

To enable or disable Codabar, scan the appropriate bar code below.


Enable Codabar


Set Lengths for Codabar
The length of a code refers to the number of characters (i.e., human readable characters), including check digit(s) the code contains. Lengths for Codabar may be set for any length, one or two discrete lengths, or lengths within a specific range.

## One Discrete Length

Select this option to decode only those codes containing a selected length. For example, select Codabar One Discrete Length, and then scan 1, 4, to decode only Codabar symbols containing 14 characters. Numeric Bar Codes is in appendix. To change the selection or cancel an incorrect entry, scan Cancel in appendix.


Codabar - One Discrete Length Codabar

## Two Discrete Lengths

This option sets the unit to decode only those codes containing two selected lengths. For example, select Codabar Two Discrete Lengths, and then scan 0, 2, $\mathbf{1 , 4}$, to decode only Codabar symbols containing 6 or 14 characters. Numeric Bar Codes is in appendix. To change the selection or cancel an incorrect entry, scan Cancel in appendix.


Codabar - Two Discrete Lengths Codabar

## Length Within Range

Select this option to decode a code within a specified range. For example, to decode Codabar symbols containing between 4 and 12 characters, first scan Codabar Length Within Range, then scan 0, 4, 1 and 2 (single digit numbers must always be preceded by a leading zero). Numeric Bar Codes is in appendix. To change the selection or cancel an incorrect entry, scan Cancel in appendix.


Codabar - Length Within Range -

Any Length
Scan this option to decode Codabar symbols containing any number of characters.


Codabar - Any Length Codabar
Codabar Check Digit Verification

*Disable Codabar Check Digit Verification


Enable Codabar Check Digit Verification
Codabar Transmit Check Character


3030400
*Disable Codabar Transmit Check Character


Start/Stop Character Format
You can choose your desired start/stop character format by scanning the appropriate barcode below.

*ABCD/ABCD as the Start/Stop Character


ABCD/TN*E as the Start/Stop Character

*Start/Stop Character in Uppercase


Start/Stop Character in Lowercase
3.17.25 MSI

Enable/Disable MSI
To enable or disable MSI, scan the appropriate bar code below.


Enable MSI
 1000140
*Disable MSI

## Set Lengths for MSI

The length of a code refers to the number of characters (i.e., human readable characters) the code contains, and includes check digits. Lengths for MSI can be set for any length, one or two discrete lengths, or lengths within a specific range.

## One Discrete Length

Select this option to decode only those codes containing a selected length. For example, select MSI Plessey One Discrete Length, then scan 1, 4, to decode only MSI Plessey symbols containing 14 characters. Numeric Bar Codes is in Appendix.


MSI - One Discrete Length

## Two Discrete Lengths

Select this option to decode only those codes containing two selected lengths. For example, select MSI Plessey Two Discrete Lengths, then scan 0, 6, 1, 4, to decode only MSI Plessey symbols containing 6 or 14 characters. Numeric Bar Codes is in appendix. To change the selection or cancel an incorrect entry, scan Cancel in appendix.


MSI - Two Discrete Lengths

## Length Within Range

Select this option to decode codes within a specified range. For example, to decode MSI symbols containing between 4 and 12 characters, first scan MSI Length Within Range, then scan 0, 4, 1 and 2 (single digit numbers must always be preceded by a leading zero). Numeric Bar Codes is in appendix. To change the selection or cancel an incorrect entry, scan Cancel in appendix.


MSI - Length Within Range

Any Length
Scan this option to decode MSI Plessey symbols containing any number of characters.
NOTE Selecting this option may lead to misdecodes for MSI codes.
 FOO1OF10013700014

MSI - Any Length

MSI Check Character Verification

*One Check Character


Two Check Characters
MSI Transmit Check Character



1020130
*Do Not Transmit Check Character

### 3.17.26 GS1 DataBar/RSS <br> Enable/Disable GS1 DataBar-14

To enable or disable GS1 DataBar-14, scan the appropriate bar code below.


1000351
Enable GS1 DataBar-14


Enable/Disable GS1 DataBar Limited
To enable or disable GS1 DataBar Limited, scan the appropriate bar code below.


1000361
Enable GS1 DataBar Limited

*Disable GS1 DataBar Limited
Enable/Disable GS1 DataBar Expanded
To enable or disable GS1 DataBar Expanded, scan the appropriate bar code below.


Enable GS1 DataBar Expanded


1000370
*Disable GS1 DataBar Expanded
3.17.27 PDF417

Enable/Disable PDF417
To enable or disable PDF417, scan the appropriate bar code below.


Disable PDF417


## PDF 417 Twin Code

PDF417 twin code is 2 PDF417 barcodes paralleled vertically or horizontally. They must both be either regular or inverse barcodes. They must have similar specifications and be placed closely together.

There are 3 options for reading PDF417 twin codes: Single PDF417 Only: Read either PDF417 code. Twin PDF417 Only: Read both PDF417 codes. Both Single \& Twin: Read both PDF417 codes. If successful, transmit as twin PDF417 only. Otherwise, try single PDF417 only.

*Single PDF417 Only


Twin PDF417 Only


Both Single \& Twin
Read Normal Phase / Phase Reversal




Read Normal Phase / Phase Reversal
3.17.28 QR

Read normal phase / phase reversal / mirror image picture

## Enable/Disable QR

To enable or disable QR , scan the appropriate bar code below.


Disable QR Code
 1003251
*Enable QR Code
QR Twin Code
 3030650
*Single QR Only
 3030651

Twin QR Only
 3030652

Enable/Disable QR ECI Output

*Disable QR ECI Output
 3030661

Enable QR ECI Output
Read Normal Phase / Phase Reversal

*Read Normal Phase
 3030671

Read Phase Reversal
 3030672
Read Normal Phase / Phase Reversal

### 3.17.29 Data Matrix (DM)

Scan normal or mirror image picture.
Enable/Disable Data Matrix (DM)
To enable or disable Data Matrix (DM), scan the appropriate bar code below.


1003241
*Enable Data Matrix

## Data Matrix Twin Code <br>  <br> 30306A0 <br> *Single Data Matrix Only



Twin Data Matrix Only


Both Single \& Twin

Enable/Disable Data Matrix ECI Output
 3030600
*Disable Data Matrix ECI Output
 $30306 \subset 1$
Enable Data Matrix ECI Output

Read Normal Phase/ Phase Reversal
 30306B0
*Read Normal Phase


30306B1
Read Phase Reversal


Read Normal Phase / Phase Reversal

### 3.17.30 Maxi Code

Enable/Disable Maxi Code
To enable or disable Maxi Code, scan the appropriate bar code below.


1003260
*Disable MaxiCode


Enable MaxiCode
3.17.31 Aztec Code

## Enable/Disable Aztec Code

To enable or disable Aztec Code, scan the appropriate bar code below.


1003280
*Disable Aztec Code


1003281
Enable Aztec Code

### 3.17.32 Han Xin Code

Enable/Disable Han Xin Code
To enable or disable Han Xin Code, scan the appropriate bar code below.


10032 FO
*Disable Han Xin Code


10032 F1
Enable Han Xin Code

Han Xin Twin Code

*Single Han Xin Only


Twin Han Xin Only
 3030702

Both Single \& Twin
Read Normal Phase/ Phase Reversal

*Read Normal Phase



Read Normal Phase / Phase Reversal

### 3.17.33 Plessey

## Enable/Disable Plessey

To enable or disable Plessey, scan the appropriate bar code below.


Enable Plessey

*Disable Plessey
Check Character Verification


Enable Character Verification


*Disable Character Verification

Transmit Check Character


Transmit Check Character

*Do Not Transmit Check Character

### 3.17.34 Brazil Bank Code

## Enable/Disable Brazil Bank Code

It's only applied to 1D barcode. To enable or disable Han Xin Code, scan the appropriate bar code below.


Enable Brazil Bank Code

*Disable Brazil Bank Code
3.17.35 COMPOSITE

## Enable/Disable COMPOSITE

To enable or disable Plessey, scan the appropriate bar code below.


Enable COMPOSITE Code


### 3.17.36 EAN/UCC

Enable/Disable EAN/UCC
To enable or disable EAN/UCC, scan the appropriate bar code below.


Enable EAN/UCC Code

*Disable EAN/UCC Code

4 Unique Device Identification (UDI) Setting
The U.S. Food and Drug Administration (FDA) created unique device identification, often abbreviated UDI, a rule that requires medical device manufacturers to update their products with a unique device identifier that includes both device and production identifiers (such as expiration date and lot or serial number).


6063C01
Enable

### 4.1 NMVS Connection Compatibility <br>  <br> \$KEY\#M1

$<0 \times 20$ Combine-Key ON


ALT Global Key

## 5. Troubleshooting

You might encounter some issues when you scan bar codes. This chapter provides information that helps you fix common issues.

### 5.1 Scanner issues

My scanner doesn't emit the aiming pattern.

- Did you charge your scanner?
- Did you turn off the aiming pattern?
- Your battery wears out. Replace the battery and make sure the new battery is charged.
- Your scanner is waiting your computer to acknowledge data and doesn't receive any response. Unplug your cradle's cable (USB or RS-232) and connect it again.
- Check your USB cable and power supply by connecting them to other compatible devices and test if they work properly. If not, replace them and charge your scanner again.


### 5.2 Bar code issues

My scanner doesn't read the bar code properly.

- Reset your scanner.
- Check the quality of your bar codes. Wrinkled, smudged, blurred or torn bar codes won't be read by your scanner.
- The reading window of your scanner may be dirty and block the field of view. Clean the reading window.


## The data isn't sent to my computer.

- Did you establish the connection between your scanner and cradle?
- Did your scanner connect to other Bluetooth device?
- Make sure the USB cable is tightly plugged into your cradle and computer.
- Your scanner is connecting to another cradle. Break their connection and connect your scanner to your cradle.

My scanner doesn't decode the bar code, but the bar code type is supported.

- Did you turn on Read for the bar code type?
- The density of your bar code may be too high for your scanner to decode.


## 6. Specifications

| Standard Feature |  |
| :--- | :--- |
| Symbologies | 1D: |
|  | Code11, Code39, Code93, Code32 |
|  | (Pharmaceutical), Code128 (GS1-128), |
|  | ISBT-128, Codabar (NW7), Interleaved |
|  | 2of 5, Industrial 2 of 5, Discrete 2 of 5 |
|  | (DTF), IATA 2 of 5, Matrix 2of 5, |
|  | EAN/JAN-13, plus supplement, |
|  | EAN/JAN-8, plus supplement, UPCA, |
|  | plus supplement, UPCE, plus supplement, |
|  | UPCE1, ISBN (Bookland), MSI |
|  | PlesseyCode, GS1 Databar RSS14, GS1 |
|  | Databar Limited, GS1 Databar |
|  | Omnidirectional, GS1 Databar Expanded |
|  | 2D: |
|  | GS1 Databar Expanded Stacked, GS1 |
|  | Databar RSS14 Stacked, PDF417, |
|  | MicroPDF417, Composite Codes (CC-A, |
|  | CC-B, CC-C/CC-B, CC-C), Aztec, |
|  | MaxiCode, DataMatrix/ECC 200, QR |
|  | Code, Micro QR Code, GS1 DataMatrix |
|  | Code 39: 40mm~165mm (5mil) |
|  | EAN-13: 50mm~365mm (13mil) |
|  | Data Matrix: 35mm~115mm (10mil) |
|  | QR Code: 35mm-145mm (15mil) |
|  | PDF 417: 45mm-115mm (6.67mil) |


| CPU | 32 bit high resolution |
| :--- | :--- |
| Characteristics | Scanner: $90 \mathrm{~mm} \times 60 \mathrm{~mm} \times 160 \mathrm{~mm}$ |
| Dimensions | Base: $110 \mathrm{~mm} \times 74 \mathrm{~mm} \times 36 \mathrm{~mm}$ |$|$| Working Voltage | 3.7V DC |
| :--- | :--- |
| Current | working 350mA(max) $+-5 \%$ |
| Rated power <br> consumption | $1295 \mathrm{mw}(\mathrm{max})+-5 \%$ |
| Charging Time | $4 \sim 5$ hours |
| Scans per Charge | About 25000 times |
| Trigger Switch | $>1,000,000$ cycles |
| Light Source | CMOS Sensor <br> $(640 \times 480$ array image sensor) |
| Motion Tolerance | 5 in/s (127 mm/s) |
| Print Contrast <br> Signal | $\geq 25 \%$ |
| Supported <br> Connection | Bluetooth 5.0 Dual mode (BLE \& Classic |

Working $\quad$ about 100 m (in open space)
Distance

| Battery Capacity | 2000mAh |
| :--- | :--- |
| Interface | USB-HID, USB-Virtual COM |
| Indication | LED, Beeper |
| Frequency Range | 2402-2480MHz |
| Max. RF <br> Output Power | Scanner: 2.02 dBm (EIRP) <br> Base: 1.21 dBm (EIRP) |
| Type <br> of Modulation | GFSK |
| Data Rate | 1 Mbps |
| Quantity <br> of Channels | 40 |
| Channel <br> Separation | 2 MHz |
| Type of Antenna | PCB Antenna |
| Antenna Gain | 2.0 dBi |
| Performance |  |


| Resolution | 1D $>=3$ mil (Code 39) |
| :--- | :--- |
|  | 2D $>=7.5$ mil ( QR code $)$ |


| Scan Rate | 60 fps |
| :--- | :--- |
| Scan Angle | Yaw $/$ Skew $45^{\circ}$ \& Pitch $60^{\circ}$ |
| Environment |  |


| Temperature | Operating: $-10^{\circ} \mathrm{C}-45^{\circ} \mathrm{C}$ <br> Storage: $-20^{\circ} \mathrm{C}-60^{\circ} \mathrm{C}$ |
| :--- | :--- |
| Humidity | $5 \%$ to $85 \%$ relative humidity (non- <br> condensing) |

Regulatory
Regulatory
Approvals
CE, CE RED, FCC, NCC, BSMI, RoHS
*Argox reserves the right to enhance and modify the specifications without prior notice. Please check them from Argox sales representative for most updated specifications.

## 7. Pin Assignments

USB (Type-C):


RS232 + USB:


## Appendix

Numeric Bar Codes

|  |  |
| :---: | :---: |
|  |  |
|  |  |
|  |  |
|  |  |
|  |  |



## Cancel Barcode

To change the selection or cancel an incorrect entry, scan the barcode below.


Cancel

## Hide Prefix or suffix digits

The start/middle/end of barcode chars can be hidden. After scan below hide set barcode, scan a doubledigit hexadecimal number that you want to hide char length ( $00 \sim$ FF e.g. hide length 4, scan 0, 4).


SSCAN\#5
Hide Barcode Start Chars


SSCAN\#6
Hide Barcode Middle Char Start

## |||||||||||||||||||||||||||||||| SSCAN\#7

Hide Barcode Middle Chars

## ||||||||||||||||||||||||||||||||| SSCAN\#8 <br> Hide Barcode End Chars

## Output Format

To change the Scan Data Transmission Format, scan one of the eight bar codes corresponding to the desired format.


Enable Hide Barcode Start Char
 SDATA\#4
Enable Hide Barcode Middle Char

##  <br> SDATA\#3

Enable Hide Barcode End Char

## To Hide chars of barcode Start/Middle/End:

## Procedures

1. Scan the Hide Barcode Start / Middle Start / Middle length / End Chars symbol.
2. Determine the hex value for the length you wish to enter (hide 4 chars, scan 0,4 ; hide 12 chars, scan 0,C).
3. Scan the 2 digit hex value from the Numeric Bar Codes.
4. Scan the output format to enable or cancel hide char function.

## Custom prefix and suffix

Maximum 20 prefixes and 20 suffixes can be added to scan data for use in data editing. To set these values, scan a double-digit hexadecimal number (i.e. two bar codes) that corresponds to ASCII values. See the Numeric Bar Codes and the Table of ASCII Character Equivalents that are given in Appendix.

## To Add a Prefix or Suffix:

1. Scan command barcode of "Add Prefix" or "Add Suffix".
2. Check the prefix or suffix hex value from the ASCII Chart.
3. Scan the 2 digit hex value from the Numeric Bar Codes.
4. Repeat Steps 2 and 3 for all the prefix or suffix that you want to add.
5. Scan the output format to enable or disable prefix/suffix output.

## ||||||||||||||||||||||||||||| SSCAN\#2 <br> Add Prefix

## |||||||||||||||||||||||||| SSCAN\#1 <br> Add Suffix



SSCAN\#4
Clear All Prefix


Numeric Bar Codes
||||||||||||||||||||||||||||

|||||||||||||||||||||||||
\$NO\#2

\$NO\#3
||||||||||||||||||||||| \$NO\#4



||||||||||||||||III \$NO\#8

||||||||||||||||||| \$NO\#A

|||||||||||||||||||||

## |||||||||||||||||||||||||| SNO\#D <br> |||||1||||||||1||1||| SNO\#E <br>  SNO\#F

Output Format
To change the Scan Data Transmission Format, scan one of the eight bar codes corresponding to the desired format.

# $|||||||||||||||||||||||||||||\mid$ <br> *Default output format <br>  <br> Enable Suffix output <br>  <br> SDATA\#2 <br> Enable Prefix output 

Example on how to add normal prefix or suffix on barcode "123456789"

Add " $A$ " and " $B$ " as prefixes and "!" as suffix

1. Scan command barcode of "Add Prefix".

2. Check the prefix hex value from the ASCII Chart. A- "4","1"; B-"4" "2";
3. Scan the 2-digit hex value from the Numeric Bar Codes.

 \$NO\#1

 \$NO\#2
4. Scan the output format to enable prefix output.


Enable Prefix output
5. Scan command barcode of "Add Suffix" to add "!" as suffix.

6. Check the suffix hex value from the ASCII Chart. !- "2" "1"
7. Scan the 2-digit hex value from the Numeric Bar Codes.

## |||||||||||||||||||||||| \$NO\#2

## |||||||||||||||||||||||||| \$NO\#1

8. Scan the output format to enable suffix output.


Enable Suffix output
9. Scan the barcode then you will get AB123456789!

Example on how to add Combination Key suffix for barcode "123456789"

Add "Ctrl+P" on "123456789" as suffix

1. Scan command barcode of "Add Suffix" to add "Ctrl+P" as suffix.

2. Check the suffix hex value from the ASCII Chart. Ctrl+P - "9" "7" "5" "0"
3. Scan the 4 digits hex value from the Numeric Bar Codes.

||||||||||||||||||||||||| \$NO\#7

## ||||||||||||||||||||||||| \$NO\#5


4. Scan the output format to enable suffix output.

5. Scan "Keyboard Ctrl Combination Key".
6. Scan the barcode 123456789. (Test it on Excel)

Table 1. ASCII Character Equivalents

| HEX | ASCII | HEX | ASCII | HEX | ASCII | HEX | ASCII |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| 2 H | Space | 30 H | 0 | 40 H | @ | 50 H | P |
| 21 H | 1 | 31 H | 1 | 41 H | A | 51 H | Q |
| 22 H | " | 32 H | 2 | 42 H | B | 52 H | R |
| 23 H | \# | 33 H | 3 | 43 H | C | 53 H | S |
| 24 H | \$ | 34 H | 4 | 44 H | D | 54 H | T |
| 25 H | \% | 35 H | 5 | 45 H | E | 55 H | U |
| 26 H | \& | 36 H | 6 | 46 H | F | 56 H | V |
| 27 H | , | 37 H | 7 | 47H | G | 57H | W |
| 28 H | 1 | 38 H | 8 | 48 H | H | 58 H | X |
| 29 H | ) | 39 H | 9 | 49 H | I | 59 H | Y |
| 2 AH | * | 3 AH | : | 4AH | J | 5 AH | Z |
| 2 BH | $+$ | 3 BH | ; | 4 BH | K | 5BH | I |
| 2 CH | , | 3 CH | $<$ | 4 CH | L | 5 CH | 1 |
| 2 DH | - | 3 DH | $=$ | 4DH | M | 5DH | ] |
| 2 EH | . | 3EH | $>$ | 4EH | N | 5EH | $\wedge$ |
| 2 FH | 1 | 3FH | ? | 4FH | 0 | 5 FH | - |
| 60 H | - | 70 H | p | 80 H | F1 | 90 H | End |
| 61 H | a | 71H | $q$ | 81 H | F2 | 91 H | Page Down |
| 62 H | b | 72 H | r | 82 H | F3 | 92 H | Right Arrow |
| 63 H | c | 73 H | 5 | 83 H | F4 | 93 H | Left Arrow |
| 64 H | d | 74 H | $t$ | 84 H | F5 | 94 H | Down Arrow |
| 65 H | e | 75 H | $u$ | 85 H | F6 | 95 H | Up Arrow |
| 66 H | $f$ | 76H | $v$ | 86 H | F7 | 96 H | Print Screen |
| 67 H | g | 77H | w | 87\% | F8 | 97H | ${ }^{*} \mathrm{Ctrl}$ |
| 68 H | h | 78H | x | 88 H | F9 | 98 H | *Shirt |
| 69 H | i | 79 H | $y$ | 89 H | F10 | 99 H | *Left Alt |
| 6AH | J | 7AH | $z$ | 8AH | F11 | 9 AH | *Right Alt |
| 6 BH | k | 78H | 1 | 8BH | F12 | 08H | BS |
| 6 CH | 1 | 7 CH | $1$ | 8 CH | Insert | 09 H | HT |
| 6DH | m | 7DH | \} | 8DH | Home | OAH | LF |
| 6EH | $n$ | 7EH | ~ | 8EH | Page Up | ODH | CR |
| 6 FH | - | 7FH | DEL | 8FH | Delete | 1 BH | ESC |


[^0]:    警告：電池若未妥善處理，可能會導致爆炸。
    請勿拆卸電池，或用火銷毁電池。請將電池放置於兒童拿不到的地方。請使用專用充電器充電，並請依照當地政府或法律規定妥善處理廢葉電池。

[^1]:    *Disable EAN-8 Zero Extend

