User's Manual



LGZ 7225 Long Range Handheld CCD Scanner

25-ULGZMU01-01

Keyboard Wedge Interface USB Interface RS232 Interface



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General Information

The LGZ 7225 CCD Scanner utilizes state-of-the art imaging technology similar to that found in digital cameras, fax machines and video camcorders. The captures an "image" of the bar code and converts it into digital signals that the host computer understands.

The scanner automatically recognizes most common bar code symbologies.

The scanner, which utilizes miniature, surface-mounted electronics, has no moving parts and will provide years of trouble-free operation.

The LGZ 7225 is available in several different interface configurations.

- Keyboard Wedge (PS2 or AT/XT)
- RS 232
- USB

Unpacking

Remove the scanner from its packaging and inspect it for damage. Save the carton and packing material. If the scanner was damaged in transit, call the dealer or distributor from whom you purchased it. If you purchased it directly from Opticon, call Opticon Customer Service Dept. at 800-636-0090.

Opticon Customer Service and Support

If you have any questions or need assistance with installing or programming your scanner call Opticon Customer Service Department at (800) 636-0090.

Before you call, record the model number of the scanner. This information is located on the bottom side of the scanner. Also please have the scanner available plus some bar codes to scan.

LGZ7225 Long Ra	nge Handheld CCD Spec
EGETZES EGIIŞ Ku	160 g (cable not included)
Cable - K/B Wedge	Straight 2.0 m
Cable - universal type	Straight 2.3 m
Connector type	RJ-45 phone jack connector
Case material	ABS plastic
Cushion material	Rubber
Electrical	
Input Voltage	$5 \text{ VDC} \pm 0.25 \text{V}$
Power - Operating	1275 mW
Power - Standby	600 mW
Current - Operating	255 mA @ 5VDC
Current - Standby	120 mA @ 5VDC
DC Transformers	Class 2; 5VDC @ 450 mA
Agency listing	UL, FCC Class A
Environmental	
Operating Temperature	0° to 45°C (32°F to 113°F)
	-40°C to 60°C
Storage	(-40°F to 140°F)
	5% to 90% relative humidity,
Humidity	non-condensing
Light Level	Up to 60000 Lux
Shock	1.5m drop onto concrete
	Seals to resist airborne particulate
Contaminants	contaminants
Ventilation	None required

Default Setting for each barcode shown as below:

Code Type	Read	Checksum Verifacation	Checksum Transmission	Code ID
UPC-A	X	X	X	A
UPC-E	X	X	X	Е
EAN-13	X	X	X	F
EAN-8	X	X	X	FF
Code-39	X			*
Interleaved 2of5	X	X		i
Industrial 2of5				i
Matrix 2of5				В
Standard 2of5				i
China Post				t
Codabar				%
Code-128	X	X		#
Code-93				&
Code-11				О
MSI/Plessey				<u>@</u>
UK/Plessey				<u>@</u>
Telepen				S
Italian Pharmaode.				р

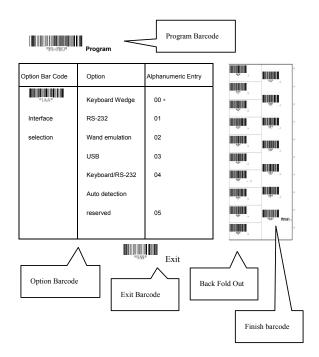
Programming		
Programming	Manual (Reading special barcode) DOS command through RS-232, Windows	
method	configuration program	
Program upgrade	Enabled by built-in flash memory	
Programmable	Code type selection, check digit	
characteristics	selection Decoding option Decoding	
	option Transmitted character 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 LGZ7225

To program the LGZ7225 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).
- 3. 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.
- Once you have finished programming. Scan the Exit barcode, listed on the lower right hand corner of each parameter setting part.



Interface Selection

This decoder built-in scanner comes in one model and supports interfaces such as keyboard wedge, RS232 serial wedge, wand emulation, and the latest USB interface. In most of the cases, simply sutilizing the an appropriate cable with a device code will work for a specific interface.

Interface selection: You can change factory interface default for other type interface. By plugging different cables, setting correct interface, then the scanner will be changed to another interface. However, you must make sure which cable you need.

Keyboard/RS232/UBS Auto detection: By setting this function, it will automatically select the Keyboard wedge or RS-232 or UBS interface for user.



Progra

Option Bar Code	Option	Alphanumeric
		Entry
	Keyboard Wedge	00
1AA	RS-232	01
Interface selection	Wand emulation	02
	USB	03
	Keyboard	
	/RS232/USB	04 *
	Auto detection	
	Reserved	05

Note: * -Default



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: Select keyboard type connector of your host computer. Scanner must be selected to the appropriate host interface cable converter.



Program

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



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

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, page 94.

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

	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
	0-8	00-08
2AC	0 : high clock rate	01 *
Keyboard speed	8 : low clock rate	
	Disable	00
2AD	Enable	01 *
Function key		
	Alphabetic key	00 *
2AE	Numeric keypad	01
Numeric key	(Num lock state	
	only)	
	Alt+Keypad	02



Exit

Keyboard wedge

Caps Lock: By selecting Caps Lock or No Caps Lock, 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.



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 Code1316)

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.



Program

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
3AE	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		



Wand Emulation

Bar/space polarity:

High/low- Black will be transmitted as a high voltage level (+5) and space as low level (0V).

Low/high- Black will be transmitted as a low voltage level (0V) and space as high level (+5).

Initial polarity: You must make sure what is Initial polarity of your wand decode device in stand-by (idle). So, initial signal state as a High voltage level (+5) or Low voltage level (0V).



Program

Option Bar Code	Option	Alphanumeric
		Entry
	High/low	00 *
4AA	Low/high	01
Bar/space polarity		
	Low	00 *
4AB	High	01
Initial polarity		



Wand Emulation

Output speed: This setting is same as serial transmission baud rate, and it must be approbated your wand decode resolution. The unit of speed is a width of minimum narrow bar.

Margin delay: It is a timer of zone like space zone of barcode label margin. The width of margin time will be added before and after in each barcode data automatically when it is transmitted.

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



Program

Option Bar Code	Option	Alphanumeric
		Entry
	620 pps	00
4AC	1250 pps	01
Output speed	2500 pps	02
	5000 pps	03 *
	10000 pps	04
	20000 pps	05
	*pps: pixel per	
	second	

4AD		00 *
Reserved		
4AE		00 *
Reserved		
	00-99 (10 pixel)	00-99
4AF		15 *
Margin delay		
	00-99 (10 msec)	00-99
4AG		30 *
Transmit delay		



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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 Stand-by duration 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 Stand-by duration elapsed.

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

Same Barcode delay time: 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.



Program

Option Bar Code	Option	Alphanumeric
		Entry
	Good-read off	00
7AA	Momentary	01 *
Scanning mode	Alternate	02
	Timeout off	03
	Continue	04
	01-99 (second)	00-99
7AB		10 *
Stand-by duration		
	01-99 (10 msec)	01-99
7AC		50 *
Same barcode delay		
time		
	00-99	00-09
7AD	(00: no double	00 *
Double confirm	confirm)	



Scan

Multi field scan: The scanner can be read many sets of barcode data on the same scanning line at the same time, even if they are different kinds of barcode symbology.

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

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(except AS-8110).



Program

Option Bar Code	Option	Alphanumeric
		Entry

	Disable	00 *
7AE	Enable	01
Multi field scan		
	00-63	00-63
7AF		04 *
Global min. code length		
	00-63	04-63
7AG		63 *
Global max.code length		
	Disable	00 *
7AH	Enable	01
Inverted image scan		
	Disable	00 *
7AI	Enable	01
CTS trigger		
	Disable	00 *
7AK	30 second	01
Position indication	60 second	02
	90 second	03
	120 second	04
	150 second	05
	180 second	06
	Continue	07



Exit

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.

Buzzer 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.



Program

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 *
Buzzer indication		
	00-07	00-07
5AD		07 *
Beep loudness		
	00-99 (100Hz)	00-99
5AE		26 *
Beep tone freq.		
	00-99 (10 msec)	00-99
5AF		10 *
Beep tone duration		



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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.



Program

Option Bar Code	Option	Alphanumeric
		Entry
	Disable	00
NAA	Enable	01 *
Read		

	Disable	00
NAB	Enable	01 *
Check-sum verification		
	Disable	00
NAC	Enable	01 *
Check-sum transmission		
	00-64	00-64
NAD		64 *
Max.code length		
	00-64	00-64
NAE		01 *
Min.code length		
	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

Leading Data Digits Check Zero (11 Digits) Digit	oplement Digits 2 or 5 or CC / EAN 128
--	--

Truncate Leading zero: The leading "0" digits of UPCA data characters can be truncated when the function is enabled.



Program

Option Bar Code	Option	Alphanumeric
		Entry
	None	00 *
NAJ	2 digits	01
Supplement digits	5 digits	02
	UCC/EAN 128	03
	Auto detection	04
	Disable	00
NAK	Enable	01 *
Truncate Leading zero		



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.

 $\begin{tabular}{ll} \textbf{Check-sum transmission:} By setting \hline \hline \textbf{Enable}, checks sum \\ will be transmitted. \\ \end{tabular}$



Program

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



UPCE

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.

Supplement digits:

Format

Leading Zero	Data Digits (6 Digits)	Check Digit	Supplement Digits 2 or 5 or
	` ,		UCC/EAN 128

Truncate Leading zero: Refer to Truncate Leading zero of UPCA.

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"



Program

Option Bar Code	Option	Alphanumeric
		Entry
	0-15	00-15
OAF		00 *
Truncate leading		

	0-15	00-15
OAG		00 *
Truncate ending		
	00-ffH ASCII	00-ffH
OAH	code	<e>*</e>
Code ID setting		
	00-44	00-44
OAI		00 *
Insert group		
selection		
	None	00 *
OAJ	2 digits	01
Supplement digits	5 digits	02
	UCC/EAN 128	03
	Auto detection	04
	Disable	00 *
OAK	Enable	01
Truncate Leading		
zero		
	Disable	00 *
OAL	Enable	01
Expansion		



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.

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 symboblogy 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.



Program

Option Bar Code	Option	Alphanumeric
		Entry
	Disable	00
GAA	Enable	01 *
Read		

GAB	Disable	00
	Enable	01 *
Check-sum		
verification		
GAC	Disable	00
	Enable	01 *
Check-sum		
transmission		
GAD	00-64	00-64
		64 *
Max.code length		
GAE	00-64	00-64
		01 *
Min.code length		
GAF	0-15	00-15
		00 *
Truncate leading		
	0-15	00-15
GAG		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
		UCC / EAN 120

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" symbobolgy.

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>*</f>
Code ID setting		
	00-44	00-44
GAI		00 *
Insert group		
selection		
	None	00 *
GAJ	2 digits	01
Supplement digits	5 digits	02
	UCC/EAN 128	03
	Auto detection	04
	Disable	00 *
GAL	Enable	01
ISBN/ISSN		
conversion		



Exit

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.

Max./Min. code length: Refer to Max./Min. code length of EAN-13.

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.

5%+PRO* Program

Option Bar Code	Option	Alphanumeric
		Entry
	Disable	00
FAA	Enable	01 *
Read		
	Disable	00
FAB	Enable	01 *
Check-sum		
verification		

	Disable	00
FAC	Enable	01 *
Check-sum		
transmission		
	00-64	00-64
FAD		64 *
Max.code length		
	00-64	00-64
FAE		01 *
Min.code length		
	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		



Exit

EAN-8

Supplement digits: Format

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

Truncate Leading zero: Refer to Truncate Leading zero of

Expansion: Refer to Expansion of UPCE.



Program

Option Bar Code	Option	Alphanumeric
		Entry
	None	00 *
FAJ	2 digits	01
Supplement digits	5 digits	02
	UCC/EAN 128	03
	Auto detection	04
	Disable	00 *
FAK	Enable	01
Truncate Leading		
zero		
	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.

 $\begin{tabular}{ll} \textbf{Check-sum transmission:} By setting \hline \textbf{Enable}, checksum and will be transmitted. \\ \end{tabular}$



%+PKO* Progr

***************************************	i rogram	
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		



Code 39

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 symboblogy 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.

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).



Program

Option Bar Code	Option	Alphanumeric
		Entry

	00-64	00-64
BAD		00 *
Max. code length		
	00-64	00-64
BAE		00 *
Min. code length		
	0-15	00-15
BAF		00 *
Truncate leading		
	0-15	00-15
BAG		00 *
Truncate ending		
	00-ffH ASCII	00-ffH
BAH	code	< * >
Code ID setting		
	00-44	00-44
BAI		00 *
Insert group		
selection		
	Standard	00 *
BAJ	Full ASCII	01
Format		



Code 39

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 "★".



Program

Option Bar Code	Option	Alphanumeric
		Entry
	Disable	00 *
BAK	Enable	01
Append		
	Disable	00 *
BAM	Enable	01
Start/end		
transmission		



Exit

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.

 $\begin{tabular}{ll} \textbf{Check-sum transmission:} By setting \hline \textbf{Enable}, checksum and will be transmitted. \\ \end{tabular}$



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		



Interleaved 2 of 5

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
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 ID setting	code	< i > *
	00-44	00-44
IAI		00 *
Insert group		
selection		



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.



Program

Option Bar Code	Option	Alphanumeric
		Entry
	Disable	00 *
HAA	Enable	01
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	< i > *
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 and will be transmitted.

 $\textbf{Max./Min. code length:} \ \mathsf{Refer to \ Max./Min. \ code \ length \ of}$

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 *
PAA	Enable	01
Read		
	Disable	00 *
PAB	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	*
Code ID setting		
	00-44	00- 44
PAI		00 *
Insert group		
selection		



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 and 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 * (8150/8210)
EAA	Enable	01 * (8110)
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



S%+PRO* Prog

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		



Read: Format

Data Digits	Checksum
(Variable)	(Optional)

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

 $\textbf{Checksum Transmission:} \ \, \textbf{By setting Enable}, \ \, \textbf{checksum}$



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 Datas <GS> Datas Checksum

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.

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
	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		
DAG	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		
	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		



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

and will be transmitted.

 $\textbf{Max./Min. code length:} \ \mathsf{Refer to \ Max./Min. \ code \ length \ of}$

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 *
CAA	Enable	01
Read		
	Disable	00
CAB	Enable (two	01 *
Checksum	digits)	
Verification		

	Disable	00 *
CAC	Enable	01
Checksum		
Transmission		
	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		



Exit

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.

Option Bar Code	Option	Alphanumeric
		Entry
	Disable	00 *
AAA	Enable	01
Read		
	Disable	00
AAB	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		



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.

5%+PRO* Program

Option Bar Code	Option	Alphanumeric
		Entry
	Disable	00 *
KAA	Enable	01
Read		
	Disable	00 * (8110)
KAB	Mod 10	01 * (8150/8210)
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.



RO* Program

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

Option Bar Code	Option	Alphanumeric
		Entry
	Disable	00 *
MAA	Enable	01
Read		
	Disable	00 *
MAB	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)

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		
	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	< i > *
Code ID setting		
	00-44	00-44
JAI		00 *
Insert group		
selection		



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

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.



+PRO* Pro

Option Bar Code	Option	Alphanumeric
		Entry
	Disable	00 *
WAA	Enable	01
Read		
	00-64	00-64
WAD		10 *
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"		



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.

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

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 \$→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.



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		

	None	00 *
8AC	1-22 characters	00-ffH ASCII
Preamble characters		code
setting		
	None	00 *
8AD	1-22 characters	00-ffH ASCII
Postamble		code
characters setting		
	None	00 *
8AE	1-22 characters	00-ffH ASCII
Insert G1 characters		code
setting		
	None	00 *
8AF	1-22 characters	00-ffH ASCII
Insert G2 characters		code
setting		
	None	00 *
8AG	1-22 characters	00-ffH ASCII
Insert G3 characters		code
setting		
	None	00 *
8AH	1-22 characters	00-ffH ASCII
Insert G4 characters		code
setting		



String setting

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

- 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	00 *
8AE	1-22 characters	00-ffH ASCII
Insert G1 characters		code
setting		
	None	00 *
8AF	1-22 characters	00-ffH ASCII
Insert G2 characters		code
setting		

	None	00 *
8AG	1-22 characters	00-ffH ASCII
Insert G3 characters		code
setting		
	None	00 *
8AH	1-22 characters	00-ffH ASCII
Insert G4 characters		code
setting		



Exit

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.



%+PRO* Program

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

	00-64	00-64
6AC	(00: no insertion)	00 *
Insert data group 1		
position		
	00-64	00-64
6AD	(00: no insertion)	00 *
Insert data group 2		
position		
	00-64	00-64
6AE	(00: no insertion)	00 *
Insert data group 3		
position		
	00-64	00-64
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.



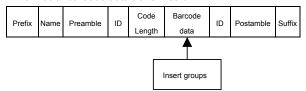
Program

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:



Test Chart





CODE-11 PARA



654215



CODE-39 PARA



741258



7 534539 789813



STANDRAD-25 PARA













MATRIX 25 PARA



MSI/PLESSEY PARA



UPCA PARA



UK/PLESSEY PARA



ASCII Co	de Tab	ole .	Note:	F A	or keyboa	ard wedg	e only.
	0			1	0		1
0	Null				NU	L	DLE
1	Up			F1	so	Н	DC1
2	Down	1		F2	ST	Х	DC2
3	Left			F3	ET	Х	DC3
4	Right			F4	EO	Т	DC4
5	PgUp)		F5	EN	Q	NAK
6	PgDn	ı		F6	AC	K	SYN
7				F7	BE	L	ETB
8	Bs			F8	В5	3	CAN
9	Tab			F9	HT	Г	EM
Α				F10	LF	:	SUB
В	Home	•		Esc	VI	Г	ESC
С	End			F11	FF	:	FS
D	Enter			F12	CF	₹	GS
E	Insert	t		Ctrl+	sc)	RS
F	Delete	9		Alt+	SI		US
r_#	2	;	3	4	5	6	7
0	2 SP		3	4 @	5 P	6	7 p
_		(
0	SP		0	@	Р		р
0	SP !		0	@ A	P Q	a	p q
0 1 2	SP !	2	0 1 2	@ A B	P Q R	a b	p q r
0 1 2 3	SP ! " #	2	0 1 2 3	@ A B C	P Q R S	a b c	p q r s
0 1 2 3 4	SP ! " # \$	() 2 3 4	0 1 2 3 4	@ A B C D	P Q R S T	a b c d	p q r s t
0 1 2 3 4 5	\$P ! " # \$ %	() 2 3 4 4	0 1 2 3 4	@ A B C D E	P Q R S T U	a b c d e	p q r s t u
0 1 2 3 4 5	\$P ! " # \$ % &	4	0 1 2 3 4 5 6	@ A B C D E F	P Q R S T U V	a b c d e f	p q r s t u v
0 1 2 3 4 5 6 7	\$P ! " # \$ % & . '	4 4 5 6 6 8	0 1 2 3 4 5 6	@ A B C D E F G	P Q R S T U V W	a b c d e f	p q r s t u v w
0 1 2 3 4 5 6 7	SP ! " # \$ % & ((0 1 2 3 4 5 6 7	@ A B C D E F G H	P Q R S T U V W X	a b c d e f	p q r s t u v w x
0 1 2 3 4 5 6 7 8	\$P ! " # \$ % &	(0 1 2 3 4 5 6 7 8	@ A B C D E F G H I	P Q R S T U V W X Y	a b c d e f g h i	p q q r s t u v w x x y
0 1 2 3 4 5 6 7 8 9	\$P ! " # \$ % &	((0 1 1 2 2 3 3 4 4 5 5 6 6 7 7 8 8 9 9 9	@ A B C C D E F G H I J	P Q R S T U V W X Y Z	a b c d e f g h i	p q q r s s t u v v w x x y z
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Parameter Setting List



Program



Barcode standard parameter setting list

If you wish to display the current configuration of your LGZ7225, 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 LGZ7225 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.

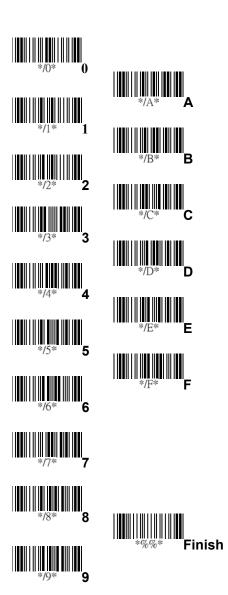


WARNING: Default value initialization

If you wish to return theLGZ 7225 to all the factory default settings, scan the Default value initialization bar code.



Exit



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