NOTICE:

This device complies with Part 15 of the FCC Rules.
Operation shall be subject to the following two conditions:
(1) This device may not cause harmful interface, and
(2) This device must accept any interface received, including interface that may cause undesirable

operation.

This equipment has been tested and complied with the limits for a Class a digital device, pursuant to Part 15 of the FCC Rules. These limits are designed to provide a reasonable protection against harmful interface when the equipment is operated under a commercial environment. This equipment generates, uses, and can radiate radio frequency energy and, if not installed and used in accordance with the instruction manual, may cause harmful interface to radio communications. Operation of this equipment in a residential area is likely to cause harmful interface in which case the user will be required to correct the interface at his own expenses.

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

Note: Specification is subject to changes without notice.

Using the ArgoxScan 8000

The ArgoxScan can automatically scan barcode at a distance.

Simply aim and pull the trigger. Code scanning is performed

along the center of the light bar emitted from the reading

window. This bar must cover the entire code.

Successful scanning shall be obtained by tilting the scanner

with respect to the barcode to avoid direct reflections that

impair the reading performance.

Recommended Steps

When the required settings have been configured, all settings are stored in non- volatile memory of scanner after reading EXIT Label. Recommended steps are as follows.

- Host interface will be automatically detected. User does not need to set host interface for the scanner.
- Set interface to optimize protocol of scanner with your host in interface section.
- Set system control of scanner, such as specific adjustments double confirm, power saving, indicator and scanning mode which you prefer usage in system control section.
- Set code options of scanner for your usage in code option section. You must make sure to enable the symbology first, then Min./Max. code length, code ID checksum and truncate digits are also converted.
- 5) Set string format of the scanner, such as preamble, postamble Prefix, suffix, code ID and code name transmission for your application in string format section.
- **Note:** If still not work properly. Please contact your dealer for further information.

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Introduction

Installation- Keyboard Wedge

- 1) First of all, you must switch off power for the terminal/computer.
- Disconnect the keyboard cable from the back of the terminal/computer and connect to the interface cable of the scanner.
- 3) Connect the interface cable of the scanner to the terminal/computer.
- 4) Turn the terminal/computer power on.

RS-232

- 1) Disconnect power to the terminal/computer.
- 2) Connect the external power supply (DC adapter) to the interface cable of the scanner.
- Plug the serial connector into the serial port on the back of your computer/terminal. Tighten the two screws to secure the connector to the port.
- 4) Plug the power pack into power source.
- 5) Once the scanner has been fully connected, turn the terminal/computer power back on.

USB (Simulate with keyboard wedge)

- 1) Connect the USB cable between to the terminal/computer.
- 2) Windows will automatically detect the USB device.
- **Note:** If any of the above operation is incorrect, turn off the power immediately and checking any improper connections. Go through all above steps again.

Default setting For each barcode shown as below:

Code Type	Read Enable	Checksum Verification Enable	Checksum Transmission Enable	Code ID
UPC-A	V	V	V	А
UPC-E	V	V	V	E
EAN-13	V	V	V	F
EAN-8	V	V	V	FF
Code-39	V			*
Interleaved 2 of 5	V			I
Industrial				
2 of 5		-	-	
Matrix 2 of 5				В
Codabar				%
Code-128	V	V		#
Code-93		V two digits		&
Code-11		V One digit		0
MSI/Plessey		V		@
UK/Plessey		V		@
Telepen				S
Standard 2 of 5				<u> </u>
RSS-14		-	-	R4
RSS-Limited		-	-	RL
RSS-Expanded		-	-	RX
China Post		-	-	t
Italian Pharmacode.		-	-	р

AS-8000 Specification

ArgoScan 8000	001100	
Specification	Model AS-8000 series	
Operational		
Light Source	660 nm Visible Red LED	
Optical System	2048 pixel CCD	
	(Charge-coupled device)	
Depth of Scan Field	0-180 mm	
	(CODE 39, 500Lux, PCS=90%, 20mils)	
Scanning Width	50 mm wide @ 10mm	
Scan Speed	100 scans/sec	
Resolution	0.1mm (4mils) Code39,PCS=90%	
Print Contrast	45% or more	
Scanning Angle	Pitch: 60° Yaw: 70°	
Decode Capability	Auto-discriminates all standard one	
	dimension barcodes	
Beeper Operation	7 tones or no beep	
Indicator	Green led and beep sound	
Mechanical		
Length	176 mm	
Width-handle	40 mm	
Width-head	67 mm	
Depth-handle	30 mm	
Depth-head	40 mm	
Weight	90 g (cable not included)	
Cable – K/B wedge	Straight 2.0 m	

Connector type	Crimp type female connector	
Case material	ABS plastic	
Cushion material	TPR	
Electrical		
Input Voltage	5 VDC ± 0.25V	
Power - Operating	Max. 750 mW	
Power - Standby	150 mW	
Current - Operating	Max. 150 mA @ 5 VDC	
Current - Standby	30 mA @ 5 VDC	
DC Transformers	Class 2; 5VDC @ 450 mA	
Agency listing	FCC Class A, CE	
Environmental		
Operating	0℃ to 45℃ (32℉ to 113℉)	
Temperature		
Storage	-20°C to 60°C	
	(-4°F to 140°F)	
Humidity	10% to 90% relative humidity,	
	non-condensing	
Light Level	Up to 20000 Lux	
Shock	1.5m drop onto concrete	
Contaminants	Seals to resist airborne particulate	
	contaminants	
Ventilation	None required	

	1
4	ŧ.

Programming	
	Manual (Reading special barcode),
Programming	DOS command through RS-232
method	(RS-232 model)
Programmable	Code type selection, check digit
characteristics	selection, Decoding option
	Transmitted character delay, Header
	selection, trailer selection, message
	suffix, good read beep tone and
	volume, scanner trigger selection
	Keyboard emulation type
	(intermessage delay, keyboard type
	and keyboard language)
	Serial interface type (ACK/NAK,
	Xon/Xoff, RTS/CTS, good read LED
	control, start/stop bits)

Programming the ArgoScan 8000 Series Scanner

To program the 8000 series scanner, you must scan a series of programming barcode in the correct order. Fold out the back cover of this manual. You will see a table of alphanumeric barcodes, which are used to program the various options presented.

To program each option, you must:

- 1. Scan the Program barcode on the parameter setting part.
- Enter the option mode by scanning the Option Bar Code (also on the Parameter setting part).
- To the right of the option barcode, the necessary alphanumeric inputs are listed. Scan these alphanumeric entries from the **back fold out** page. To confirm above steps, you must scan the **Finish** barcode on the back fold out page.
- 4. Once you have finished programming. Scan the **Exit** barcode, listed on the lower right hand corner of each parameter setting part.

"\$%+PRO"	Program	Program Barcod	e
Option Bar Code	Option	Alphanumeric Entry	100
784	Good-read off	00	
Scanning mode	Momentary	01 *	
	Alternate	02	
	Timeout off	03	
	Continue	04	
	Test only	05	
			Bolina Bolina
Option Barcode	Exit Ba		Fold Out Finish barcode

Interface Selection

This decoder built-in scanner comes in three models and supports interfaces such as keyboard wedge, RS232 serial, and the latest USB interface. You will need to select an appropriate model for a specific interface. **Interface selection:** The factory interface default can not be changed for other type interface. One specific model only supports the appropriate host interface.

For the appropriate model number of AS-8000 to various PC computer/terminal and packaging, please consult your local vendor or Argox sales team at <u>info@argox.com</u>

Keyboard wedge

As a keyboard interface, the scanner supports most of the popular PCs and IBM terminals. The installation of the wedge is a fairly simple process without any changes of software or hardware.

Keyboard Type: AS-8000 keyboard wedge model only supports keyboard interface with PS/2 type connector.



Program

Option Bar Code	Option	Alphanumeric
		Entry
	IBM PS/2	00 *
2AA	Reserved	01
Keyboard type	Reserved	02
	Reserved	03
	Reserved	04
	Reserved	05
	Reserved	06



Exit

Keyboard wedge

Keyboard Layout: The selecting of keyboard layout supports many country languages other than USA keyboard layout. First you need to confirm country language that you desire. In DOS, using command "keyb" to select the desirable keyboard layout or in WINDOWS entry "Control" then pops "Keyboard" to select country at "language" item. For details, please refer to your DOS or WINDOWS user's manual.

Keyboard Speed: By selecting, you can change output speed of scanner to match with host computer. Generally, set 00 or 01 in working high speed. If some output characters of barcode have been lost, you may need to set 05 or 06 to match your host keyboard speed.

Function Key: Set Enable, scanner can output code as pressing function-key in your application program while the barcode datas contain ASCII value between 0116 to 1F16. Refer to ASCII table.

Numeric Key: The Keypad has to be selected if your application program is only keypad numeric code acceptable. So, scanner will output code as press numeric keypad when it read numeric digit. (The keypad is in the right side of keyboard, and Num Lock control key is also on.) If Alt+Keypad is selected, Caps Lock and output will be independent.



Program

Option Bar Code	Option	Alphanumeric
		Entry

r		
	USA	00 *
2AB	Belgium	01
Keyboard layout	Danish	02
	France	03
	Germany	04
	Italian	05
	Portuguese	06
	Spanish	07
	Swedish	08
	Switzerland	09
	UK	10
	Latin American	11
	Japanese	12
	0-8	00-08
2AC	0 : high clock rate	03 *
Keyboard speed	8 : low clock rate	
	Disable	00
2AD	Enable	01 *
Function key		
2AE	Alphabetic key	00 *
2AE	Numeric keypad	01
Numeric key	(Num lock state	
Numeric key	(Num lock state only)	
Numeric key		02



Exit

Keyboard wedge

Caps Lock: By selecting Caps lock"ON" or Caps lock"OFF" scanner can get Caps Lock status.

Power-on simulation: All of the PCs check the keyboard status during power-on selftest. It is recommended to Enable function if you are working without keyboard installation. It simulates keyboard timing and pass keyboard present status to the PC during power-on.

Inter-character delay: This delay is inserted after each data characters transmitted. If the transmission speed is too high, the system may not be able to receive all characters. Adjust it and try out suited delay to make system work properly.

Block transmission delay: It is a delay timer between barcode data output. The feature is used to transfer continually with shorter barcode data or multi-field scanning.

\$%+PRO	Prog

\$%+PRO Program		
Option Bar Code	Option	Alphanumeric
		Entry
	Caps lock"ON"	00
2AF	Caps lock"OFF"	01 *
Caps lock		
	Disable	00 *
2AG	Enable	01
Power-on simulation		
	00-99 msec	00-99
2AH		02 *
Inter-character delay		
	00-99 10 msec	00-99
2AI		10 *
Block transmission		
delay		



RS-232

CTS: Clear To Send (Hardware Signal) RTS: Request To Send (Hardware Signal) Xon: Transmit On (ASCII Code 1116) Xoff: Transmit Off (ASCII Code13 16)

Flow control:

None-The communication only uses TxD and RxD signals without regard for 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 (Response Delay) duration, the scanner will issue a 5 warning beeps. **Xon/Xoff-** When the host computer is unable to accept data, it sends a Xoff code to inform the scanner to suspend data transmission, and Xon to continue.

ACK/NAK- When the ACK/NAK protocol is used, the scanner waits for an ACK (acknowledge) or (not acknowledge) from the host computer after data transmission, and will resend in response to a NAK.

Inter-character delay: It is delay time between data character's data output. It is also same as Inter-char. delay of keyboard wedge.

Block transmission delay: It is a delay time between barcode data output. It is also same as Block transmission delay of keyboard wedge.

Response delay: This delay is used for serial communication of the scanner to waiting for handshaking acknowledgment from the host computer.

\$%+PRO	•••

Program

Ontion Par Code	Ontion	Alphonymorio
Option Bar Code	Option	Alphanumeric
		Entry
	None	00 *
3AA	RTS/CTS	01
Flow control	Xon/Xoff	02
	ACK/NAK	03
	00-99 (msec)	00-99
3AB		00 *
Inter-character delay		
	00-99 (10 msec)	00-99
3AC		00 *
Block transmission		
delay		
	00-99 (100 msec)	00-99
3AD		20 *
Response delay		







Program

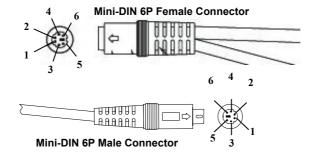
Option Bar Code	Option	Alphanumeric
		Entry
	300 BPS	00
3AE	600 BPS	01
Baud rate	1200 BPS	02
	2400 BPS	03
	4800 BPS	04
	9600 BPS	05 *
	19200 BPS	06
	38400 BPS	07
	None	00 *
3AF	Odd	01
Parity	Even	02
	8 bits	00 *
3AG	7 bits	01
Data bit		
	One bit	00 *
3AH	Two bits	01
Stop bit		



Pin Assignments

Keyboard Wedge Connector (To Host Side):

Pin	Mini-DIN 6P Male	Mini-DIN 6P Female
1	DATA / PC	CLK / KB
2	NC	GND
3	GND	DATA / KB
4	VCC (+5V)	VCC (+5V)
5	CLK / PC	NC
6	NC	NA



RS-232 DB-9F Connector (To Host Side):

Pin	Definition	
1	NC	
2	TXD	
3	RXD	
4	NC	
5	GND	
6	NC	
7	CTS	
8	RTS	
9	VCC (+5V)	רבין

Indication

Power on alert: After power-on the scanner it 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 buzzer to indicate a good barcode reading, and its Beep loudness, Beep tone freq. and Beep tone duration are adjustable.

Beep loudness/Beep tone freq./Beep tone duration: You can adjust Beep Loudness, Beep tone and Beep duration for a good reading upon favorite usage.

<note > In Beep tone frequency setting, 00~10 are used to set to Melody 0~10 and not for tone frequency 0~1000 Hz. The other values from 11~99 are defined as the beep tone frequency.

\$%+PRO

Program

Option Box Code	Ontion	Alaboaumorio
Option Bar Code	Option	Alphanumeric
		Entry
	Disable	00
5AA	Enable	01 *
Power on alert		
	Disable	00
5AB	Enable	01 *
LED indication		
	Disable	00
5AC	Enable	01 *
Beeper indication		
	00-07	00-07
5AD		07 *
Beep loudness		
	00-99 (100Hz)	00-99
5AE		27 *
Beep tone freq.		
	00-99 (10 msec)	00-99
5AF		10 *
Beep tone duration		



Transmission

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.

Insert data group 1-4 position: The scanner offers 4 positions to insert among the symbol. The position default value is "00" to indicate no character insertion. Beside, make sure insertion positions are not greater than the symbols; otherwise the insertion data is not effective.

Code ID position: Upon your usage, the transmitting position of Code ID can be selected to place Before Code Data or After Code Data when it is transmitted.



Program

Option Bar Code	Option	Alphanumeric
		Entry
	Disable	00 *
6AA	Enable	01
Preamble		
transmission		
	Disable	00 *
6AB	Enable	01
Postamble		
transmission		

	00-63	00-63
6AC	(00: no insertion)	00 *
Insert data group 1		
position		
	00-63	00-63
6AD	(00: no insertion)	00 *
Insert data group 2		
position		
	00-63	00-63
6AE	(00: no insertion)	00 *
Insert data group 3		
position		
	00-63	00-63
6AF	(00: no insertion)	00 *
Insert data group 4		
position		
	Before code data	00 *
6AG	After code data	01
Code ID position		



Exit

Transmission

Code ID transmission: If your application is needed to transmit Code ID, you must set this to Proprietary ID or AIM ID.

Code length transmission: A number of data digits can be transmitted before the code data when Enable is selected. The total length of the barcode is the number of barcode data except Truncate Leading/Ending Digits. And the length is a number with two digits.

Code name transmission: This function is to show unknown barcode symbologies that include all readable symbologies of the scanner. When Enable is selected, Code Name will be transmitted before code data, you will know what kind of barcode symbology is.

Case conversion: Under the barcode, you can set the alphabet in either upper case or lower case.



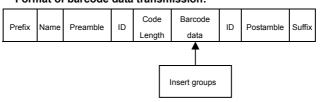
Program

Option Bar Code	Option	Alphanumeric
		Entry
	Disable	00 *
6AH	Proprietary ID	01
Code ID	AIM ID	02
transmission		

	Disable	00 *
6AI	Enable	01
Code length		
transmission		
	Disable	00 *
6AJ	Enable	01
Code name		
transmission		
	Disable	00 *
6AK	Upper case	01
Case conversion	Lower case	02
	*For barcode	
	data only	



Format of barcode data transmission:





Scan

Scanning mode:

Good-read off-The trigger button must be pressed to activate scanning. The light source of scanner stops scanning when there is a successful reading or no code is decoded after the <u>Stand-by duration</u> elapsed. **Momentary-**The trigger button acts as a switch. Press button

to activate scanning and release button to stop scanning. Alternate-The trigger button acts as a toggle switch. Press button to activate or stop scanning.

Timeout off-The trigger button must be pressed to activate scanning, and scanner stops scanning when no code is decoded after the <u>Stand-by duration</u> elapsed.

Continue-The scanner always keeps reading, and it does not matter when trigger button is pressed or duration is elapsed.

Double read timeout: If the barcode has been scanned twice, then only the first barcode will be accepted. Double confirm: If it is enabled, the scanner will require a several times successful decoding to confirm the barcode data. The more confirming times required the more inhibitive miss-reading code will be shown. If you set Double confirm, the Multi field scan Enable function won't be able to work. Supplement Check Counter: It will be more reliable to read the barcode with extension (supplement) like UPCE/A or EAN-8/13, but slow down the decoding speed when this counter is set more.



Program

Option Bar Code	Option	Alphanumeric
		Entry

	Good-read off	00
7AA	Momentary	01 *
Scanning mode	Alternate	02
	Timeout off	03
	Continue	04
	Test only	05
	01-99 (second)	01-99
7AB		06 *
Stand-by duration		
	01-99 (10 msec)	01-99
7AC		50 *
Double read timeout		
	00-99	00-09
7AD	(00: no double	00 *
Double confirm	confirm)	
	00-40	00-40
		06 *
Supplement Check		
Counter		



Scan

Global min./max. code length: Global Minimum and Maximum length can be set to qualify data entry. The length is defined as 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 the labels of the symbology will not be readable. In particular, you can set the same value for both Minimum and Maximum reading length to force the fixed length barcode decoded. The values of setting have no effect on certain symbologies with fixed length.

- Notes 1): Please set the min/max length if you have special demand for individual barcode.
 - Include the Check sum digits if you want to set Global min/max code length.

Inverted image scan: Set Enabled the scanner will scan both black/white barcode with white/black background.

CTS trigger: This operation enabled an external device to control scanning. The CTS trigger is controlled by apply an external trigger signal to the CTS input. When active, this signal causes scanning to begin as the scanner's trigger was depressed.

Position indication: This function can indicate the specific location before scanning. You can also set up the time of indication.



Option Bar Code	Option	Alphanumeric
		Entry
	00-64	00-64
7AF		04 *
Global min. code length		
	00-64	00-64
7AG		63 *
Global max.code length		
	Disable	00 *
7AH	Enable	01
Inverted image scan		
	Disable	00 *
7AI	Enable	01
CTS trigger		
	LED "on"	00 *
7AL	LED "off"	01
Stand mode selection		



String setting

Prefix characters: Up to 22 ASCII characters may be sent

before data digits.

Prefix Data Digits Suffix

Suffix characters: Up to 22 ASCII characters may be sent after data digits.

\$%+PRO Program		
Option Bar Code	Option	Alphanumeric
		Entry
	None	00 *
8AA	1-22 characters	00-ffH ASCII
Prefix characters		code
setting		
	None	0D *
8AB	1-22 characters	00-ffH ASCII
Suffix characters		code
setting		





String setting

Preamble/ Postamble characters: They are appended to the data automatically when each barcode is decoded. Example:

Add a prefix/suffix or preamble/postamble for all symbologies. In this example, you are sending a \$ symbol as a prefix for all symbologies.

Steps:

1) Scan Programming and Prefix characters setting barcode.

- 2) Use the ASCII code table to find the value of \rightarrow 24.
- 3) Scan 2 and 4 from the barcode on the fold out back page.
- 4) Scan Finish from the barcode on the fold out page.
- 5) Scan Exit barcode.

Insert G1/G2/G3/G4 character setting: The scanner offer 4 positions and 4 characters to insert among the symbol. Example: Barcode "1 2 3 4 5 6".

Output- Barcode "1 2 A B 3 4 C D 5 6".

Steps:

- 1) Scan Programming and Insert G1 characters setting barcode.
- 2) Use the ASCII code table to find the value of $A \rightarrow 41, B \rightarrow 42$.
- 3) Scan 4, 1 and 4, 2 from the barcode on the fold out back page.
- 4) Scan Finish from the barcode on the fold out page.
- 5) Repeat the same procedure in Insert G2 characters setting.
- 6) Scan Exit barcode.
- Insert data group 1-4 position. Please refer to Chapter-Transmission, page 65 and in specific barcode that you want to use.

\$%+PRO Program			
	Option Bar Code	Option	Alphanumeric
			Entry

	None	'PREAMBLE' *
8AC	1-22	00-ffH ASCII
Preamble characters	characters	code
setting		
84D	None	'POSTAMBLE' *
8AD	1-22	00-ffH ASCII
Postamble	characters	code
characters setting		
	None	'GROUP1' *
8AE	1-22	00-ffH ASCII
Insert G1 characters	characters	code
setting		
	None	'GROUP2' *
8AF	1-22	00-ffH ASCII
Insert G2 characters	characters	code
setting		
	None	'GROUP3' *
8AG	1-22	00-ffH ASCII
Insert G3 characters	characters	code
setting		
8AH	None	'GROUP4' *
8AH	1-22	00-ffH ASCII
Insert G4 characters	characters	code
setting		



Exit

UPCA

Read: Format

	Leading	Data Digits	Check
	Zero	(11 Digits)	Digit

Check-sum transmission: By setting Enable, checks sum will be transmitted.

Truncate leading/ending: The leading or ending digits of barcode data characters can be truncated when these values are set to non-zero. It will beep instead of reading anything when the truncate value is more than the barcode data digits or the value of Truncate Leading is overlapped with that of the Ending. The maximum value of truncate digits is 15. **Code ID setting:** Code ID setting is a character used to represent the symbol upon a succeeding reading. A Code ID setting is prefixed to the data begin or end transmitted if the feature is selected. If you want application to transmit Code ID, you must set Code ID transmission to Enable first. Refer to Code ID transmission.

Insertion group selection: The scanner offer one or two insertion group for own symbology. By setting one or two digits to indicate which insertion group you want to insert. You may refer to Character insertion.

Example: Group 2 \rightarrow set 02 or 20.

Group 1 and 4 \rightarrow set 14 or 41.



 Option Bar Code
 Option
 Alphanumeric

 Image: Strain Strain

	Disable	00
NAC	Enable	01 *
Check-sum transmission		
	0-15	00-15
NAF		00 *
Truncate leading		
	0-15	00-15
NAG		00 *
Truncate ending		
	00-ffH ASCII	00-ffH
NAH	code	< A > *
Code ID setting		
	00-44	00-44
NAI		00 *
Insert group selection		

%\$\$ Exit

UPCA

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

Format

	Data Digits (11 Digits)		Supplement Digits 2 or 5 or
2010	(TT Digito)	Digit	UCC / EAN 128

Truncation / Expansion: The leading "0" digits of UPCA data characters can be truncated when enabled.

\$%+PRO

Program

Image: strain of the strain		-	
NAJ None 00 * Supplement digits 2 digits 01 Supplement digits 5 digits 02 2,5 digits 03 04 2,5 digits 04 04 2, UCC/EAN 128 04 04 2, UCC/EAN 128 05 05 5, UCC/EAN 128 06 01 All 07 00 *NAK* Truncate leading 01 * Truncation/ zero 1 Expansion Expand to EAN13 02	Option Bar Code	Option	Alphanumeric
*NAJ*2 digits01Supplement digits5 digits022,5 digits0304UCC/EAN 12804042, UCC/EAN 12805055, UCC/EAN 1280601All0700*NAK*Truncate leading01 *Truncation/zero1ExpansionExpand to EAN1302			Entry
Num2 digits01Supplement digits5 digits022,5 digits03042,5 digits04042, UCC/EAN 12804042, UCC/EAN 12805055, UCC/EAN 1280601All0700*NAK*Truncate leading01 *Truncation/zero1ExpansionExpand to EAN1302		None	00 *
2,5 digits 03 UCC/EAN 128 04 2, UCC/EAN 128 05 5, UCC/EAN 128 06 All 07 *NAK* Truncate leading 01 * Truncation/ zero 02 Expansion Expand to EAN13 02	*NAJ*	2 digits	01
UCC/EAN 128 04 2, UCC/EAN 128 05 5, UCC/EAN 128 06 All 07 Image: NAK* None 00 Truncate leading 01 * Truncation/ zero 2ero Expansion Expand to EAN13 02	Supplement digits	5 digits	02
2, UCC/EAN 128055, UCC/EAN 12806All07None00*NAK*Truncate leading01 *Truncation/zero2ExpansionExpand to EAN1302		2,5 digits	03
5, UCC/EAN 12806All07Image: NAK*None00*NAK*Truncate leading01 *Truncation/zero-ExpansionExpand to EAN1302		UCC/EAN 128	04
All07None00*NAK*Truncate leading01 *Truncation/zero1ExpansionExpand to EAN1302		2, UCC/EAN 128	05
NAK None 00 *NAK* Truncate leading 01 * Truncation/ zero 2 Expansion Expand to EAN13 02		5, UCC/EAN 128	06
NAK Truncate leading 01 * Truncation/ zero Expansion Expand to EAN13 02		All	07
Truncation/ zero Expansion Expand to EAN13		None	00
Expansion Expand to EAN13 02	*NAK*	Truncate leading	01 *
	Truncation/	zero	
	Expansion	Expand to EAN13	02
		33	^{6\$\$*} Exit

Exit

UPCE

Read: Format

Leading	Data Digits (6	Check
Zero	Digits)	Digits

Check-sum verification: The checksum of EAN-13 is optional and made as the sum of the numerical value of the

data digits.

Check-sum transmission: By setting Enable, checks sum will be transmitted.

Truncate leading/ending: Refer to Truncate leading/ending of UPCA.

Code Id setting: Refer to Code ID setting of UPCA.



Option Bar Code Option Alphanumeric Entry Disable 00 Enable 'OAA 01 * Read Disable 00 Enable 01 * OAC Check-sum transmission

	0-15	00-15
OAF		00 *
Truncate leading		
	0-15	00-15
OAG		00 *
Truncate ending		
	00-ffH ASCII	00-ffH
OAH	code	< E > *
Code ID setting		



UPCE

Insertion group selection: Refer to Insertion group selection of UPCA.

Supplement digits:

Format

	Leading Zero	Data Digits (6 Digits)	Спеск	Supplement Digits 2 or 5 or UCC/EAN 128
--	-----------------	---------------------------	-------	---

Expansion: The expansion function is used only for UPCE and EAN-8 code reading. It extends to 13-digits with "0" digits when the feature is enabled. Example: Barcode "0123654"

Output: "0012360000057"

UPCE-1: To enable scanner to read UPCE with leading digit



Program

Option Bar Code	Option	Alphanumeri
		c Entry
	00-44	00-44
OAI		00 *
Insert group selection		
	None	00 *
OAJ	2 digits	01
Supplement digits	5 digits	02
	2,5 digits	03
	UCC/EAN 128	04

	2, UCC/EAN 128	05
	5, UCC/EAN 128	06
	All	07
	None	00 *
OAK	Truncate leading	01
Truncation/Expansion	zero	
	Expand to EAN13	02
	Expand to UPCA	03
	Disable	00 *
OAL	Enable	01
Expansion		
	Disable	00 *
OAM	Enable	01
UPCE-1		



EAN-13

Read: Format

Data Digits (12 Digits) Check Digits

Check-sum verification: The checksum of EAN-13 is optional and made as the sum of the numerical value of the data digits.

Check-sum transmission: By setting Enable, checks sum will be transmitted.

Truncate leading/ending: Refer to Truncate leading/ending of UPCA.

\$%+PRO Program

Option Bar Code	Option	Alphanumeric
		Entry
	Disable	00
GAA	Enable	01 *
Read		
	Disable	00
GAC	Enable	01 *
Check-sum		
transmission		
	0-15	00-15
GAF		00 *
Truncate leading		

GAG	0-15	00-15 00 *
Truncate ending		



EAN-13

Code Id setting: Refer to Code ID setting of UPCA.

Insertion group selection: Refer to Insertion group selection of UPCA.

Supplement digits:

Format

Data Digits (12 Digits)	Check Digits	Supplement Digits 2 or 5 or UCC / EAN 128
----------------------------	-----------------	---

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

Example: Barcode "9789572222720" - Output: "9572222724" Example: Barcode "9771019248004" - Output: "10192484"



Program

Option Bar Code	Option	Alphanumeric
		Entry
	00-ffH ASCII	00-ffH
GAH	code	< F > *
Code ID setting		
	00-44	00-44
GAI		00 *
Insert group		

selection		
	None	00 *
GAJ	2 digits	01
Supplement digits	5 digits	02
	2,5 digits	03
	UCC/EAN 128	04
	2, UCC/EAN 128	05
	5, UCC/EAN 128	06
	All	07
	Disable	00 *
GAL	Enable	01
ISBN/ISSN		
conversion		



EAN-8

Read: Format

Data Digits	Check
(7 Digits)	Digits

Check-sum verification: The checksum of EAN-8 is optional and made as the sum of the numerical value of the data digits.

Check-sum transmission: By setting Enable, checks sum will be transmitted.

Truncate leading/ending: Refer to Truncate leading/ending of UPCA.

Code Id setting: Refer to Code ID setting of UPCA.

Insertion group selection: Refer to Insertion group selection of UPCA.



Program

Option Bar Code	Option	Alphanumeric
		Entry
	Disable	00
FAA	Enable	01 *
Read		
	Disable	00
FAC	Enable	01 *
Check-sum		
transmission		

	0-15	00-15
FAF		00 *
Truncate leading		
	0-15	00-15
FAG		00 *
Truncate ending		
	Two characters	00-ffH, 00-ffH
FAH	00-ffH ASCII	< FF > *
Code ID setting	code	
	00-44	00-44
FAI		00 *
Insert group		
selection		



EAN-8

Supplement digits: Format

Data Digits (7 Digits)	Check Digits	Supplement Digits 2 or 5 or UCC/EAN 128
---------------------------	-----------------	---

Truncation / Expansion: Refer to Truncate Leading zero of UPCE.

Expansion: Refer to Expansion of UPCE.

\$%+PRO Pr

Program

Option Bar Code	Option	Alphanumeric
		Entry
	None	00 *
FAJ	2 digits	01
Supplement digits	5 digits	02
	2,5 digits	03
	UCC/EAN 128	04
	2, UCC/EAN 128	05
	5, UCC/EAN 128	06
	All	07
	Disable	00 *
FAK	Enable	01
Truncation /		
Expansion		

	None	00 *
FAK	Truncate leading	01
Truncation /	zero	
Expansion	Expand to EAN13	02
	Disable	00 *
FAL	Enable	01
Expansion		



Code 39

Read: Format

Start	Data Digits	Checksum	End
"★"	(Variable)	(Optional)	"★"

Check-sum verification: The checksum of Code-39 is optional and made as the sum module 43 of the numerical value of the data digits.

Check-sum transmission: By setting Enable, checksum will be transmitted.

Max./Min. code length: Each symbology has own Max./Min. Code Length. They can be set to qualify data entry. If their Max./Min. Code Length is zero, the Global Min./Max. Code Length is in effect. 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 symbology 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.

Truncate leading/ending: Refer to Truncate leading/ending of UPCA.

Code Id setting: Refer to Code ID setting of UPCA.

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3%+FKO*	Program	
Option Bar Code	Option	Alphanumeric
		Entry
	Disable	00
BAA	Enable	01 *
Read		

	Disable	00 *
BAB	Enable	01
Check-sum		
verification		
	Disable	00 *
BAC	Enable	01
Check-sum		
transmission		
	00-64	00-64
BAD		00 *
Max. code length		
	00-64	00-64
BAE		00 *
Min. code length		
	0-20	00-20
BAF		00 *
Truncate leading		
	0-15	00-15
BAG		00 *
Truncate ending		
	00-ffH ASCII	00-ffH
BAH	code	< * >
Code ID setting		

%\$\$	Exit

Code 39

Insertion group selection: Refer to Insertion group selection of UPCA.

Format: The Full ASCII Code-39 is an enhanced set of Code-39 that is the data with total of 128 characters to represent Full ASCII code. It is combined one of the digits +, %, \$ and/ with one of the alpha digits (A to Z).

Append: This function allows several symbols to be concatenates and be treat as one single data entry. The scanner will not transmit the embedded appending code (space for Code-39). If Enable and other symbols were read again with the appended code, then codes will be transmitted without Code ID, Preamble and Prefix. When a symbol was decoded without the appended code, the data will be transmitted without Code ID and Prefix, but the Postamble Suffix codes are appended. This function is used when the first number of code 39 is a space. Example: □123456.

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

\$%+PRO	P

Program

Option Bar Code	Option	Alphanumeric
		Entry
	00-44	00-44
BAI		00 *
Insert group		
selection		

	Standard	00 *
BAJ	Full ASCII	01
Format		
	Disable	00 *
BAK	Enable	01
Append		
	Disable	00 *
BAM	Enable	01
Start/end		
transmission		



Interleaved 2 of 5

Read: Format

Data Digits	Checksum
(Variable)	(Optional)

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

Check-sum transmission: By setting Enable, checksum will be transmitted.

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

Truncate leading/ending: Refer to Truncate leading/ending of UPCA.

Code Id setting: Refer to Code ID setting of UPCA.

Insertion group selection: Refer to Insertion group selection of UPCA.



Program

Option Bar Code	Option	Alphanumeric
		Entry
	Disable	00
IAA	Enable	01 *
Read		
	Disable	00 *
IAB	Enable	01
Check-sum		
verification		

	Disable	00 *
IAC	Enable	01
Check-sum		
transmission		
	00-64	00-64
IAD		00 *
Max. code leading		
	00-64	00-64
IAE		00 *
Min. code leading		
	0-15	00-15
IAF		00 *
Truncate leading		
	0-15	00-15
IAG		00 *
Truncate ending		
	00-ffH ASCII	00-ffH
IAH	code	< i > *
Code ID setting		
	00-44	00-44
IAI		00 *
Insert group		
selection		



Exit

Industrial 2 of 5

Read: Format

Data Digits	Checksum
(Variable)	(Optional)

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

Truncate leading/ending: Refer to Truncate leading/ending of UPCA.

Code Id setting: Refer to Code ID setting of UPCA.

Insertion group selection: Refer to Insertion group selection of UPCA.



Option Bar Code Option Alphanumeric Entry Disable 00 * Enable 01 *HAA Read 00-64 00-64 *HAD 00 * Max. code length 00-64 00-64 *HAE 00 * Min. code length



	0-15	00-15
HAF		00 *
Truncate leading		
	0-15	00-15
HAG		00 *
Truncate ending		
	00-ffH ASCII	00-ffH
HAH	code	< j > *
Code ID setting		
	00-44	00-44
HAI		00 *
Insert group		
selection		



Matrix 2 of 5 Eur

Read: Format

Data Digits	Checksum
(Variable)	(Optional)

Checksum Verification: The checksum is made as the sum module 10 of the numerical values of all data digits.

Checksum Transmission: By setting Enable, checksum will be transmitted.

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

Truncate leading/ending: Refer to Truncate leading/ending of UPCA.

Code Id setting: Refer to Code ID setting of UPCA. **Insertion group selection:** Refer to Insertion group selection of UPCA.

\$%+PRO	Program

Option Bar Code Option Alphanumeric Entry Disable 00 * Enable 01 *PAA Read Disable 00 * Enable 01 Checksum Verification

	Disable	00 *
PAC	Enable	01
Checksum		
Transmission		
	00-64	00-64
PAD		00 *
Max. code length		
	00-64	00-64
PAE		00 *
Min. code length		
	0-15	00-15
PAF		00 *
Truncate leading		
	0-15	00-15
PAG		00 *
Truncate ending		
	00-ffH ASCII	00-ffH
PAH	code	< B > *
Code ID setting		
	00-44	00- 44
PAI		00 *
Insert group		
selection		



Exit

Codabar

Read: Format

Start Data Digits (Variable)	Checksum (Optional)	End
------------------------------	---------------------	-----

Checksum Verification: The checksum is made as the sum module 16 of the numerical values of all data digits.

Checksum Transmission: By setting Enable, checksum will be transmitted.

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

Truncate leading/ending: Refer to Truncate leading/ending of UPCA.

Code Id setting: Refer to Code ID setting of UPCA.



Program

Option Bar Code	Option	Alphanumeric
		Entry
	Disable	00 *
EAA	Enable	01
Read		
	Disable	00 *
EAB	Enable	01
Checksum		
Verification		

	Disable	00 *
EAC	Enable	01
Checksum		
Transmission		
	00-64	00-64
EAD		00 *
Max. code length		
	00-64	00-64
EAE		00 *
Min. code length		
	0-15	00-15
EAF		00 *
Truncate leading		
	0-15	00-15
EAG		00 *
Truncate ending		
	00-ffH ASCII	00-ffH
EAH	code	< % > *
Code ID setting		





Codabar

Insertion group selection: Refer to Insertion group selection of UPCA.

Start/End type: The 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 Code 39.



Program

Option Bar Code	Option	Alphanumeric
		Entry
	00-44	00-44
EAI		00 *
Insert group		
selection		
	ABCD/ABCD	00 *
EAJ	abcd/abcd	01
Start/End type	ABCD/TN*E	02
	abcd/tn*e	03
	Disable	00 *
EAK	Enable	01
Start/End		
transmission		



Exit

Read: Format

Data Digits	Checksum
(Variable)	(Optional)

Checksum Verification: The checksum is made as the sum module 103 of all data digits.

Checksum Transmission: By setting Enable, checksum will be transmitted.



Program

Option Bar Code	Option	Alphanumeric
		Entry
	Disable	00
DAA	Enable	01 *
Read		
	Disable	00
DAB	Enable	01 *
Checksum		
Verification		
	Disable	00 *
DAC	Enable	01
Checksum		
Transmission		



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

Truncate leading/ending: Refer to Truncate leading/ending of UPCA.

Code Id setting: Refer to Code ID setting of UPCA.

Insertion group selection: Refer to Insertion group selection of UPCA.

Format: The Code-128 can be translated to UCC/EAN-128 format if it starts with FNC1 character. The first FNC1 will be translated to "]C1",and next to be a field separator code as <GS>(1D16).

]C1 Data <gs> Data</gs>	Checksum
-------------------------	----------

\$%+PRO P

Program

Option Bar Code	Option	Alphanumeric
		Entry
	00-64	00-64
DAD		00 *
Max. code length		
	00-64	00-64
DAE		00 *
Min. code length		

	0-15	00-15
DAF		00 *
Truncate leading		
	0-15	00-15
DAG		00 *
Truncate ending		
	00-ffH ASCII	00-ffH
DAH	code	< # > *
Code ID setting		
	00-44	00-44
DAI		00 *
Insert group		
selection		
	Standard	00 *
DAJ	UCC/EAN-128	01
Format		



Append: When the function is enabled, it won't show the data immediately if scanner read the barcode includes FNC2 code. It will show all data until it read the barcode, which doesn't have FNC2 code.

UCC/ EAN 128 ID setting: To setting the code ID for UCC/EAN-128 output format.

Field separator code: This feature is only used for UCC/EAN-128 format. This Field separator code means you can reassign second or after a FNC1 for your usage. The default of ASCII code is <GS>(1D16).



Program

Option Bar Code	Option	Alphanumeric
		Entry
	Disable	00 *
DAK	Enable	01
Append		
	00-ffH ASCII	00-ffH
DAL	code	< # > *
UCC/EAN-128		
ID setting		
	00-ffH ASCII	00-ffH
DAM	code	1DH *
Field separator code		



Exit

Read: Format

Data Digits	Checksum1	Checksum2
(Variable)	(Optional)	(Optional)

Checksum Verification: The checksum is made as the sum module 47 of the numerical values of all data digits. **Checksum Transmission:** By setting Enable, checksum

will be transmitted.



Program

Option Bar Code	Option	Alphanumeric
		Entry
	Disable	00 *
CAA	Enable	01
Read		
	Disable	00
CAB	Enable	01 *
Checksum	(two digits)	
Verification		
	Disable	00 *
CAC	Enable	01
Checksum		
Transmission		



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

Truncate leading/ending: Refer to Truncate leading/ending of UPCA.

Code Id setting: Refer to Code ID setting of UPCA.

Insertion group selection: Refer to Insertion group selection of UPCA.



Program

Option Bar Code	Option	Alphanumeric
		Entry
	00-64	00-64
CAD		00 *
Max. code length		
	00-64	00-64
CAE		00 *
Min. code length		
	0-15	00-15
CAF		00 *
Truncate leading		
	0-15	00-15
CAG		00 *
Truncate ending		

	00-ffH ASCII	00-ffH
CAH	code	< & > *
Code ID setting		
	00-44	00-44
CAI		00 *
Insert group		
selection		



Read: Format

Data Digits	Checksum1	Checksum2
(Variable)	(Optional)	(Optional)

Checksum Verification: The checksum is presented as the sum module 11 of all data digits.

Checksum Transmission: By setting Enable, checksum1 and checksum2 will be transmitted upon your selected checksum verification method.

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

Truncate leading/ending: Refer to Truncate leading/ending of UPCA.

Code Id setting: Refer to Code ID setting of UPCA.

Insertion group selection: Refer to Insertion group selection of UPCA.

Selection of OFCA.



Program

Option Bar Code	Option	Alphanumeric
		Entry
	Disable	00 *
AAA	Enable	01
Read		
AAB	Disable	00
	One digit	01 *
Checksum	Two digits	02
Verification		

	Disable	00 *
AAC	Enable	01
Checksum		
Transmission		
	00-64	00-64
AAD		00 *
Max. code length		
	00-64	00-64
AAE		00 *
Min. code length		
	0-15	00-15
AAF		00 *
Truncate leading		
	0-15	00-15
AAG		00 *
Truncate ending		
	00-ffH ASCII	00-ffH
AAH	code	< 0 > *
Code ID setting		
	00-44	00-44
AAI		00 *
Insert group		
selection		



Exit

MSI/plessey

Read: Format

Data Digits	Checksum1	Checksum2
(Variable)	(Optional)	(Optional)

Checksum Verification: The MSI/Plessey has one or two optional checksum digits. The checksum is presented 3 kinds of method Mod10, Mod10/10 and Mod 11/10. The checksum1 and checksum2 will be calculated as the sum module 10 or 11 of the data digits.

Checksum Transmission: By setting Enable, checksum1 and checksum2 will be transmitted upon your selected checksum verification method.

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

Truncate leading/ending: Refer to Truncate leading/ending of UPCA.

Code Id setting: Refer to Code ID setting of UPCA. **Insertion group selection:** Refer to Insertion group selection of UPCA.



Program

Option Bar Code	Option	Alphanumeric
		Entry
	Disable	00 *
KAA	Enable	01
Read		
KAB	Disable	00
	Mod 10	01 *
Checksum	Mod 10/10	02
Verification	Mod 11/10	03

	Disable	00 *
KAC	Enable	01
Checksum		
Transmission		
	00-64	00-64
KAD		00 *
Max. code length		
	00-64	00-64
KAE		00 *
Min. code length		
	0-15	00-15
KAF		00 *
Truncate leading		
	0-15	00-15
KAG		00 *
Truncate ending		
	00-ffH ASCII	00-ffH
KAH	code	< @ > *
Code ID setting		
	00-44	00-44
KAI		00 *
Insert group		
selection		



Exit

UK/plessey

Read: Format

Data Digits	Checksum1+2
(Variable)	(Optional)

Checksum Verification: The UK/Plessey has one or two optional checksum digits. The checksum1 and checksum2 will be calculated as the sum module 10 or 11 of the data digits.

Checksum Transmission: By setting Enable, checksum will be transmitted.

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

Truncate leading/ending: Refer to Truncate leading/ending of UPCA.

Code Id setting: Refer to Code ID setting of UPCA.

Insertion group selection: Refer to Insertion group selection of UPCA.



Program

Option Bar Code	Option	Alphanumeric
		Entry
	Disable	00 *
LAA	Enable	01
Read		
LAB	Disable	00
	Enable	01 *
Checksum		
Verification		

	Disable	00 *
LAC	Enable	01
Checksum		
Transmission		
	00-64	00-64
LAD		00 *
Max. code length		
	00-64	00-64
LAE		00 *
Min. code length		
	0-15	00-15
LAF		00 *
Truncate leading		
	0-15	00-15
LAG		00 *
Truncate ending		
	00-ffH ASCII	00-ffH
LAH	code	< @ > *
Code ID setting		
	00-44	00-44
LAI		00 *
Insert group		
selection		



Exit

Telepen

Read: IATA (International Air Transport Association).

Checksum Verification: The checksum is presented as the sum module 10 or 11 of the data digits.

Checksum Transmission: By setting Enable, checksum will be transmitted.

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

Truncate leading/ending: Refer to Truncate leading/ending of UPCA.

Code Id setting: Refer to Code ID setting of UPCA. **Insertion group selection:** Refer to Insertion group selection of UPCA.



Program

Ontion Par Code	Ontion	Alphonumorio
Option Bar Code	Option	Alphanumeric
		Entry
	Disable	00 *
MAA	Enable	01
Read		
MAB	Disable	00 *
	Enable	01
Checksum		
Verification		
	Disable	00 *
MAC	Enable	01
Checksum		
Transmission		

	00-64	00-64
MAD		00 *
Max. code length		
	00-64	00-64
MAE		00 *
Min. code length		
	0-15	00-15
MAF		00 *
Truncate leading		
	0-15	00-15
MAG		00 *
Truncate ending		
	00-ffH ASCII	00-ffH
MAH	code	< S > *
Code ID setting		
	00-44	00-44
MAI		00 *
Insert group		
selection		
	Numeric only	00 *
MAJ	Full ASCII only	01
Format		



Standard 2 of 5

Read: Format

Data Digits	Checksum1
(Variable)	(Optional)

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

Check-sum transmission: By setting Enable, checksum will be transmitted.

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

Truncate leading/ending: Refer to Truncate leading/ending of UPCA.

Code Id setting: Refer to Code ID setting of UPCA.

Insertion group selection: Refer to Insertion group selection of UPCA.



Program

Option Bar Code	Option	Alphanumeric
		Entry
	Disable	00 *
JAA	Enable	01
Read		
JAB	Disable	00 *
	Enable	01
Check-sum		
verification		

	Disable	00 *
JAC	Enable	01
Check-sum		
transmission		
	00-64	00-64
JAD		00 *
Max. code length		
	00-64	00-64
JAE		00 *
Min. code length		
	0-15	00-15
JAF		00 *
Truncate leading		
	0-15	00-15
JAG		00 *
Truncate ending		
	00-ffH ASCII	00-ffH
JAH	code	< j > *
Code ID setting		
	00-44	00-44
JAI		00 *
Insert group		
selection		



Exit

RSS-14

Read: Format

Data Digits	Checksum1	
(Variable)	(Optional)	

Truncate leading/ending: Refer to Truncate leading/ending of UPCA.

Code Id setting: Refer to Code ID setting of UPCA. **Insertion group selection:** Refer to Insertion group

selection of UPCA.

UCC/EAN 128 emulation: Refer to Transmission, Code ID transmission must be set as AIM ID enable. Then JC1 will be identified as prefix of barcode data transmission.

\$%+PRO Program

		r
Option Bar Code	Option	Alphanumeric
		Entry
	Disable	00 *
TAA	Enable	01
Read		
	0-15	00-15
TAF		00 *
Truncate leading		
	0-15	00-15
TAG		00 *
Truncate ending		
	00-ffH ASCII	00-ffH
TAH	code	< R4 > *

Code ID setting		
	00-44	00-44
TAI		00 *
Insert group		
selection		
	Disable	00 *
TAK	Enable	01
UCC/EAN128		
emulation		
	TAI Insert group selection *TAK* UCC/EAN128	Insert group 00-44 selection Disable *TAK* Disable UCC/EAN128 Enable



RSS-Limited

Read: Format

Data Digits	Checksum1	
(Variable)	(Optional)	

Truncate leading/ending: Refer to Truncate leading/ending of UPCA.

Code Id setting: Refer to Code ID setting of UPCA.

Insertion group selection: Refer to Insertion group selection of UPCA.

UCC/EAN 128 emulation: Refer to UCC/EAN 128 emulation of RSS-14.



Option Bar Code Alphanumeric Option Entry Disable 00 * Enable 01 ⊧UAA Read 0-15 00-15 00 * Truncate leading 0-15 00-15 00 * Truncate ending

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	00-ffH ASCII	00-ffH
UAH	code	< RL > *
Code ID setting		
	00-44	00-44
UAI		00 *
Insert group		
selection		
	Disable	00 *
UAK	Enable	01
UCC/EAN128		
emulation		



RSS-Expanded

Read: Format

Data Digits	Checksum1
(Variable)	(Optional)

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

Truncate leading/ending: Refer to Truncate leading/ending of UPCA.

Code Id setting: Refer to Code ID setting of UPCA.

Insertion group selection: Refer to Insertion group selection of UPCA.

UCC/EAN 128 emulation: Refer to UCC/EAN 128 emulation of RSS-14.



Program

Option Bar Code	Option	Alphanumeric
		Entry
	Disable	00 *
VAA	Enable	01
Read		
	00-99	00-99
VAD		99 *
Max. code length		

	00-99	00-99
VAE		01 *
Min. code length		
	0-15	00-15
VAF		00 *
Truncate leading		
	0-15	00-15
VAG		00 *
Truncate ending		
	00-ffH ASCII	00-ffH
VAH	code	< RX > *
Code ID setting		
	00-44	00-44
VAI		00 *
Insert group		
selection		
	Disable	00 *
VAK	Enable	01
UCC/EAN128		
emulation		



Exit

China Post

Read: Format

Data Digits	Checksum1
(Variable)	(Optional)

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

Truncate leading/ending: Refer to Truncate leading/ending of UPCA.

Code Id setting: Refer to Code ID setting of UPCA.

Insertion group selection: Refer to Insertion group selection of UPCA.



Program

	9.411	
Option Bar Code	Option	Alphanumeric
		Entry
	Disable	00 *
SAA	Enable	01
Read		
	00-64	00-64
SAD		11 *
Max. code length		
	00-64	00-64
SAE		11 *
Min. code length		

	0-15	00-15
SAF		00 *
Truncate leading		
	0-15	00-15
SAG		00 *
Truncate ending		
	00-ffH ASCII	00-ffH
SAH	code	< t > *
Code ID setting		
	00-44	01-44
SAI		00 *
Insert group		
selection		



Italian Pharmacode

Read: Format

Data Digits	Checksum1
(Variable)	(Optional)

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

Truncate leading/ending: Refer to Truncate leading/ending of UPCA.

Code Id setting: Refer to Code ID setting of UPCA.

Insertion group selection: Refer to Insertion group selection of UPCA.

Leading "A": If this function is enabled, each prefix of data shall be A.



Program

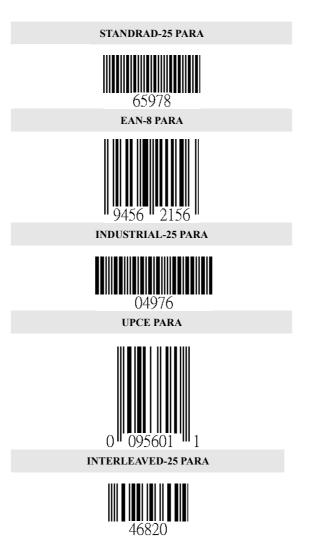
Option Bar Code	Option	Alphanumeric
		Entry
	Disable	00 *
WAA	Enable	01
Read		
	00-64	00-64
WAD		12 *
Max. code length		

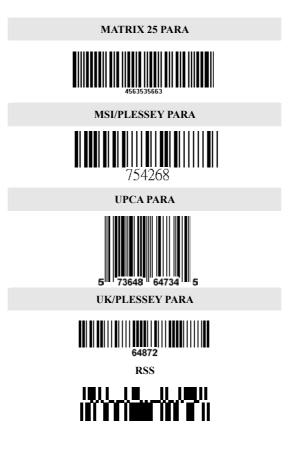
	00-64	00-64		
WAE		09 *		
Min. code length				
	0-15	00-15		
WAF		00 *		
Truncate leading				
	0-15	00-15		
WAG		00 *		
Truncate ending				
	00-ffH ASCII	01-ffH		
WAH	code	*		
Code ID setting				
	00-44	00-44		
WAI		00 *		
Insert group				
selection				
	Disable	00 *		
WAJ	Enable	01		
Leading "A"				



Exit







ASCII Co	de Tab	ole	Note:		For	keyboa	nd wedg	ge c	only.	
L #	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	PgDr	ı		F6		ACK		SYN		
7			F7			BEL		ETB		
8	Bs			F8		BS		CAN		
9	Tab			F9		HT	г		EM	
А			F10			LF		SUB		
В	Home		Esc			VT		ESC		
С	End		F11			FF		FS		
D	Enter		F12			CR		GS		
E	Inser	t	Ctrl+			SO		RS		
F	Delete	Э	Alt+			SI		US		
L L	2		3	4		5			7	
0	SP		0	@		Ρ	``		р	
1	!		1	А		Q	а		q	
2	"		2	В		R	b		r	
3	#		3	С		S	с		s	
4	\$		4	D		Т	d		t	
5	%		5	E		U	е		u	
6	&		6	F		V	f		v	
7	í		7	G		W	g		w	
8	(8	н		Х	h		x	
9)		9	I		Y	i		у	
А	*		:	J		Ζ	j		z	
В	+		;	к		[k		{	
С	5		<	L		١	I			
D	-		=	М]	m		}	
		1		Ν		^	n		~	
E			>		_			_		

Parameter Setting List



Program



Barcode standard parameter setting list

If you wish to display the current configuration of your AS-8000 scanner over the host terminal/computer, scan the Barcode standard parameter setting list bar code.



Unique parameter list

If you wish to display the unique parameter setting list, scan the unique parameter list bar code



System parameter setting list

If you wish to display the product information and revision number for your AS-8000 scanner over the host terminal/computer, scan the System parameter setting list bar code.



String setting list If you wish to display the string format list, scan the String setting list bar code.



Firmware version list

If you wish to display the firmware version, scan the Firmware version list.



WARNING: Default value initialization

If you wish to return the AS-8000 scanner to all the factory default settings, scan the Default value initialization bar code.

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Exit

/0 **0** */1* 1 */2* **2** */3* 3 */4* 4 */5* 5 */6* 6 */7* **7** */8* 8 *%%* Finish */9* 9

/A **A** */B* **B** */C* C */D* **D** */E* E */F* **F**