MINDEO

MD6600 Handheld Image Scanner

User Manual



Version: MD6600_UM_EN_V1.1.3

Notice



Ensure that the optional DC adapter works at +5 VDC, especially for the RS-232 interface cable.

- 1. All software, including firmware, furnished to the user is on a licensed basis.
- 2. The right is reserved to make changes to any software or product to improve reliability, function, or design.
- 3. The material in this manual is subject to change without notice.
- 4. A standard packing includes a scanner, a USB cable and a quick guide. Accessories include a stand, a RS-232 cable, and a 5 VDC adaptor.



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1 Specifications

1-1 Technical specifications

Dimensions	Height × Width × Depth: 90 mm × 62.8 mm × 153 mm				
Weight	132 g, without cable				
Cable	Straight 2.0 m				
Connector Type	RJ-45 phone jack connector				
Case Material	PC+TPU				
Exit Window Material	Tempered glass				
Indicator	Beeper, LED				
Interface Supported	RS-232, USB Keyboard, USB v	RS-232, USB Keyboard, USB virtual COM			
Operating Mode	Hand-held, Auto-detection				
Programming Method	Manual (reading special barcoo	de)			
Firmware Upgrade	Online				
Input Voltage	5 ± 0.25 VDC				
Current	Standby: 160 mA , Scanning: 3	00 mA (Max:480 mA)			
Image Size	1280 × 800 pixels				
Limbt Occurs	Illumination : 5000 K , white LE	D			
Light Source	Aiming: 525 nm peak waveleng	yth, green LED			
Imager Field of View	Horizontal: 41°, vertical: 28°				
Scanning Angle	±70°, ±75°, 360° (skew, pitch, roll)				
Print Contrast	20% minimum reflective difference				
Decoding Capability	1D: UPC-A, UPC-E, UPC-E1, EAN-13, EAN-8, ISBN (Bookland EAN), ISSN, Code 39, Code 39 full ASCII, Code 32, Trioptic Code 39, Interleaved 2 of 5, Industrial 2 of 5 (Discrete 2 of 5), Matrix 2 of 5, Codabar (NW7), Code 128, UCC/EAN 128, ISBT 128, Code 93, Code 11 (USD-8), MSI/Plessey, UK/Plessey, China Post, China Finance, Telepen, GS1 DataBar (formerly RSS) variants 2D: PDF417, QR Code, DataMatrix, Han Xin Code, Aztec Code, MicroQR Code,				
Minimum Resolution	HD: 1D (Code 39): 3mil SR: 1D (Code 128): 4mil				
		High Density Series	Standard Range Series		
	3 mil Code39 (3 chars)	25 mm – 50 mm	1		
	4 mil Code39 (9 chars)	10 mm – 90 mm	30 mm – 90 mm		
	5 mil Code39 (3 chars)	5 mm – 115 mm	20 mm – 120 mm		
Decoding Depth	13 mil UPC (6 chars)	0 mm – 250 mm	0 mm – 280 mm		
Dooding Deput	20 mil Code39 (1 char)	15 mm – 340 mm	15 mm – 430 mm		
	6.7 mil PDF417 (20 chars)	10 mm – 100 mm	15 mm – 120 mm		
	10 mil QR (20 chars)	0 mm – 155 mm	0 mm – 165 mm		
	10 mil DM (20 chars)	0 mm – 160 mm	0 mm – 165 mm		
	20 mil QR (20 chars)	0 mm – 270 mm	0 mm – 340 mm		
Temperature	-10° to 50°C (14° to 122°F), op	erating; -20° to 70°C (-4° to	158°F), storage		
Humidity	5% to 95% (non-condensing)				
Safety	Photobiological Safety: EN624: EMC: EN55032	71			
L	l .				

ESD Protection: EN55024
RF Immunity: IEC61000-4-3, 10 V/m
Immunity: 0~100,000 lux
Sealing: IP52
Drop Resistance: Withstands multiple 2.0 m drops to concrete

1-2 Default setting for each barcode

Ondo timo	Read	Check digit	Check digit	Min. code	Proprietary	AIM
Code type	enable	verification	transmissio	length	code ID	code ID
UPC-A	√	√	√	(12)2	Α]Em
UPC-E	√	√	√	(8)2	D]Em
UPC-E1	-	√	√	(8)2	D]Em
EAN-13	√	√	√	(13)2	Α]Em
EAN-8	√	√	√	(8)2	С]Em
ISBN (Bookland EAN)	√	√	√	(13)2	В]Em
Code 39	√	-	-	1	М]Am
Interleaved 2 of 5	√	-	-	6	I]lm
Industrial 2 of 5	-	-	-	4	Н]lm
Matrix 2 of 5	√	-	-	6	Х]lm
Codabar	√	-	-	4	N]Fm
Code 128	√	√	-	1	K]Cm
UCC/EAN 128	√	√	-	1	K]Cm
ISBT 128	√	√	-	1	K]Cm
Code 93	√	√	-	1	L]Gm
Code 11	-	√	-	4	V	-
MSI/Plessey	-	-	-	4	0]Mm
UK/Plessey	-	√	-	1	U]Mm
China Post	√	-	-	(11)2	Т]lm
China Finance	-	-	-	(10)2	Y	-
Telepen	√	√	-	1	Р]Em
GS1 DataBar	√	-	-	(16) ²	R]em
GS1 DataBar				(4.0)2	Б	1
Truncated ³	$\sqrt{}$	-	-	(16) ²	R]em
GS1 DataBar Limited	√	-	-	(16) ²	R]em
GS1 DataBar Expanded	√	-	-	1	R]em
PDF417	√	-	-	-	р]Lm
MicroPDF417					р]Lm
DataMatrix	√	-	-	-	d]dm
QR code	$\sqrt{}$	-	-	-	q]Qm
MicroQR Code	-	-	-	-	q]Qm
Han Xin Code	-	-	-	-	h]Xm
Aztec Code	-	-	-	-	а]zm

Note: ¹The settings for ISBN/ISSN and EAN-13 must be the same except the code ID.

² Fixed-length barcodes.

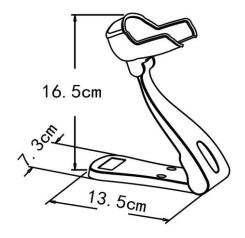
³The settings for GS1 DataBar Truncated and GS1 DataBar must be the same.

2 Get started

2-1 Dimensions







2-2 Parts of the scanner



Figure 2-1

- ① LED
- ② Beeper
- ③ Scan window
- 4 Trigger
- ⑤ Release-hole of the cable
- © Cable interface port

2-3 Cable connector pin-outs descriptions

The scanner provides a RJ-45 cable connector.

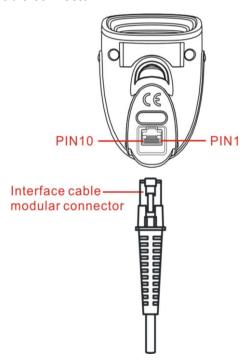


Figure 2-2 Cable connector interface pin-outs

The pin-outs descriptions in Table 2-1 apply to the cable connector on the scanner and are for reference only.

Table 2-1 Cable connector pin-outs descriptions

Pin	RS232	USB
1	Power (+5V)	Power (+5V)
2	Reserved	Reserved
3	Ground	Ground
4	+3.3V (for interface auto selection purpose)	Ground (for interface auto selection purpose)
5	TxD	Reserved
6	RxD	Reserved
7	Reserved	Reserved
8	Reserved	Reserved
9	CTS	D-
10	RTS	D+

Note: Voltage level of all RS232 Pin-outs (RxD, TxD, CTS and RTS) is 0V for logic low and 3.3V for logic high.

2-4 Installation and uninstallation of cable

Note: If any of the below operation is incorrect, turn off the power immediately and check the scanner for any improper connections. Go through all steps again.

2-4-1 Installation - USB

The scanner attaches directly to a USB host, and is powered by it. No additional power supply is required.

- 1. Refer to Figure 2-3, connect the USB interface cable to the bottom of the scanner.
- 2. Plug the series A connector in the USB host, or an available port of the terminal.
- 3. Windows will automatically detect the USB device.

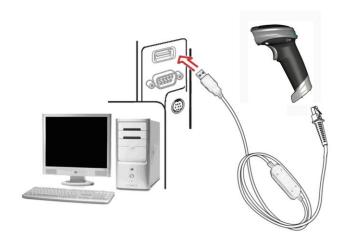


Figure 2-3

2-4-2 Installation - RS-232

- 1. Connect the RS-232 interface cable to the bottom of the scanner.
- 2. Connect the other end of the interface cable to the serial port on the host. Tighten the two screws to secure the connector to the port.
- 3. If the host does not have power supply (on PIN 9), connect the external power supply (DC adapter) to the RS-232 cable.

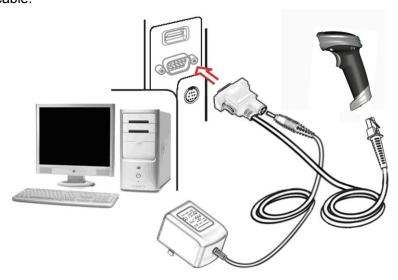


Figure 2-4

2-4-3 Uninstallation of cable

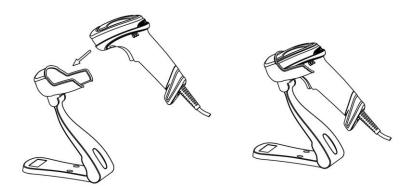


Figure 2-5

Remove the interface cable:

- 1. Find the release-hole.
- 2. Insert a thin wire into the hole and pull out the cable gently.

2-5 Assembling the stand



Note: The stand is an optional accessory.

2-6 Auto-detection

Note: The stand is an optional accessory.

- 1. To scan a bar code, present the bar code and ensure that the scan angle from the scan window can cover the symbol.
- 2. Upon successful decode, the scanner beeps and the LED lights.
- 3. When the scanner stops scanning, the present bar code must be removed to active next scanning.



Figure 2-6

The scanner offers 2 methods to enable/ disable Auto-detection quickly.

3 Programming

3-1 Example 1: Single-parameter setting by scanning 1D barcodes

Important notes:

- 1. During the process of programming, LED is lighting to indicate the programming correctness. LED will go off if any incorrect programming operation performed.
- 2. After each successful programming, LED will go off and the scanner will beep twice.
- 3. Throughout the programming barcode menus, the factory default settings are indicated with asterisks (*).

Two programming modes have been provided as bellows:

- Single-scan setting
 - Scan the appropriate Single-scan setting (e.g. %0101D00%) according to the user's demand.

Example: To set Flow control to be XON/XOFF.

Steps: Scan the following barcode.



- Multiple-scan setting
 - > Step 1. Scan the Option barcode barcode (e.g. %0101M%) according to the user's demand.
 - Step 2. To the right of the option barcode, the necessary alphanumeric inputs are listed. Scan two alphanumeric entries from 0 to 9 or A to F, refer to 10 Configuration alphanumeric entry barcode.
 - Step 3. Repeat Step 2, if more user parameters input are required.
 - > Step 4. Scan the **%END%** barcode, listed on the lower left hand corner of each parameter setting part.

Example: To set Flow control to be XON/XOFF.

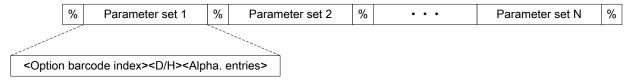
Steps: Referring to 3-6 RS-232 interface, scan the following barcodes in order.



3-2 Example 2: Multiple-parameter setting by scanning a QR code barcode

User can customize a QR code to set multiple parameters. The scanner can set multiple parameters by scanning this single QR code barcode.

1. The data format of the QR code barcode is as following.



Note that:

- > < Option barcode index> means the corresponding 4 digits of Option barcode.
- > <D/H> means "D" or "H" character. D means that the type of alphanumeric entry is decimal; and H means that the type of alphanumeric entry is hexadecimal.
- > <Alpha. entries> is a character string with various length of 2, 4, or other values.

Example: Set 0401->03 (decimal); 8002->0D0A (hexadecimal); 8202->01 (decimal). The customized QR code barcode contents and symbol are as following.

%0401D03%8002H0D0A%8202D01%



2. Notes of making QR code barcode

The model is chosen as M2. Other requirements, e.g. ECC level, Start mode, etc, are not specified.

Other notes

- > The contents of a QR code barcode can include several same <Option barcode index> associated with same or different <Alpha. entries>. In the case of with different <Alpha. entries>, the latest <Alpha. entries> is the valid one.
- If any one of the parameter settings is invalid, the total setting is failed. The invalid setting can be caused by one of the following problems: invalid <Option barcode index>, invalid type of <D/H>, invalid type, length or value range of <Alpha. entries>, etc.

3-3 Operate the scanner by receiving command via UART

Note:

- 1- The information in this chapter is provided for the scanner with RS232 cable or USB cable.
- 2- If the scanner is with USB cable, the setting of USB device type must be set as "USB virtual COM". Please refer to 3-6 USB interface.
- 3- Please read 3-7 Scan mode & some global settings about the setting of Scan mode in details.

UART parameter should be set as below:

- (1) Baud rate: 9600 bps;
- (2) Data bits: 8 bits;
- (3) Stop bit: 1 bit;
- (4) Parity check bit: None;
- (5) Flow control: None.

Guide of control command: all commands are sent by UART

1) Start command: "0x16 0x54 0x0D"

When the scanner received the above command, it will start barcode scanning following the setting of Scan mode.

2) Stop command: "0x16 0x55 0x0D"

If the Scan mode is set as "Alternate continue" or "Continue", and the scanner received the above command, it will stop barcode scanning and act as in an idle mode.

3-4 Interface selection

This scanner supports interfaces such as RS-232 serial wedge and USB interface. In most of the cases, simply selecting an appropriate cable provided by the manufacturer will work for a specific interface.

Interface selection:

Auto detection- By setting this function, the scanner will automatically detect the RS-232 interface or USB interface for user.

Multiple-scan setting			Cinale con cetting
Option barcode	Option	Alpha. entry	Single-scan setting
Interface selection	Auto detection (RS-232/USB)	00*	

3-5 RS-232 interface

Host type:

Standard- The scanner is connected to a standard RS-232 interface.

OPOS/JPOS- The scanner is connected to a POS terminal which may be necessary to install the OPOS/JPOS driver to be compatible with the manufacturer's scanner. The OPOS/JPOS driver is provided by the scanner manufacturer; please contact the scanner manufacturer for the instruction.

Flow control:

None-The communication only uses TxD and RxD signals without any hardware or software handshaking protocol.

RTS/CTS- If the scanner wants to send the barcode data to host computer, it will issue the RTS signal first, wait for the CTS signal from the host computer, and then perform the normal data communication. If there is no replied CTS signal from the host computer after the timeout duration, the scanner will issue an error indication. By setting (Host idle: Low RTS) or (Host idle: High RTS), the scanner can be set to match the Serial Host RTS line.

XON/XOFF- An XOFF character turns the scanner transmission off until the scanner receives an XON character.

ACK/NAK- After transmitting data, the scanner expects either an ACK (acknowledge) or NAK (not acknowledge) response from the host. When a NAK is received, the scanner transmits the same data again and waits for either an ACK or NAK. After three unsuccessful attempts to send data when NAKs are received, the scanner issues an error indication and discards the data.

Inter-character delay: This delay is inserted after each data character transmitted.

Response delay: This delay is used for serial communication of the scanner when it waits for a handshaking acknowledgment from the host.

Multiple-scan setting			Ola ula a a a a a a a a a a a a a a a a a
Option barcode	Option	Alpha. entry	Single-scan setting
Host type	Standard	00*	
	OPOS/JPOS	01	
	None	00*	
Flow control	RTS/CTS (Host idle: Low RTS)	01	
	RTS/CTS (Host idle: High RTS)	02	
,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,	XON/XOFF	03	
	ACK/NAK	04	
	0 ms	00*	
	5 ms	01	
Inter-character delay	10 ms	02	
	20 ms	03	
	40 ms	04	
	80 ms	05	
Response delay	00-99 (100 ms)	00-99	
	00 00 (100 ms)	00*	
	300	00	
	600	01	
Baud rate	1200	02	
	2400	03	
	4800	04	
	9600	05*	

Multiple-scan setting			Single occup actting
Option barcode	Option	Alpha. entry	Single-scan setting
	19200	06	
	38400	07	
	57600	08	
	115200	09	
	None	00*	
Parity bit	Odd	01	
760300W 76	Even	02	
Data bit	8 bits	00*	
	7 bits	01	
Stop bit	One bit	00*	
	Two bits	01	

3-6 USB interface

USB device type:

HID keyboard- By setting, the scanner is used as a USB HID keyboard emulation device.

HID keyboard for Apple Mac- By setting, the scanner is compatible with Apple Mac.

USB virtual COM– By setting, the scanner emulates a regular RS232-based COM port. If a Microsoft Windows PC is connected to the scanner, a driver is required to install on the connected PC. The driver will use the next available COM Port number. The driver and the installation guide can be found in the associated CD and on the manufacturer's website. A Windows-based software COM_Text is recommended to display the barcode data in text format. COM_Text emulates some kind of serial-key typing.

Note: When changing USB Device Type, the scanner automatically restarts.

Simple COM Port Emulation- Please contact the manufacturer for the instruction.

HID for OPOS/JPOS- The scanner is connected to a POS terminal which may be necessary to install the OPOS/JPOS driver to be compatible with the manufacturer's scanner. The OPOS/JPOS driver is provided by the scanner manufacturer; please contact the scanner manufacturer for the instruction.

Keyboard layout: The scanner supports different national keyboard layouts. Commonly an appropriate encoding system must be selected. Please refer to Character encoding system of *3-7 Scan mode & some global settings* for details.

Inter-character delay: This delay is inserted after each data character transmitted. By selecting, the user can change the output speed of the scanner to match the speed of the host USB communication port.

Numeric key:

Alphabetic key- The scanner will output code result as alphabetic key.

Numeric key- The scanner will output code result as pressing numeric keypad ('0', '1', '2', '3', '4', '5', '6', '7', '8', '9', '.', '+', '-', '/', '*' only).

Alt + keypad- The scanner will output code result as pressing Alt+ numeric key (on keypad). Note that the Num Lock control key must be ON. This setting can be specially adapted for use with different national keyboard layout.

USB function code: It can support the output and prohibition of non-printable-characters, as well as the output and prohibition of function codes corresponding to non-printable-characters.

	Multiple-scan setting		
Option barcode	Option	Alpha. entry	Single-scan setting
	HID keyboard	00*	
	HID keyboard for Apple Mac	01	
USB device type	USB virtual COM	02	
%0901M%	Simple COM Port Emulation	03	%0901D03%
	HID for OPOS/JPOS	04	
	USA	00*	
	Turkish F	01	
	Turkish Q	02	
	French	03	
	Italian	04	
	Spanish	05	
	Slovak	06	
Keyboard layout	Denmark	07	
	Japanese	08	
	German	09	
	Belgian	10	%0902D10%
	Russian	11	%0902D11%
	Czech	12	%0902D12%
	Taibun	13	
	Hungary	14	
	Swiss German	15	

Multiple-scan setting				
Option barcode	Option	Alpha. entry	Single-scan setting	
	Portugal	16		
Character encoding system %0413M%	Refer to 3-7 Scan mode & some global setting.	s.		
	0 ms	00*		
	5 ms	01		
Inter-character delay	10 ms	02	%0903D02%	
	20 ms	03	%0903D03%	
	40 ms	04	%0903D04%	
	60 ms	05	%0903D05%	
	Alphabetic key	00*		
	Numeric keypad	01		
Numeric key	Alt + keypad	02		
	GBK	03		
	BIGS	04		
	TAIBUN	05		
	Output non-printing characters	00		
USB function code	Output function codes corresponding to non-printable-characters.	01		
%0905M%	Prohibition output of non-printable-character	03		



3-7 Scan mode & some global settings

Scan mode:

Good-read off-The trigger button must be pressed once to activate scanning. The light source of scanner stops scanning when there is a successful reading or no code is decoded after the Stand-by duration elapsed.

Momentary-The trigger button acts as a switch. Press button to activate scanning and release button to stop scanning. The light source of scanner stops scanning when there is a successful reading or no code is decoded after the Stand-by duration elapsed.

Good-read on-The trigger button must be pressed once to activate scanning. The light source of scanner stops scanning when no code is successful decoded after the Stand-by duration elapsed.

Auto-detection- Good-read on – By setting Enable, the scanner will start operating if any nearby object has been detected. The scanner stops scanning when no code is successful decoded after the Stand-by duration elapsed. Once the scanner stops scanning, the present object must be removed to enable Auto-detection.

Auto-detection- Good-read off – By setting Enable, the scanner will start operating if any nearby object has been detected. The scanner will stop scanning when there is a successful reading or no code is decoded after the Stand-by duration elapsed. Once the scanner stops scanning, the present object must be removed to enable Auto-detection.

Barcode detection: In image auto-induction mode, barcode detection means that the scanner detects an object similar to a barcode to trigger decoding, such as text, graphics, barcodes, and so on.

Barcode detection delay: The barcode detection delay means that the detection function is enabled when no object is detected within the set delay.

Same barcode delay time for 1D symbols: This feature is activated only when the Scan mode is in alternate or continuous mode. Once a 1D barcode has been scanned and output successfully, the optics module's lights must be off or moved away from the barcode beyond delay time to active a next scanning on the same barcode.

Same barcode delay time for 2D symbols: This feature is activated only when the Scan mode is in alternate or continuous mode. Once a 2D barcode has been scanned and output successfully, the optics module's lights must be off or moved away from the barcode beyond delay time to active a next scanning on the same barcode.

Double confirm: If it is enabled, the scanner will require a several times of same-decoded-data to confirm a valid reading.

Global Max./Min. code length for 1D symbol: These two lengths are defined as the valid range of decoded 1D barcode data length. Make sure that the minimum length setting is no greater than the maximum length setting, or otherwise the labels of the symbol will not be readable. In particular, the same value can be set for both minimum and maximum reading length to force the fixed length barcode decoded.

Notes:

1. Please set the max./min. length for individual barcode in later sections, if special demand is requested.

- 2. The number of check digits is included in max./min. code length.
- 3. These two settings have no effect on the symbols with fixed-length, e.g. UPC-A, UPC-E, EAN-13, EAN-8 and China Post.

Global G1-G6 string selection: The scanner offer one or two string group for ALL symbols. By setting one or two digits to indicate which string group you want to apply. You may refer to 3-41 G1-G6 & C1-C3 & FN1 substitution string setting and 3-41 G1-G4 string position & Code ID position.

Example: Group 1 \rightarrow set 01 or 10. Group 2 and 4 \rightarrow set 24 or 42.

All valid settings include 00, 01, 02, 03, 04, 05, 06, 10, 11, 12, 13, 14, 15, 16, 20, 21, 22, 23, 24, 25, 26, 30, 31, 32, 33, 34, 35, 36, 40, 41, 42, 43, 44, 45, 46, 50, 51, 52, 53, 54, 55, 56, 60, 61, 62, 63, 64, 65 and 66.

Element amendment: If it is enabled, the scanner can read the barcode comprised with bars and spaces in different scale.

Character output restraint:

Printable character only- If this option is selected, the scanner will output the printable characters only, i.e. in ASCII from 20H to 7EH.

Alphanumeric character only. If this option is selected, the scanner will output the alphanumeric characters only, i.e. "A"-"Z", "a"-"z", "0"-"9".

Decoder optimization: If it is enabled, the scanner will optimize the decoder with error correction. This function is not effective for all types of barcodes.

Data output delay in continue-scan mode: If it is enabled, in the continue-scan mode, the scanner can store the data while continue-scanning. The scanner will output the data after the predefined delay elapsed. The maximum storage of data is 1000 characters. If this parameter is set to be "00", the scanner will not store data. And if the parameter is set to be "FF", the scanner will output data after stopping scanning.

Character encoding system: A character encoding system consists of a code that pairs each character from a given repertoire. Common examples include Morse code, the Baudot code, the ASCII and Unicode. If the data received does not display with the proper characters, it may be because the barcode being scanned was created using a character encoding system that is different from the one the host program is expecting. Try alternate options to find the proper one.

Complete data output before next decode attempt: This setting is active only when USB device type is set as "HID keyboard" or "HID keyboard for Apple Mac", refer to 3-6 USB interface. If it is enabled, the scanner will not start next decode attempt until previous data output is completed.

Sleep mode: If it is enabled, the scanner will go to sleep when no code is successful decoded after the Sleep mode delay elapsed.

Sleep mode delay: When no code is successful decoded beyond this time, the scanner will go to sleep.

Multiple-scan setting			
Option barcode	Option	Alpha. entry	Single-scan setting
Scan mode	Good-read off	00	
	Momentary	01*	
	Good-read on	04	
%0401M%	Auto-detection- Good-read on	06	
	Auto-detection- Good-read off	07	
Barcode detection	Disable*	00*	
	Enable	01	
	Always detection	00	
	5 seconds	01	
Barcode detection delay	10 seconds	02	
	30 seconds	03	
	60 seconds	04	
	Never detection	05*	
	4 seconds	00*	
	8 seconds	01	
	16 seconds	02	
Okas III. II. II	24 seconds	03	
Standby duration	30 seconds	04	
	1 minute	05	
	1.5 minutes	06	
	2 minutes	07	
	5 minutes	08	

Multiple-scan setting			Single open of #!
Option barcode	Option	Alpha. entry	Single-scan setting
	7 minutes	09	
	10 minutes	10	
	15 minutes	11	
	20 minutes	12	
	30 minutes	13	
	45 minutes	14	
	1 hour	15	
Same barcode delay time for		00-FF ₁₆	
1D symbol	00-FF ₁₆ (50 ms)	00	
%0403M%		08*	
Same barcode delay time for		00-FF ₁₆	
2D symbol	00-FF ₁₆ (50 ms)	00	
%0415 M %		08*	
Double confirm	00-09 (00: no)	00-09	%0402D11% %0402D12% %0402D13% %0402D14% %0402D15% %0402D15% %0403H00% %0403H00% %0415H00%
	00-03 (00. 110)	00*	
Global max. code length for 1D symbol	04-99	04-99	
	3.00	99*	
Global min. code length for 1D symbol	01-99	01-99	
	01-99	04*	%0406D04% *
Global G1-G6 string selection	00-66	00-66	
	00-00	00*	%0407D00% *
Element amendment	Disable	00	

Multiple-scan setting			Single open as#ing
Option barcode	Option	Alpha. entry	Single-scan setting
	Enable	01*	
Character output restraint	None	00*	
	Printable character only	01	
700405W170	Alphanumeric character only	02	
Decoder optimization	Disable	00	
	Enable	01*	
Data output delay in continue-scan mode	00-99 (100 ms)	00-FF ₁₆	
	FF (Never)	00*	
	ASCII	00*	
	UTF-8	01	
	Windows-1251	02	
Character encoding system	Simplified Chinese	03	
	Traditional Chinese	04	
	Windows-1250	05	
	KOI8R	06	######################################
	Japanese	07	
Complete data output before next decode attempt	Disable	00*	######################################
	Enable	01	
Sleep mode	Disable	00	
 	Enable	01*	
Sleep mode delay	1 second	00	
	5 seconds	01	

Multiple-scan setting			Oleral a sacra sattlera
Option barcode	Option	Alpha. entry	Single-scan setting
	10 seconds	02	
	30 seconds	03	
	60 seconds (1 minute)	04	
	300 seconds (5 minutes)	05*	
	600 seconds (10 minutes)	06	
	1800 seconds (30 minutes)	07	
	3600 seconds (1 hour)	08	
	10800 seconds (3 hours)	09	



3-8 Indication

Power on alert: After power-on the scanner will generate an alert signal to indicate a successful self-test.

LED indication: After each successful reading, the LED above the scanner will light up to indicate a good barcode reading.

Beeper indication: After each successful reading, the scanner will beep to indicate a good barcode reading, and its beep tone duration is adjustable.

Beep tone duration: This parameter can be adjusted for a good reading upon favorite usage.

Volume of beeper: This parameter can be adjusted for different level of the volume of the beeper.

Multiple-scan setting			Oingle compatting
Option barcode	Option	Alpha. entry	Single-scan setting
Power on alert 	Disable	00	
	Enable	01*	
LED indication	Disable	00	
	Enable	01*	
Beeper indication	Disable	00	
	Enable	01*	%0503D01% *
Beep tone duration	01-09 (10 ms)	01-09	
	01-09 (101113)	05*	
Volume of beeper	Low	00	
	Middle	01	
	High	02*	∭∭∭∭∭∭∭∭∭∭ %0505D02% ∗
######################################			

3-9 Decode illumination and decode aiming pattern

Decode illumination mode: Enable illumination causes the scanner to turn on the illumination to aid decoding. Disable illumination to turn off illumination for the scanner during decoding. Better quality images could be obtained with illumination support. The effectiveness of the illumination decreases as the distance to the target increases.

Decode aiming pattern: When this option is enabled, the scanner will project the aiming pattern during the code capture.

Level of decode illumination: This parameter can be adjusted for different level of decode illumination. **Illumination mode of Auto-detection:**

Always off- Illumination LED will be always turned off.

Enable illumination in low light conditions- In low light conditions, the scanner will turn on illumination LED automatically to ensure normal work. While in other light conditions, the illumination LED will be turned off automatically.

Always on- Illumination LED will be always turned on.

Note: This function is only valid in Auto-detection mode.

Multiple-scan setting			Single-scan setting
Option barcode	Option	Alpha. Entry	Single-scan setting
Decode illumination mode	Always Off	00	
	Always On	01	
	Flashing	02	
	Always On when reading	03*	
	Always Off	00	
Decode aiming pattern	Always On	01	
	On before reading	02	
	On when reading	03*	
	Disable decode illumination	00	
Level of decode illumination	Low	01	
	Middle	02*	
	High	03	
Illumination mode of Auto-detection	Always off	00	
	Enable illumination in low light conditions	01*	
	Always on	02	
			· · · · · · · · · · · · · · · · · · ·

3-10 Other settings

1D symbols read: A global setting of 1D symbols readability.

2D symbols read: A global setting of 2D symbols readability.

Vertical centering read: By setting Enable, the scanner reads only the barcode centered by the aimer in vertical direction. However, the scanner will read either one of two barcodes which are positioned horizontally. See example below.

Mobile screen read: By setting enable, the scanner can read barcodes on a mobile screen better. However, this will slow the reading speed of normal barcodes a little bit.

Multiple-scan setting			O'a da a a a a a a differen
Option barcode	Option	Alpha. entry	Single-scan setting
1D symbols read ####################################	Follow respective 1D symbol setting	00*	
	All 1D OFF	01	
	Follow respective 2D symbol setting	00*	
	All 2D OFF	01	
	All 2D ON	02	
	Only PDF417 ON	03	
2D symbols read	Only QR code ON	04	
76 TOO TIWI 76	Only Data Matrix ON	05	######################################
	Only MaxiCode ON	06	
	Only Aztec Code ON	07	
	Only Han Xin Code ON	08	
Vertical centering read	Disable	00*	
	Enable	01	
Mobile screen read	Disable	00	
	Enable	01*	

Note 1: The instruction of calibrating the aimer in vertical centering direction

- 1. Scan the barcode on this page. The scanner will give three musical short beeps to indicate entering calibration mode.
- 2. Press the trigger of the scanner while maintaining the distance of about 15cm between the scan window of the scanner and this paper. After a few seconds, the scanner will give three short beeps to indicate a successful calibration, or a long beep to indicate a failed calibration.
- 3. If the calibration is failed in step 2, please repeat the steps 1-2. If it is not succeed after a multiple times of calibration, please contact your local dealer or the manufacturer for further instruction.



Note 2 : Scan barcode or send command to enter upgrade mode

Scan barcode to enter upgrade mode	
Send command to enter upgrade mode	Send command 0x16 0x4D 0x0D 0x25 0x4E 0x4D 0x55 0x47 0x44 0x2E by USB virtual COM or RS232 COM.

3-11 UPC-A

Read:

Format

System character Data digits (10 digits) Check digit

Check digit verification: The check digit is optional.

Check digit trans.: By setting Enable, check digit will be transmitted.

Code ID setting: Code ID is a one-or-two-character string used to represent the symbol upon a succeeding reading. If you want application to transmit Code ID, you must set Code ID transmission to be enabled. Refer to *3-41 String transmission*.

Insertion group selection: Refer to Global insertion group selection of *3-7 Scan mode & some global settings*.

Supplement digits: The Supplement digits barcode is the supplemental 2 or 5 characters.

Format

System character Data digits (10 digits) Check digit Supplement digits 2 or 5

Truncation/Expansion:

Truncate leading zeros- The leading "0" digits of UPC-A data characters can be truncated when the feature is enabled.

Expand to EAN-13- It extends to 13-digits with a "0" leading digit when the feature is enabled.

Truncate system character- The system character of UPC-A data can be truncated when the feature is enabled.

Add country code- The country code ("0" for USA) can be added when the feature is enabled.

Multiple-scan setting			0. 1 "
Option barcode	Option	Alpha. entry	Single-scan setting
Read	Disable	00	
	Enable	01*	
Check digit verification	Disable	00	
	Enable	01*	
Check digit trans.	Disable	00	
	Enable	01*	
Code ID setting	00-FF ₁₆ (ASCII)	00-FF ₁₆	
	00-FF 16 (A3CII)	<a>*	
Insert group selection	20.44	00-44	
	00-44	00*	
	None	00*	
Supplement digits	2 digits	01	
	5 digits	02	
	2 or 5 digits	03	
	None	00*	
	Truncate leading zeros	01	
Truncation/Expansion	Expand to EAN-13	02	
%1107 M %	Truncate system character	03	
	Add country code	04	%1107D04%



3-12 UPC-E

Read:

Format

System character "0" Data digits (6 digits) Check digit

Check digit verification: The check digit is optional and made as the sum of the numerical value of the data digits.

Check digit trans.: By setting Enable, check digit will be transmitted.

Code ID setting: Refer to Code ID setting of 3-11 UPC-A.

Insertion group selection: Refer to Insertion group selection of *3-11 UPC-A*.

Supplement digits:

Format

System character "0" Data digits (6 digits) Check digit Supplement digits 2 or 5

Truncation/Expansion:

Truncate leading zeros- Refer to Truncation/Expansion of 3-11 UPC-A.

Expand to EAN-13- It extends to 13-digits with "0" digits when the feature is set to be enabled.

Example: Barcode "0123654",

Output: "0012360000057".

Expand to UPC-A- It extends to 12-digits when the feature is set to be enabled.

Truncate system character- The system character "0" of UPC-E data can be truncated when the feature is enabled.

Multiple-scan setting			
Option barcode	Option	Alpha. entry	Single-scan setting
Read	Disable	00	
	Enable	01*	
Check digit verification	Disable	00	
	Enable	01*	
Check digit trans.	Disable	00	
	Enable	01*	
Code ID setting	00-FF ₁₆ (ASCII)	00-FF ₁₆	
	00-FF 16 (ASOII)	<d>*</d>	
Insert group selection	00-44	00-44	
	00-44	00*	
	None	00*	
Supplement digits	2 digits	01	
	5 digits	02	
	2 or 5 digits	03	
	None	00*	
T	Truncate leading zeros	01	
Truncation/Expansion 	Expand to EAN-13	02	
/0 1207 WI /0	Expand to UPC-A	03	
	Truncate system character	04	



3-13 UPC-E1

Read:

Format

System character "1" Data digits (5 digits) Check digit

Check digit verification: The check digit is optional and made as the sum of the numerical value of the data digits.

Check digit trans.: By setting Enable, check digit will be transmitted.

Code ID setting: Refer to Code ID setting of 3-11 UPC-A.

Insertion group selection: Refer to Insertion group selection of 3-11 UPC-A.

Supplement digits:

Format

System character "1" Data digits (5 digits) Check digit Supplement digits 2 or 5

Truncation/Expansion:

Expand to EAN-13- It extends to 13-digits with "0" digits when the feature is set to be enabled.

Expand to UPC-A- It extends to 12-digits when the feature is set to be enabled.

Truncate system character- The system character "1" of UPC-E1 data can be truncated when the feature is enabled.

Multiple-scan setting		Oir als seen setting	
Option barcode	Option	Alpha. entry	Single-scan setting
Read	Disable	00*	
	Enable	01	
Check digit verification	Disable	00	
	Enable	01*	
Check digit trans.	Disable	00	
	Enable	01*	
Code ID setting	00 FF (ASCII)	00-FF ₁₆	
	00-FF ₁₆ (ASCII)	<d>*</d>	
Insert group selection	20.44	00-44	
	00-44	00*	
	None	00*	
Supplement digits	2 digits	01	
	5 digits	02	
	2 or 5 digits	03	
	None	00*	 %3407D00% *
Truncation/Expansion	Expand to EAN-13	02	
	Expand to UPC-A	03	
	Truncate system character	04	

3-14 EAN-13 (ISBN/ISSN)

Read:

Format

Data digits (12 digits) Check digit

Check digit verification: The check digit is optional and made as the sum of the numerical value of the data digits.

Check digit transmission: By setting Enable, check digit will be transmitted.

EAN-13 code ID setting: Refer to Code ID setting of 3-11 UPC-A.

Insertion group selection: Refer to Insertion group selection of 3-11 UPC-A.

Supplement digits:

Format

Data digits (12 digits) Check digit Supplement digits 2 or 5

ISBN/ISSN conversion: The ISBN (International Standard Book Number, or Bookland EAN) and ISSN (International Standard Serial Number) are two kinds of barcode for books and magazines. The ISBN is 10 digits with leading "978" and the ISSN is 8 digits with leading "977" of the EAN-13 symbol.

Example:

Barcode "9780194315104", Output: "019431510X". Barcode "9771005180004", Output: "10051805".

ISBN/ISSN code ID setting: Refer to Code ID setting of 3-11 UPC-A.

Option barcode Option Alpha. entry Single-scan seturg Read Disable 00 ",130100%" Enable 01* ",130200%" Check digit verification Disable 00 ",130200%" Enable 01* ",130200%" Check digit transmission Disable 00 ",1302001%" Scanding transmission Disable 00 ",1302000%" Enable 01* ",1303000%" ",1303000%" Ean-13 code ID setting 00-FF16 00-FF16 00-FF16 Insert group selection (ASCII) <a>* ",1304H41%" ",1304H41%" White states are group selection 00-44 00* ",1306000%" ",1306000%" Supplement digits 2 digits 01 ",1306000%" ",130600	Multiple-scan setting			0. 1
### ##################################	Option barcode	Option	Alpha. entry	Single-scan setting
### ##################################		Disable	00	
### ##################################		Enable	01*	
### ##################################		Disable	00	
### ##################################		Enable	01*	
### ##################################		Disable	00	
Samily S		Enable	01*	
Insert group selection	EAN-13 code ID setting	00-FF ₁₆	00-FF ₁₆	
		(ASCII)	<a>*	
%1305M%	Insert group selection	00.44	00-44	
Supplement digits		00-44	00*	
Supplement digits		None	00*	
%1306M% 5 digits 02 %1306D02% 2 or 5 digits 03 %1306D03% ISBN/ISSN conversion Disable 00* %1307D00% * Enable 01 %1307D01% ISBN/ISSN code ID setting 00-FF16 (ASCII)		2 digits	01	
ISBN/ISSN conversion		5 digits	02	
SBN/ISSN conversion		2 or 5 digits	03	
Ward		Disable	00*	%1307D00% *
00-FF ₁₆ (ASCII)		Enable	01	
%1309M% (************************************		00-FF ₁₆	00-FF ₁₆	
		(ASCII)	*	



3-15 EAN-8

Read:

Format

Data digits (7 digits) Check digit

Check digit verification: The check digit is optional and made as the sum of the numerical value of the data digits.

Check digit trans.: By setting Enable, check digit will be transmitted.

Code ID setting: Refer to Code ID setting of 3-11 UPC-A.

Insertion group selection: Refer to Insertion group selection of 3-11 UPC-A.

Supplement digits:

Format

Data digits (7 digits) Check digit Supplement Digits 2 or 5

Truncation/Expansion: Refer to Truncation/Expansion of *3-11 UPC-A*.

Multiple-scan setting		01 - 1	
Option barcode	Option	Alpha. entry	Single-scan setting
Read	Disable	00	
	Enable	01*	
Check digit verification	Disable	00	
	Enable	01*	
Check digit trans.	Disable	00	
	Enable	01*	
Code ID setting	00-FF ₁₆ (ASCII)	00-FF ₁₆	
	00-FF16 (ASCII)	<c>*</c>	
Insert group selection	00-44	00-44	
	00-44	00*	
	None	00*	
Supplement digits	2 digits	01	
	5 digits	02	
	2 or 5 digits	03	
	None	00*	
Truncation/Expansion	Truncate leading zero	01	
% 14U / IVI%	Expand to EAN-13	02	
		•	

3-16 Code 39 (Code 32, Trioptic Code 39)

Read:

Format

Start character (*) Data digits (variable) Check digit (optional) End character (

Check digit verification: The check digit is optional and made as the sum module 43 of the numerical value of the data digits.

Check digit transmission: By setting Enable, check digit will be transmitted.

Max./Min. code length: Each symbol has own max./min. code length. If both setting of max./min. code length are "00"s, the setting of global max./min. code length is effective. The length is defined as to the actual barcode data length to be sent. Label with length exceeds these limits will be rejected. Make sure that the minimum length setting is no greater than the maximum length setting, or otherwise all the labels of the symbol will not be readable. In particular, you can see the same value for both minimum and maximum reading length to force the fixed length barcode decoded.

Code ID setting: Refer to Code ID setting of 3-11 UPC-A.

Insertion group selection: Refer to Insertion group selection of 3-11 UPC-A.

Start/End transmission: The start and end characters of Code 39 are "*"s. You can transmit all data digits including two "*"s.

"*" as data character: By setting Enable, "*" can be recognized as data character.

Convert Code 39 to Code 32: Code 32 is a variant of Code 39 used by the Italian pharmaceutical industry. Note that Code 39 must be enabled in order for this parameter to function.

Format of Code 32

"A" (optional) Data digits (8 digits) Check digit

Code 32 Prefix "A" transmission: By setting Enable, the prefix character "A" can be added to all Code 32 barcodes.

Trioptic Code 39 read: Trioptic Code 39 is a variant of Code 39 used in the marking of magnetic tapes and computer cartridges. Trioptic Code 39 symbols always contain six characters.

Format

Start character (\$) Dat	a digits (6 digits)	End character (\$)
--------------------------	---------------------	--------------------

Trioptic Code 39 Start/End transmission: The start and end characters of Trioptic Code 39 are "\$"s. You can transmit all data digits including two "\$"s.

Multiple-scan setting			2'
Option barcode	Option	Alpha. entry	Single-scan setting
Read	Disable	00	
	Enable	01*	
Check digit verification	Disable	00*	
	Enable	01	
Check digit transmission	Disable	00*	
	Enable	01	
Max. code length	00-99	00-99	
	00-99	99*	
Min. code length	00-99	00-99	
	00-99	01*	
Code ID setting	00-FF ₁₆	00-FF ₁₆	
	(ASCII)	<m>*</m>	
Insert group selection	00-44	00-44	
	00-44	00*	
Format	Standard	00*	
	Full ASCII	01	
Start/End transmission	Disable	00*	
	Enable	01	
"*" as data character	Disable	00*	
	Enable	01	
Convert Code 39 to Code 32	Disable	00*	

Multiple-scan setting			Single coop setting
Option barcode	Option	Alpha. entry	Single-scan setting
	Enable	01	
Code 32 Prefix "A" transmission	Disable	00*	
	Enable	01	
Trioptic Code 39 read	Disable	00*	
	Enable	01	
Trioptic Code 39 Start/End transmission	Disable	00*	
	Enable	01	



3-17 Interleaved 2 of 5

Read:

Format

Data digits (Variable) Check digit (optional)

Check digit verification: The check digit is made as the sum module 10 of the numerical values of all data digits. There are two optional check digit algorithms: the specified Uniform Symbol Specification (USS) and the Optical Product Code Council (OPCC).

Check digit transmission: By setting Enable, check digit will be transmitted.

Max./Min. code length: Refer to Max./Min. code length of *3-16 Code 39*.

Code ID setting: Refer to Code ID setting of 3-11 UPC-A.

Multiple-scan setting		Olaska saan sattina	
Option barcode	Option	Alpha. entry	Single-scan setting
Read	Disable	00	
	Enable	01*	
	Disable	00*	
Check digit verification	USS	01	
70 I OUZIVI 70	OPCC	02	
Check digit transmission	Disable	00*	
	Enable	01	
Max. code length	00-99	00-99	
	00-99	99*	
Min. code length	00-99	00-99	
	00-99	06*	
Code ID setting	00-FF ₁₆	00-FF ₁₆	
	(ASCII)	< >*	
Insert group selection	00-44	00-44	
	00-44	00*	



3-18 Industrial 2 of 5 (Discrete 2 of 5)

Read:

Format

Data digits (variable)

Max./Min. code length: Refer to Max./Min. code length of 3-16 Code 39.

Code ID setting: Refer to Code ID setting of 3-11 UPC-A.

Multiple-scan setting		Single ocen potting		
Option barcode	Option	Alpha. entry	Single-scan setting	
Read	Disable	00*		
	Enable	01		
Max. code length	00-99	00-99		
	00-99	99*		
Min. code length	00-99	00-99		
	00-99	04*		
Code ID setting	00-FF ₁₆	00-FF ₁₆		
	(ASCII)	<h>*</h>		
Insert group selection	00.44	00-44		
	00-44 M%		00*	

3-19 Matrix 2 of 5

Read:

Format

Data digits (variable) Check digit (optional)

Check digit verification: The check digit is made as the sum module 10 of the numerical values of all data

digits.

Check digit transmission: By setting Enable, check digit will be transmitted.

Max./Min. code length: Refer to Max./Min. code length of 3-16 Code 39.

Code ID setting: Refer to Code ID setting of 3-11 UPC-A.

Multiple-scan setting			Ola ala a a a a a a a a a a a a a a a a
Option barcode	Option	Alpha. entry	Single-scan setting
Read	Disable	00	
	Enable	01*	
Check digit verification	Disable	00*	
	Enable	01	
Check digit transmission	Disable	00*	
	Enable	01	
Max. code length	00-99	00-99	
	00-99	99*	
Min. code length	00-99	00-99	
		06*	
Code ID setting	00-FF ₁₆	00-FF ₁₆	
	(ASCII)	<x>*</x>	
Insert group selection	00-44	00-44	
	00-44	00*	

3-20 Codabar

Read:

Format

Start	Data digits (variable)	Check digit (optional)	End
-------	------------------------	------------------------	-----

Check digit verification: The check digit is made as the sum module 16 of the numerical values of all data digits.

Check digit transmission: By setting Enable, check digit will be transmitted.

Max./Min. code length: Refer to Max./Min. code length of 3-16 Code 39.

Code ID setting: Refer to Code ID setting of 3-11 UPC-A.

Insertion group selection: Refer to Insertion group selection of *3-11 UPC-A*.

Start/End type: Codabar has four pairs of Start/End pattern, you may select one pair to match your

application.

Start/End transmission: Refer to Start/End transmission of 3-16 Code 39.

Start/End character equality: By setting Enable, the start and end character of a Codabar barcode must be the same.

Multiple-scan setting			Single ocen cetting
Option barcode	Option	Alpha. entry	Single-scan setting
Read	Disable	00	
	Enable	01*	
Check digit verification	Disable	00*	
	Enable	01	
Check digit transmission	Disable	00*	
	Enable	01	
Max. code length	00-99	00-99	
			99*
Min. code length	00-99	00-99	
	00-88	04*	
Code ID setting	00-FF ₁₆	00-FF ₁₆	
	(ASCII)	<n>*</n>	

Multiple-scan setting			Cinale con cotting
Option barcode	Option	Alpha. entry	Single-scan setting
Insert group selection	00.44	00-44	
	00-44	00*	
	ABCD/ABCD	00*	
Start/End type	abcd/abcd	01	
	ABCD/TN*E	02	
	abcd/tn*e	03	
Start/End transmission	Disable	00*	
	Enable	01	
Start/End character equality ####################################	Disable	00*	
	Enable	01	

3-21 Code 128

Read:

Format

Data digits (variable) Check digit (optional)

Check digit verification: The check digit is made as the sum module 103 of all data digits.

Check digit transmission: By setting Enable, check digit will be transmitted.

Max./Min. code length: Refer to Max./Min. code length of 3-16 Code 39.

Code ID setting: Refer to Code ID setting of 3-11 UPC-A.

Insertion group selection: Refer to Insertion group selection of *3-11 UPC-A*.

Truncate leading zeros: The leading "0" digits of Code 128 barcode characters can be truncated when

the feature is enabled.

Multiple-scan setting			Single coop setting
Option barcode	Option	Alpha. entry	Single-scan setting
Read	Disable	00	
	Enable	01*	
Check digit verification	Disable	00	
	Enable	01*	
Check digit transmission	Disable	00*	
	Reserved	01	
Max. code length	00-99	00-99	
	00-99	99*	
Min. code length	00-99	00-99	
	00-99	01*	
Code ID setting	00-FF ₁₆	00-FF ₁₆	
	(ASCII)	<k>*</k>	
Insert group selection	00-44	00-44	
	00 44	00*	
	Disable	00*	
Truncate leading zeros	All leading "0"s	01	
	Only the first "0"	02	

3-22 UCC/EAN 128

Read:

Format

Data digits (variable) Check digit (optional)

Check digit verification: The check digit is made as the sum module 103 of all data digits.

Check digit transmission: By setting Enable, check digit will be transmitted.

Max. /Min. code length: Refer to Max./Min. code length of 3-16 Code 39.

Code ID setting: Refer to Code ID setting of 3-11 UPC-A.

Insertion group selection: Refer to Insertion group selection of *3-11 UPC-A*.

Truncate leading zeros: Refer to Truncate leading zeros of 3-23 Code 128.

Multip	Multiple-scan setting		
Option barcode	Option	Alpha. entry	Single-scan setting
Read	Disable	00	
	Enable	01*	
Check digit verification	Disable	00	%2502D00%
	Enable	01*	
Check digit transmission	Disable	00*	
%2503M%	Reserved	01	
Max. code length	00-99	00-99	
	00 00	99*	
Min. code length	00-99	00-99	
	00-99	01*	
Code ID setting	00-FF ₁₆	00-FF ₁₆	
	(ASCII)	<k>*</k>	
Insert group selection	00-44	00-44	
	55 . 1	00*	
Truncate leading zeros	Disable	00*	
######################################	All leading "0"s	01	%2508D01%
	Only the first "0"	02	%2508D02%

3-23 ISBT 128

Read:

Format

"=" or "&" Data digits (variable) Check digit (optional)

Check digit verification: The check digit is made as the sum module 103 of all data digits.

Check digit transmission: By setting Enable, check digit will be transmitted.

Max./Min. code length: Refer to Max./Min. code length of 3-16 Code 39.

Code ID setting: Refer to Code ID setting of 3-11 UPC-A.

Multiple-scan setting			0!
Option barcode	Option	Alpha. entry	Single-scan setting
Read	Disable	00	
	Enable	01*	
Check digit verification	Disable	00	
	Enable	01*	
Check digit transmission	Disable	00*	
	Reserved	01	%3303D01%
Max. code length	00-99	00-99	
	00-99	99*	
Min. code length	00.00	00-99	
	00-99	01*	
Code ID setting	00-FF ₁₆	00-FF ₁₆	
	(ASCII)	<k>*</k>	
Insert group selection	00.44	00-44	
%3307M%	00-44	00*	

3-24 Code 93

Read:

Format

Data digits (variable) 2 check digits (optional)

Check digit verification: The check digit is made as the sum module 47 of the numerical values of all data

digits.

Check digit transmission: By setting Enable, check digit will be transmitted.

Max./Min. code length: Refer to Max./Min. code length of 3-16 Code 39.

Code ID setting: Refer to Code ID setting of 3-11 UPC-A.

Multiple-scan setting			Single open gotting		
Option barcode	Option	Alpha. entry	Single-scan setting		
Read 	Disable	00	%2101 D00%		
	Enable	01*			
Check digit verification	Disable	00			
	Enable	01*			
Check digit transmission	Disable	00*			
	Enable	01			
Max. code length	00-99	00-99			
	00-99	99*			
Min. code length	00.00	00-99			
	00-99	00-33		01*	
Code ID setting	00-FF ₁₆	00-FF ₁₆			
	(ASCII)	<l>*</l>			
Insert group selection	00.44	00-44			
	00-44 'M%	00*			

3-25 Code 11

Read:

Format

Data digits (variable) Check digit 1 (optional) Check digit 2 (optional)

Check digit verification: The check digit is presented as the sum module 11 of all data digits.

Check digit transmission: By setting Enable, check digit 1 and check digit 2 will be transmitted upon your selected check digit verification method.

Max./Min. code length: Refer to Max./Min. code length of 3-16 Code 39.

Code ID setting: Refer to Code ID setting of 3-11 UPC-A.

Multiple-scan setting			Observa and addition
Option barcode	Option	Alpha. entry	Single-scan setting
Read	Disable	00*	
	Enable	01	
	Disable	00	
Check digit verification	One digit	01*	
	Reserved	02	
	Reserved	03	
Check digit transmission	Disable	00*	
	Enable	01	
Max. code length		00-99	
	00-99	99*	
Min. code length	00.00	00-99	
	00-99	04*	
Code ID setting	00-FF ₁₆	00-FF ₁₆	
	(ASCII)	<v>*</v>	
Insert group selection	00-44	00-44	
	00-44	00*	

3-26 MSI/Plessey

Read:

Format

Data digits (variable) Check digit 1 (optional) Check digit 2 (optional)

Check digit verification: The MSI/Plessey has one or two optional check digits. There are three methods of verifying check digits, i.e. Mod 10, Mod 10/10 and Mod 10/11. The check digit 1 and check digit 2 will be calculated as the sum module 10 or 11 of the data digits.

Check digit transmission: By setting Enable, check digit 1 and check digit 2 will be transmitted upon your selected check digit verification method.

Max./Min. code length: Refer to Max./Min. code length of 3-16 Code 39.

Code ID setting: Refer to Code ID setting of 3-11 UPC-A.

Multiple-sca	Multiple-scan setting			
Option barcode	Option	Alpha. entry	Single-scan setting	
Read	Disable	00*		
	Enable	01		
	Disable	00*		
Check digit verification	1 digit (Mod 10)	01		
	2 digit (Mod 10/10)	02		
	2 digit (Mod 10/11)	03		
Check digit transmission	Disable	00*		
	Enable	01		
Max. code length	00-99	00-99		
		99*		
Min. code length	00-99	00-99		
	00-99	04*		
Code ID setting	00-FF ₁₆	00-FF ₁₆		
	(ASCII)	<0>*		
Insert group selection	00-44	00-44		
	00-44	00*		
111 1 1 11 11 11 1 1 1				

3-27 UK/Plessey

Read:

Format

Data digits (variable) 2 check digits (optional)

Check digit verification: The UK/Plessey has one or two optional check digits. The check digit 1 and

check digit 2 will be calculated as the sum module 10 or 11 of the data digits.

Check digit transmission: By setting Enable, check digit will be transmitted.

Max./Min. code length: Refer to Max./Min. code length of *3-16 Code 39*.

Code ID setting: Refer to Code ID setting of 3-11 UPC-A.

Multiple-scan setting			Cinale coop outling								
Option barcode	Option	Alpha. entry	Single-scan setting								
Read	Disable	00*									
	Enable	01									
Check digit verification	Disable	00									
	Enable	01*									
Check digit transmission	Disable	00*									
	Enable	01									
Max. code length	00-99	00-99									
		99*									
Min. code length	00-99	00-99									
		00-33	00-33	00-99	00 00	00-09	00-99	00-99	00-99	00-99	01*
Code ID setting	00-FF ₁₆	00-FF ₁₆									
	(ASCII)	<u>*</u>									
Insert group selection	00 44	00-44									
	00-44	00*									
		<u> </u>									

3-28 China Post

Read:

Format

11 Data digits

Max. /Min. code length: Refer to Max./Min. code length of 3-16 Code 39. The code length of China Post

is 11.

Code ID setting: Refer to Code ID setting of 3-11 UPC-A.

Multiple-scan setting			Cinale coop cetting
Option barcode	Option	Alpha. entry	Single-scan setting
Read	Disable	00	
	Enable	01*	
Max. code length	00-99	00-99	
	00-99	11*	
Min. code length	00-99	00-99	
	00-99	11*	%2605D11% *
Code ID setting	00-FF ₁₆	00-FF ₁₆	
	(ASCII)	<t>*</t>	
Insert group selection	00-44	00-44	
		00*	

3-29 China Finance

Note: This type of barcode is not Omni-directionally decodable. The encodable character set includes numeric 0 to 9. Among the symbol of 0 to 9, 0 and 2, 4 and 9, 5 and 8, 6 and 7, have the symmetrical pattern; the pattern of 1 and 3 is symmetrical.

Read:

Format

10 Data digits

Max./Min. code length: Refer to Max./Min. code length of 3-16 Code 39.

Check digit verification: The check digit is made as the sum module 10 of the numerical values of all data digits.

Leading character 5/6/7/8/9 converted to A/B/C/D/E: By setting, leading character 5/6/7/8/9 can be converted to A/B/C/D/E.

Leading character assignment: By setting, only the barcode with the assigned leading character can be output.

Code ID setting: Refer to Code ID setting of 3-11 UPC-A.

Multiple-scan setting			Olaska asaa astiin a
Option barcode	Option	Alpha. entry	Single-scan setting
Read 	Disable	00*	%3201D00% *
	Enable	01	
Max. code length	00-99	00-99	
		10*	%3202D10% *
Min. code length	00-99	00-99	
		10*	%3203D10% *
Check digit verification William Will	Disable	00*	
	Reserved	01	
Leading character 5/6/7/8/9 converted to A/B/C/D/E	Disable	00	
	Enable	01*	######################################
	Only 5 converted to A	02	
	Only 6 converted to B	03	

Multiple-scan setting			01 1 41
Option barcode	Option	Alpha. entry	Single-scan setting
	Only 7 converted to C	04	%3205D04%
	Only 8 converted to D	05	%3205D05%
	Only 9 converted to E	06	%3205D06%
Leading character assignment	Disable	00	%3206D00%
	Assigned to 0	01*	######################################
	Assigned to 5 (A)	02	%3206D02%
	Assigned to 6 (B)	03	
	Assigned to 7 (C)	04	
	Assigned to 8 (D)	05	%3206D05%
	Assigned to 9 (E)	06	
	Assigned to 1	07	%3206D07%
	Assigned to 2	08	%3206D08%
	Assigned to 3	09	%3206D09%
	Assigned to 4	10	%3206D10%
Code ID setting	00-FF ₁₆ (ASCII)	00-FF ₁₆	
		<y>*</y>	%3207H59% *
Insert group selection	00-44	00-44	
		00*	



3-30 GS1 DataBar (GS1 DataBar Truncated)

GS1 DataBar Truncated is structured and encoded the same as the standard GS1 DataBar format, except its height is reduced to a 13 modules minimum; while GS1 DataBar should have a height greater than or equal to 33 modules.

Read:

Format

16 Data digits

Code ID setting: Refer to Code ID setting of 3-11 UPC-A.

Insertion group selection: Refer to Insertion group selection of *3-11 UPC-A*.

Conversion:

UCC/EAN 128- Refer to Code ID transmission of *3-41 String transmission*,]Cm will be identified as AIM ID.

UPC-A or EAN-13- Barcode beginning with a single zero as the first digit has the leading "010" stripped and the barcode reported as EAN-13. Barcode beginning with two or more zeros but not six zeros has the leading "0100" stripped and the barcode reported as UPC-A.

Mult	Cinale compatting		
Option barcode	Option	Alpha. entry	Single-scan setting
Read 	Disable	00	
	Enable	01*	
Code ID setting	00-FF ₁₆ (ASCII)	00-FF ₁₆	
		<r>*</r>	
Insert group selection	00-44	00-44	
		00*	
Conversion 	None	00*	
	UCC/EAN 128	01	
	UPC-A or EAN-13	02	

3-31 GS1 DataBar Limited

Read:

Format

16 Data digits

Code ID setting: Refer to Code ID setting of 3-11 UPC-A.

Insertion group selection: Refer to Insertion group selection of 3-11 UPC-A.

Conversion: Refer to Conversion of 3-30 GS1 DataBar (GS1 DataBar Truncated).

Multip	Cinals coop cetting		
Option barcode	Option	Alpha. entry	Single-scan setting
Read	Disable	00	
	Enable	01*	
Code ID setting	00-FF ₁₆	00-FF ₁₆	
	(ASCII)	<r>*</r>	
Insert group selection	00-44	00-44	
	00-44	00*	
	None	00*	
Conversion	UCC/EAN 128	01	
	UPC-A or EAN-13	02	
	UCC/EAN 128	01	%2804D00% *

3-32 GS1 DataBar Expanded

Read:

Format

Data characters (variable)

Code ID setting: Refer to Code ID setting of 3-11 UPC-A.

Insertion group selection: Refer to Insertion group selection of 3-11 UPC-A.

Conversion:

UCC/EAN 128- Refer to Code ID transmission of *3-41 String transmission*,]Cm will be identified as AIM

ID.

Multiple	Ola alla a a a a a a a a a a a a a a a a		
Option barcode	Option	Alpha. entry	Single-scan setting
Read	Disable	00	
	Enable	01*	
Max. code length	00-99	00-99	
	00-99	99*	
Min. code length		00-99	
	00-99	01*	
Code ID setting	00-FF ₁₆	00-FF ₁₆	
	(ASCII)	<r>*</r>	
Insert group selection	00-44	00-44	
	00-44	00*	
Conversion	None	00*	
	UCC/EAN 128	01	

3-33 PDF417

Read:

Format

Data characters (variable)

Multiple-scar	Single coop setting		
Option barcode	Option Alpha. entry		Single-scan setting
Read	Disable	00	
	Enable	01*	



3-34 QR Code

Read:

Format

Data characters (variable)

Multiple-scan	Cingle coop coffing		
Option barcode	Option Alpha. entry		Single-scan setting
Read	Disable	00	
	Enable	01*	



3-35 Data Matrix

Read:

Format

Data characters (variable)

Multiple-sc	Single coop cotting		
Option barcode	Option Alpha. entry		Single-scan setting
Read	Disable	00	
	Enable	01*	



3-36 Han Xin Code

Note: The support for this feature is available with customized firmware version.

Read:

Format

Data digits (variable)

Mul	Cingle occur cotting		
Option barcode	Option	Alpha. entry	Single-scan setting
Read	Disable	00*	
	Enable	01	
	•	•	

3-37 Aztec Code

Read:

Format

Data digits (variable)

Multiple-scan setting			Single occupating
Option barcode	Option Alpha. entry		Single-scan setting
Read	Disable	00*	
	Enable	01	

3-38 MicroQR Code

Note: The support for this feature is available with customized firmware version.

Read:

Format

Data digits (variable)

Multip	le-scan setting	Single coop cotting	
Option barcode	Option	Alpha. entry	Single-scan setting
Read	Disable	00*	
	Enable	01	
	- 1	•	



3-39 MicroPDF417 Code

Note: The support for this feature is available with customized firmware version.

Read:

Format

Data digits (variable)

Multiple-scan setting			Cinale compatible
Option barcode	Option Alpha. entry		Single-scan setting
Read	Disable	00*	
	Enable	01	
NI 1181 N W W 1111 N W W		l .	



3-41 G1-G6 & C1-C3 & FN1 substitution string setting

Format of barcode data transmission:

Prefix Code nan	e Preamble	Code ID	Code length	Code data	Code ID	Postamble	Suffix	
-----------------	------------	---------	-------------	-----------	---------	-----------	--------	--

Suffix string setting: The <enter > key is represented in different ASCII when it is applied by different OS. For a Windows/DOS OS, <enter> is represented as <CR><LF> (0x0D 0x0A); for an Apple MAC OS, <enter> is represented as <CR> (0x0D); for a Linux/Unix OS, <enter> is represented as <LF> (0x0A).

Prefix/Suffix/Preamble/Postamble string setting:

They are appended to the data automatically when a barcode is decoded.

Example: Add a symbol of "\$" as a prefix for all symbols.

Steps:

- 1) Scan the option barcode of Prefix string setting.
- 2) Use the ASCII table to find the value of \$→24.
- 3) Scan 2 and 4 from the barcode on the last page.
- 4) Scan END barcode.

Scanning steps: Scan the following barcodes in order.





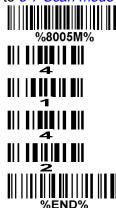
Insert G1/G2/G3/G4 string setting: The scanner offers 4 positions and 4 character strings to insert among the symbol.

Example: Set G1 string to be "AB".

Original code data	"1 2 3 4 5 6"
Output code data	"1 2 A B 3 4 5 6"

Steps:

- 1) Scan the option barcode of Insert G1 string setting.
- 2) Use the ASCII table to find the value of $A\rightarrow41$, $B\rightarrow42$.
- 3) Scan 4, 1 and 4, 2 from the barcode on the last page.
- 4) Scan END barcode.
- 5) Refer to 3-41 G1-G4 string position & Code ID position.
- 6) Refer to 3-7 Scan mode & some global settings







Testing barcode:



FN1 substitution string setting: The FN1 character (0x1D) in an UCC/EAN128 barcode, or a Code 128 barcode, or a GS1 DataBar barcode can be substituted with a defined string.

Truncate leading G5 string setting: By setting, a defined leading character or string can be truncated. Also a single character can be un-defined.

Repeat of a G5 character setting: While G5 is set as a single defined/un-defined character, G5 can also be set to be repeated. This setting is ignored when the truncate number is more than the barcode data characters. The option of "FF" for this setting is not active while the option of Truncate leading G5 string setting is "00".

Example: Truncate all leading zeros for all symbols.

Original code data	"0 0 0 1 2 3 4 5 6"
Output code data	"1 2 3 4 5 6"

Steps: scan the following data in order.







Testing barcode:



Truncate ending G6 string setting: By setting, a defined ending character or string can be truncated. Also a single character can be un-defined.

Repeat of a G6 character setting: While G5 is set as a single defined/un-defined character, G6 can also be set to be repeated. This setting is ignored when the truncate number is more than the barcode data characters. The option of "FF" for this setting is not active while the option of Truncate ending G6 string setting is "00".

Single character C1/C2 replacement: By setting, a defined character in the data string can be replaced by another defined character. The C1 and C2 replacement can be applied simultaneously.

Example: Replace all the "A" character in a data string with "B" character.

Original code data	"1 2 3 A 5 A"
Output code data	"1 2 3 B 5 B"

Steps: scan the following barcodes in order. The ASCII value for "A" is 41, and the ASCII value for "B" is 42.





Testing barcode:



Multiple characters C3 replacement: By setting, a number of defined characters in the data string can be replaced by other defined characters. The maximum number of characters to replace is 11.

Example: Replace all the "A" character in a data string with "B" character; replace "C" with "D"; replace "E" with "F".

Original code data	"1 2 3 A 4 C 5 6 E 7 8"
Output code data	"1 2 3 B 4 D 5 6 F 7 8"

Steps: scan the following barcodes in order. The ASCII value for "A" is 41, for "B" is 42, for "C" is 43, for "D" is "44", for "E" is 45, and for "F" is 46.



Testing barcode:



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Multipl	Single ocen cetting		
Option barcode	Option Alpha. Entry		Single-scan setting
Prefix string setting	0-22 characters	00-FF ₁₆	
	None	00*	
Suffix string setting	0-22 characters	00-FF ₁₆	
	<enter></enter>	0D0A*	
Preamble string setting	0-22 characters	00-FF ₁₆	
	None	00*	
Postamble string setting	0-22 characters	00-FF ₁₆	
	None	00*	
Insert G1 string setting	0-22 characters	00-FF ₁₆	
	None	00*	
Insert G2 string setting	0-22 characters	00-FF ₁₆	
	None	00*	
Insert G3 string setting	0-22 characters	00-FF ₁₆	
	None	00*	######################################
Insert G4 string setting	0-22 characters	00-FF ₁₆	
	None	00*	
FN1 substitution string setting	0-4 characters	00-FF ₁₆	
	<sp></sp>	20*	######################################
Truncate leading G5 string setting	A un-defined character	00	
	1-22 defined characters	01-7F ₁₆	
%8010M%	<0>	30*	

Multiple-scan setting			
Option	Alpha. Entry	Single-scan setting	
Once	01*		
Defined times	01-22		
Un-defined times (All)	FF	######################################	
A un-defined character	00		
1-22 defined characters	01-7F ₁₆		
<0>	30*		
Once	01*		
Defined times	01-22		
Un-defined times (All)	FF	######################################	
<0000>	0000*		
20000 2	0000-FFFF ₁₆		
	0000*		
~0000 <i>></i>	0000-FFFF ₁₆		
	0000*		
-	-		
	Option Once Defined times Un-defined times (All) A un-defined character 1-22 defined characters <0> Once Defined times	Option Alpha. Entry Once 01* Defined times 01-22 Un-defined times (All) FF A un-defined character 00 1-22 defined characters 01-7F ₁₆ <0> 30* Once 01* Defined times 01-22 Un-defined times (All) FF <0000> 0000* <0000> 0000* <0000> 0000-FFFF 16 00000*	

3-41 G1-G4 string position & Code ID position

Format of barcode data transmission:

Insert G1/G2/G3/G4 string position: The scanner offers 4 positions to insert strings among the symbol. In case of the insertion position is greater than the length of the symbol, the insertion of string is not effective.

Code ID position: It is allowed to select different positions of code ID placement.

Multiple-scan setting			Cingle coop cotting
Option barcode	Option	Alpha. entry	Single-scan setting
Insert G1 string position	00-99	00-99	
	00-99	00*	
Insert G2 string position	00-99	00-99	
	00-99	00*	
Insert G3 string position	00.00	00-99	
	00-99	00*	######################################
Insert G4 string position	00-99	00-99	
	00-99	00*	
Code ID position	Before code data	00*	
	After code data	01	

3-42 String transmission

Note: The information in this chapter is closely related to the chapter of String setting.

Format of barcode data transmission:

Prefix transmission: By setting Enable, prefix will be appended before the data transmitted.

Suffix transmission: By setting Enable, suffix will be appended after the data is transmitted.

Code name transmission: By setting Enable, code name will be transmitted before code data.

Preamble transmission: By setting Enable, preamble will be appended before the data transmitted.

Postamble transmission: By setting Enable, postamble will be appended after the data is transmitted.

Code ID transmission: Code ID can be transmitted in the format of either Proprietary ID or AIM ID. Refer to *1-2 Default setting for each barcode*.

Code length transmission: The length of code data string can be transmitted before the code data when Enable is selected.

Case conversion: The characters within code data or the whole output string can be set in either upper case or lower case.

FN1 substitution transmission: The scanner supports a FN1 substitution feature for USB and RS-232 interface. The replacement string of FN1 can be chosen by user (see *3-41 G1-G6 & C1-C3 & FN1 substitution string setting*).

All-non-printable-character string transmission with string setting: By setting enable, all string settings, e.g. Preamble transmission or Insert G1 string setting, are active for an all-non-printable-character string. Here a non-printable character means a character with ASCII value between 0x00 to 0x1F.

Transmit the first N data characters only: The scanner supports to only transmit the first N data characters of a barcode. The number of N can be set as a digit between 1 and 99.

Transmit the last N data characters only: The scanner supports to only transmit the last N data characters of a barcode. The number of N can be set as a digit between 1 and 99.

Multiple-scan setting			Cinale com coming
Option barcode	n barcode Option Alpha. entry		Single-scan setting
Prefix transmission	Disable	00*	
	Enable	01	
Suffix transmission	Disable	00	######################################
	Enable	01*	
Code name transmission	Disable	00*	
	Enable	01	######################################
Preamble transmission	Disable	00*	
	Enable	01	
Postamble transmission	Disable	00*	
	Enable	01	%8205D01%
Ondo ID to consission	Disable	00*	
Code ID transmission	Proprietary ID	01	%8206D01%
%8206M%	AIM ID	02	
Code length transmission	Disable	00*	
%8207M%	Enable	01	
	Disable	00*	
Caco conversion	Upper (data only)	01	
Case conversion	Lower (data only)	02	%8208D02%
	Upper (whole string)	03	%8208D03%
	Lower (whole string)	04	%8208D04%
FN1 substitution transmission	Disable	00*	

Multiple	Cinale con cotting			
Option barcode	Option	Alpha. entry	Single-scan setting	
	USB	01		
	RS-232	02	%8209D02%	
	USB/RS-232	03	%8209D03%	
All-non-printable-character string transmission with string setting	Disable	00*		
	Enable	01		
Transmit the first N data characters only	All	99*		
	01-99			
Transmit the last N data characters only	All	99*	∥∥∭∭∭∭∭∭ %8212D99% ∗	
	01-99			
111 1 1 1 1 1 1 1 1 1				

4 Maintenance

Cleaning the scan window is the only maintenance required. A dirty window may affect scanning accuracy.

- 1. Do not allow any abrasive material to touch the window.
- 2. Remove any dirt particles with a damp cloth.
- 3. Wipe the window using a tissue moistened with water.
- 4. Do not spray water or other cleaning liquids directly into the window.
- 5. Use a piece of soft and dry cloth when cleaning the scanner.

5 Barcode representing non-printable character

Notes to make the following barcode:

- 1. According to different barcode printing software, the method of printing following barcode is different.
- 2. If using CODESOFT software, firstly read the information through "Help→Index→Code128→Special input syntax". Also refer to ASCII table. For example, if we wish to make "F1" barcode, select "Code128", then select "CODE A" type, and input "{DC1}" as data.

	Triselect CODE A type, and input to		
Up ↑		Down ↓	
	Left ←		Right →
Page Up		Page Down	
	Backspace		Tab
Home		End	
	Enter		Insert
II II III III III Delete		 	
		W 11 8 11 8 11	
			
			Esc
	. 10	∥∥∭∭ F12	200
ГП		ГІ	

6 ASCII Table

	for keyboard wedge		for RS-232	
H	0	1	0	1
0	Null		NUL	DLE
1	Up	F1	SOH	DC1
2	Down	F2	STX	DC2
3	Left	F3	ETX	DC3
4	Right	F4	EOT	DC4
5	PgUp	F5	ENQ	NAK
6	PgDn	F6	ACK	SYN
7		F7	BEL	ETB
8	Bs	F8	BS	CAN
9	Tab	F9	HT	EM
Α		F10	LF	SUB
В	Home	Esc	VT	ESC
С	End	F11	FF	FS
D	Enter	F12	CR	GS
E	Insert	Ctrl+	SO	RS
F	Delete	Alt+	SI	US

Notes: The 2nd and the 3rd columns above are used for keyboard wedge only.

H	2	3	4	5	6	7
0	SP	0	@	Р	`	р
1	!	1	Α	Q	а	q
2	u	2	В	R	b	r
3	#	3	С	S	С	S
4	\$	4	D	Т	d	t
5	%	5	Е	U	е	u
6	&	6	F	V	f	٧
7	•	7	G	W	g	W
8	(8	Н	Х	h	х
9)	9	I	Υ	i	у
Α	*	:	J	Z	j	Z
В	+	;	K	[k	{
С	,	٧	L	\	- 1	
D	-	II	М]	m	}
E		>	N	۸	n	~
F	1	?	0	_	0	DEL

Example: ASCII "A" = "41".

7 Test barcode





PDF417



12=890ab-+%xyz

QR code



1234567890ABCD-+()&*%^@#\$!XYZ

Data Matrix



123890abc-+=&*%^!mdo

Aztec Code

(Default setting: Disable)



12345678901234567890

Han Xin Code

(Default setting: Disable)



1234567890Hanxin

Micro QR Code

(Default setting: Disable)



0123456789MicroQR

8 Return default parameters & list firmware version



WARNING: Default value initialization

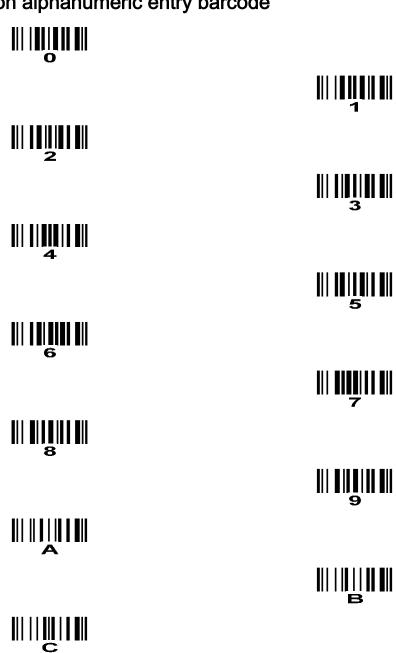
If you wish to return the scanner to all the factory default settings, scan the barcode above.



Firmware version list

If you wish to display the firmware version, scan the barcode above.

9 Configuration alphanumeric entry barcode



To finish parameter setting, please scan the bar code below.

