

Programming Manual

International Edition, Rev. D4





Revision History

| Rev. No. | Released Date | Description | |
|------------|---------------|--|--|
| Rev.B Beta | Apr. 16, 2009 | First Release | |
| Rev.B | May 05, 2009 | Page 22 Code 128/EAN-128 Setting – Modify ISBT Concatenation Off option code to "4" and ISBT Concatenation On option code to "5". Page 25 GS1 Databar Setting – All GS1 databar default values are changed to Enable. Page 46 Add "Symbology ID Table". | |
| Rev.B1 | June 22, 2009 | Page 34 Add "Presentation Scanning Mode". Page 37 Add "Time Delay to Low Power Mode". | |
| Rev.B2 | Aug. 21, 2009 | Page 9, 11 Add "PDF417/Micro PDF417", "Codablock F", "Korea Post Code". Page 26 Add "Composite Code Setting", "PDF/Micro PDF417 Setting", "Codablock F Setting", Korea Post Code Setting". Page 39 Add "SmartStand Power Off Timeout". Page 46 Add "PDF417/Micro PDF417", "Codablock F", "Korea Post Code" into Condensed DataWizard Table. Page 48 Add "PDF417/Micro PDF417", "Codablock F", "Composite Code", "Korea Post Code" IDs into Symbology ID Table. | |
| Rev.B3 | Oct. 16, 2009 | Page 8 Add "IBM PS/2, 25-30 series keyboard wedge interface". Page 39 Add "Presentation Scanning Auto-sense". Page 48 Add "Code 128" ID into Symbology ID Table. | |
| Rev.B4 | Mar. 05, 2010 | Page 15 Modify UPC-E/EAN-8 expansion and UPC-A standardization Page 33 Rename "Time Out Control" to "Serial Response Time-out". Page 35 Rename "Presentation Scanning Mode" to "Presentation Control". Page 38 Rename "Auto Power Off Duration" to "Light Source On Time". Add "Extremely short" option to Good Read Duration. Page 39 Rename "Presentation Scanning Auto-sense" to "Presentation Auto-sense". Add "Presentation Sensitivity" Page 54 System Commands – Add "Master Default" quick set command. | |
| Rev. B5 | Apr.12, 2010 | Page 38 Hands Free Time-out – Add "Disable". Page 39 Add "Trigger Control" (only available for FuzzyScan F460/F468). | |

Revision History

| Rev. No. | Released Date | Description |
|----------|---------------|--|
| Rev. B6 | May 27, 2010 | Page 33 Baud Rate – Add 57.6K BPS and 115.2K BPS. |
| Rev. B7 | Jun 25 , 2010 | Page 17 Add "UPC/EAN Security Level". Page 38 Add "Immediate" parameter (option 5) to "Time Delay to Low Power Mode" and change the default value from 5 seconds to immediate. |
| Rev. B8 | Sep 29 , 2010 | Page 15,16 Add "Supplement Scan Voting". Page 17 Add "EAN Supplement Control". Page 28 Keyboard Layout – Add "Czech (QWERTY)", remove "Universal", and rename Spain (QWERTY) to Spain (Spanish QWERTY), Latin America (QWERTY) to Spain (Latin America, QWERTY). Page 37 Add "Good Read Indicator". Page 38 "Scan Rate Control". |
| Rev. B9 | Nov 10 , 2010 | Page 34 Baud Rate – Cancel Baud Rate 300/600 BPS. |
| Rev. C1 | Mar 04, 2011 | Page 34 Baud Rate – Revise 57.6K BPS and 115.2K BPS option code from 6.7. to 8.9. |
| Rev. C2 | Mar 22, 2011 | Page 13 Add "Code 39 Security Level". Page 35 Add "NAK Retry Count". Add "ACK/NAK Transmission Indication". |
| Rev. C3 | Jul 22, 2011 | ◆ Page 9, 19, 24, 51 UCC/EAN-128 was renamed GS1-128 ◆ Page 35 Rename "ACK/NAK Transmission Indication" to "ACK Indication". ◆ Page 35 Add 2 new parameters to "ACK Indication".(Disable ACK Indication, Enable ACK Indication) ◆ Page 35 Rename the 2 parameters of the "ACK Indication". (Disable→ Disable ACK Time-out Indication, Enable→ Enable ACK Time-out Indication) ◆ Page 36 Add 6 parameters to "Serial response time -out". (800 mseconds, 3 seconds, 4 seconds, 8 seconds, 10 seconds, 15 seconds) |

Revision History

| Rev. C3 | Jul 22, 2011 | ✤ Page 36✤ Page 44 | Cancel the parameter "User defined value (seconds)" of " Serial response time -out". Add "Laser Aiming Control" function. |
|---------|---------------|--|--|
| Rev. C4 | Nov 04, 2011 | Page 14 | Add "Codabar Check Digit Settings" |
| Rev. C5 | Jan 02, 2012 | Page 38Page 38 | Cancel 1 parameter of "Code 39/Code 128 Emulation". (Disable standard code 39 emulation0) Change of default setting to Enable standard code 39 skip emulation in "Code 39/Code 128 Emulation". (Disable standard code 39 emulation (0)→ Enable standard code 39 skip emulation (1)) |
| Rev. C6 | Mar 05, 2012 | ✤ Page 45 | Add 3 new functions: "1D Barcode Forward-reading Indication", "1D Barcode Backward-reading Indication", "1D Barcode Direction Indication Transmission". |
| Rev. C7 | Jul 25, 2012 | Page 8 Page 13 Page 38 Page 39 Page 45 | Add "USB HID Legacy" option for "Host Interface Selection". Add "Code 128 security level". Restore the behavior and default setting of the Code39/Code 128 Emulation in "Wand/Laser Emulation Control" function. Laser imager supports Flash/ Force/ Toggle/ Diagnostic Modes. Laser imager supports "Presentation Control". Add "LED illumination Control" and "LED Illumination Delay" functions for Trigger Mode and Low Power Mode. |
| Rev. D1 | Dec. 18, 2012 | Support 2E |) Functions. |
| Rev. D2 | Apr. 22. 2013 | Page 36Page 60 | Change the default value of Data Matrix Inverse Reading to "Auto Detect" Modify "Batch Reading rule example" section |

Revision History

| | ev. D3 Aug. 20, 2013 | * | Page 12 | Modify "Readable Bar Code Setting" section |
|---------|----------------------|---|---------|--|
| Rev. D3 | | * | Page 76 | Modify "Symbology ID Table" |
| Rev. D4 | Sep. 06, 2013 | * | Page 73 | Modify "1D Bar Code Symbology" and "2D Bar Code Symbology" |

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Regulatory



Part 15 Subpart B

EN55022, EN55024, EN61000-3-2, EN61000-3-3, EN60950-1, EN61000-6-3, EN61000-6-2

CNS13438

C

AS/NZS CISPR 22:2009 Class B

C

VEI

KN22, KN24 (KN61000-2,-3,-4,-5,-6,-8,-11)

V-3/2011.04, TECHNICAL REQUIREMENTS, Class B ITE

LED Eye Safety IEC62471 Exempt group

Laser Eye Safety IEC60825-1 Class 1

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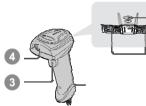
Getting Familiar with Your FuzzyScan

Thank you for choosing Cino FuzzyScan Bar Code Scanner. All FuzzyScan scanners deliver world-class performance for a broad range of applications to unleash your productivity.

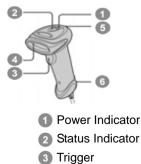
FuzzyScan family includes **A** series area imager, **F** series linear imager and **L** series laser imager. The **Antimicrobial** models are available for A770, L780 and F780 series scanners which are equipped with Disinfectant-ready Housing and Vibrator. Moreover, the option of **Vibrator** is available for all other series upon request. For more details, please visit our web site or contact your supplier.

This document provides an easy reference for installation and operation purpose. The complete documentation is available at www.cino.com.tw.

A770 Series



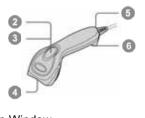
F680/L680 Series





F790/F780/ L780 Series

F560 Series



4 Scan Window5 Beeper

6 Cable Release Hole

Connecting to Your Host

FuzzyScan scanners support USB, PS/2(DOS/V) Keyboard Wedge and RS-232 Serial interfaces. Please choose your desired interface cable, then plug it into the cable interface port of the scanner and connect it to the host. If you would like to remove the cable, please straighten one end of a paper clip, then insert it into the cable release hole to pull out the cable.



RS232 Serial



PS/2 Keyboard Wedge



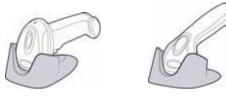
USB HID & USB COM



Using Accessories

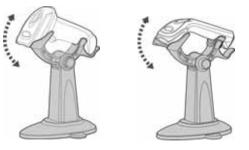
You can enhance productivity of your workforce by using various accessories to fulfill a wide variety of application demand.

Universal Holder



The stylish Universal Holder is designed for storing your scanner when not in use. It serves to protect the scanner from lens-scratched or falling. Moreover, its artistic-design enhances the entire value of the scanner. But please note that the holder is not applicable for *A series* scanners.

Hand-free SmartStand



SmartStand is specifically designed for hand-free applications to maximize user's comfort and productivity. You can adjust the scanner holder to desired position for optimized scanning. Thanks to the auto-sense design, the scanner is capable of switching between presentation scanning and hand-held scanning automatically while working with SmartStand. But please note that this feature is not available for **F500** series scanners.

In presentation mode, the barcode may not be detected by the scanner in an environment with very dim ambient lighting. You can select higher sensitivity level through the setting of **Presentation Sensitivity** to increase scanner's sensitivity.

Bar Code Programming Menual

The FuzzyScan bar code commands are specially designed **Proprietary** bar code labels which allow you to set the FuzzyScan internal programming parameters. There are **System Command**, **Family Code** and **Option Code** for programming purpose.

Each programmable family and bar code command label is listed on the same page with major system commands. The detailed explanations and special programming flowchart are printed on facing or following pages. You can read the explanation and set the FuzzyScan concurrently.

A supplemental bar code command menu incorporates the bar code command labels of System Command and Option Code. As you set the FuzzyScan, open the bar code command menu to find the option code page. You may scan the desired family code and option code to set FuzzyScan. If you want to change the programming family for multiple settings, you need only turn over the programming page to find next desired programming family.

System Command

The System Command is the highest level bar code command which directs FuzzyScan to perform immediate operations, such as entering programming mode (**PROGRAM**), exiting programming mode (**EXIT**), listing system information (**SYSLIST**), recovering to factory preset configurations (M_DEFAULT) and so on. Please note that all system commands will take a few seconds to complete the operations. User must wait for the completion beeps before scanning another bar code.

Family Code

The Family Code is scanned to select the user desired programming family. FuzzyScan has already provided more than one hundred programming families to meet any specific requirements.

Option Code

The Option Codes is a set of bar code commands represented by "**0–9**", "**A–F**" and finishing selection (**FIN**). For most setting, you must select at least one option code following the family code selection to set the desired parameter for the selected programming family.

FuzzyScan Programming Manual

Programming Procedures

As you scan the bar code command to select the desired parameters, information about the final selected parameters represented by the bar code commands are stored in the FuzzyScan's internal Flash Memory ASIC or memory. If you turn off the unit, the Flash Memory ASIC or non-volatile memory retains all programming options. You need not re-program the FuzzyScan if you want to keep the existing configurations in the next power on.

The programming procedures of FuzzyScan are designed as simple as possible for ease of setting. Most programming families take the **Single Scan Selection** programming procedure. But several programming families have more complex and flexible programmable options, and you must take **Multiple Scans Selection, Cycling Scan Selection or Dual Level Selection** to complete their programming procedures. Each kind of programming procedure is listed in the following pages for your reference. Please give careful attention to become familiar with each programming procedure. If the programming family must take multiple scans selection, cycling scan selection, or dual level selection procedures, the family of the programming menu will be marked with the matched representing symbol of **Programming Category** (P.C.) in bold font listed in the following table. You can easily find the bold mark in the programming menu, and refer to their flowcharts for details. Before setting the FuzzyScan, please also refer to the "Beeping Indications" listed in Appendix to understand the details of programming beeping indications. It will be very helpful for you to know the existing status while you are programming the FuzzyScan.

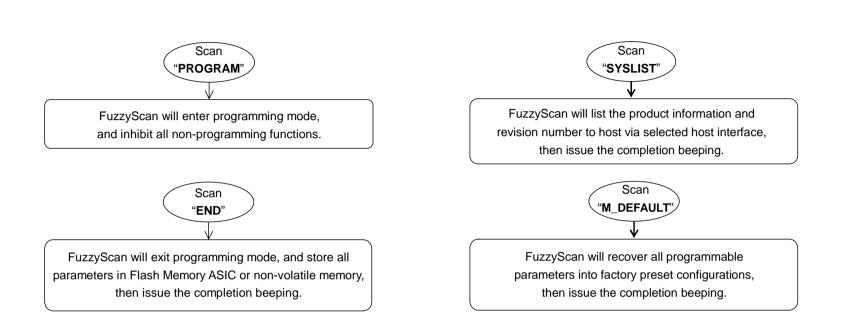
Conventions of Programming Menu

| Conventions | Descriptions |
|-------------|---------------------------------------|
| | Factory Default Value |
| P.C. | Programming Category |
| | SS : Single scan selection |
| | MS : Multiple scans selection |
| | CS : Cycling scan selection |
| | DS : Dual level scan selection |
| () | Necessary Option Code |
| [] | Selectable Option Code |

System List, Group & Master Default

cino

Program & End

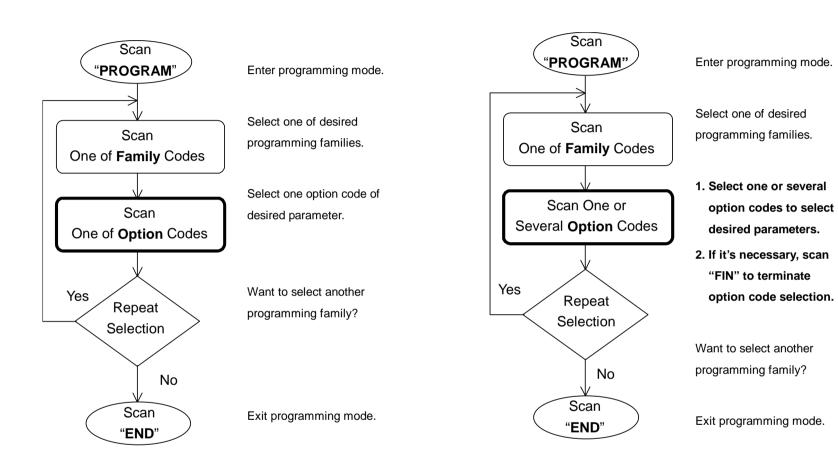


Please note that the FuzzyScan will take 3-4 seconds to store parameters in internal Flash Memory ASIC or non-volatile memory after you scan the "END". Please don't turn off the power before the completion beeping. It may destroy all configured parameters.

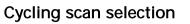
5

Multiple scans selection

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FuzzyScan Programming Manual



Scan

"PROGRAM"

Scan

One of Family Codes

Scan

One of **Option** Codes

Scan "FIN"

Repeat

Selection

Scan

"END"

No

Yes



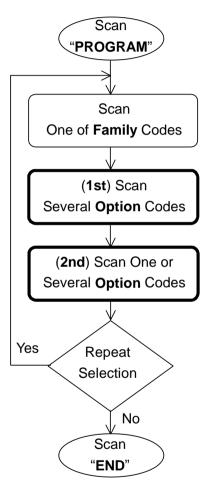
Select one of desired programming families.

Cycling select one or several option codes of desired parameters as "Single" or "Multiple" scans selection.

Finish cycling selection. (If necessary)

Want to select another programming family?

Exit programming mode.



Dual level selection

Enter programming mode.

Select one of desired programming families.

Select several option codes of desired parameters.

- 1. Select one or several option codes of desired parameters.
- 2. If it's necessary, scan "FIN" to terminate option code selection.

Want to select another programming family?

Exit programming mode.

Configure Your FuzzyScan

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PROGRAM

Host Interface Selection



F_DEFAULT

| | | | · · · · · · · · · · |
|--------------------------|--|--|--|
| Family Code Selection | P.C | Parameter Selection | Option Code |
| Host Interface Selection | MS MS MS MS MS MS MS MS MS | IBM PS/2, 25-30 series keyboard wedge interface Standard/TTL RS-232 peer-to-peer serial Wand Emulation USB Com Port Emulation PS/2 (DOS/V) direct link (keyboard replacement) PS/2 (DOS/V) keyboard wedge turbo mode PS/2 (DOS/V) keyboard wedge standard mode Laser emulation USB HID standard mode ◆ USB HID turbo mode USB HID Legacy | 02 06 08 09 10 13 14 17 18 19 20 |

• A series doesn't support Wand emulation, Laser emulation and USB HID Legacy.



FuzzyScan Programming Manual PROGRAM

Symbology Reading Control • User Defined Symbol ID •



F_DEFAULT

| Family Code Selection | P.C | Parameter Selection | Option Code | 2nd Option Co |
|-------------------------|-----|--|-------------|---------------|
| Symbol ID : 1 character | DS | Code 128 (default=B) | 00 | (1 character) |
| | | GS1-128 (default=C) | 01 | (1 character) |
| | | UPC-A (default=A) | 02 | (1 character) |
| | | EAN-13 (default=F) | 03 | (1 character) |
| | | Codabar/NW-7 (default=D) | 04 | (1 character) |
| | | Code 39/Code 32 (default=G) | 05 | (1 character) |
| | | Code 93 (default=H) | 06 | (1 character) |
| | | Standard/Industrial 2 of 5 (default=I) | 07 | (1 character) |
| | | Interleaved 2 of 5 (default=J) | 08 | (1 character) |
| | | Matrix 2 of 5 (default=K) | 09 | (1 character) |
| | | China Postal Code (default=L) | 10 | (1 character) |
| | | German Postal Code (default=M) | 11 | (1 character) |
| | | IATA (default= O) | 12 | (1 character) |
| | | Code 11 (default=P) | 13 | (1 character) |
| | | MSI/Plessey (default=R) | 14 | (1 character) |
| | | UK/Plessey (default=S) | 15 | (1 character) |
| | | Telepen (default=T) | 16 | (1 character) |
| | | GS1 DataBar (default=X) | 17 | (1 character) |
| | | UPC-E (default=E) | 18 | (1 character) |
| | | EAN-8 (default=N) | 19 | (1 character) |
| | | Trioptic Code 39 (default=W) | 20 | (1 character) |
| | | UCC Coupon Extended Code (default=Z) | 21 | (1 character) |
| | | PDF417/Micro PDF417 (default=V) | 22 | (1 character) |
| | | Codablock F (default=Y) | 23 | (1 character) |
| | | Code 16K (default=Q) | 24 | (1 character) |
| | | Code 49 (default=U) | 25 | (1 character) |
| | | Korea Post Code (default=a) | 26 | (1 character) |
| | | QR & Micro QR Code (default=b) | 28 | (1 character) |
| | | Data Matrix (default=c) | 29 | (1 character) |
| | | Maxi Code (default=d) | 30 | (1 character) |





Symbology Reading Control

♦ User Defined Symbol ID ♦



| PROGRAM | | | | F_DEFAULT |
|-------------------------|-----|--|--|--|
| Family Code Selection | P.C | Parameter Selection | Option Code | 2nd Option Code |
| Symbol ID : 1 character | DS | Aztec Code (default=e) Chinese Sensible (default=f) Australian Post (default=g) British Post (default=h) Intelligent Mail (USPS 4CB/One Code) (default=j) Japan Post (default=k) Netherlands KIX Post (default=l) US Planet (default=m) US Postnet (default=o) | 31 32 33 34 36 37 38 39 41 | (1 character) (1 character) (1 character) (1 character) (1 character) (1 character) (1 character) (1 character) (1 character) (1 character) |





Symbology Reading Control

♦ Symbology ID Transmission ♦



F_DEFAULT

| P.C | Parameter Selection | Option Code |
|-----|--|--|
| SS | Disable symbology ID transmission ◆ | 0 |
| SS | Enable prefix CINO symbology ID transmission | 1 |
| SS | Enable suffix CINO symbology ID transmission | 2 |
| SS | Enable both prefix and suffix CINO symbology ID transmission | 3 |
| SS | Enable prefix AIM symbology ID transmission | 4 |
| SS | Enable suffix AIM symbology ID transmission | 5 |
| SS | Enable both prefix and suffix AIM symbology ID transmission | 6 |
| | SS SS SS SS SS SS | SSDisable symbology ID transmission ◆SSEnable prefix CINO symbology ID transmissionSSEnable suffix CINO symbology ID transmissionSSEnable both prefix and suffix CINO symbology ID transmissionSSEnable prefix AIM symbology ID transmissionSSEnable prefix AIM symbology ID transmissionSSEnable suffix AIM symbology ID transmission |





P.C

PROGRAM

Family Code Selection

Symbology Reading Control

♦ Readable Bar Code Setting ♦

Parameter Selection



Option Code

A0

A1

A2

A3

A4

F DEFAULT

| | | SS | Auto 🔶 |
|-------------|---------------------------------------|----|---------------------------------|
| | Readable Symbology Setting | CS | Code 128 * |
| | | CS | GS1-128 * |
| | | CS | UPC-A * |
| | | CS | UPC-E * |
| | | CS | EAN-13 * |
| | | CS | EAN-8 * |
| | | CS | Codabar/NW-7 * |
| | | CS | Code 39 * |
| | | CS | Trioptic Code 39 |
| | | CS | Standard/Industrial 2 of 5 |
| | | CS | Matrix 2 of 5 |
| | | CS | Interleaved 2 of 5 * |
| | | CS | China Postal Code |
| | Remember to scan "FIN" to terminate | CS | Germany Postal Code |
| | this selection. But if you select the | CS | Code 93 * |
| ning Manual | "Auto", FuzzyScan will terminate this | CS | Code 11 |
| | | CS | MSI/Plessey |
| | selection automatically. | CS | UK/Plessey |
| | | CS | Telepen |
| T | | CS | GS1 DataBar (RSS-14) * |
| | | CS | ΙΑΤΑ |
| | | CS | PDF417 * /Micro PDF417 |
| | | CS | Codablock F |
| | | CS | Code 16K |
| | | CS | Code 49 |
| | | CS | Korea Post Code |
| | | CS | QR Code */ Micro QR Code * |
| | | CS | Data Matrix * |
| | | CS | MaxiCode |
| | | CS | Aztec Code * |
| | | CS | Chinese Sensible (Han Xin) Code |
| N OD | | | |
| | | | |
| | | | |
| | | | |

| 12 | | |
|----|--|--|





Symbology Reading Control

♦ Readable Bar Code Setting ♦



F_DEFAULT

| Family Code Selection | P.C | Parameter Selection | Option Code |
|----------------------------|----------|---------------------------------|-------------|
| Readable Symbology Setting | CS CS | Australian Post British Post | B0 B1 |
| | CS | Intelligent Mail barcode | B3 |
| | CS CS | Japanese Post KIX Post | B4 B5 |
| | CS | Planet Code | B6 |
| | CS | Postnet | B8 |

• If your application is known, you may select those known symbologies only to increase the reading speed and decrease the possibility of reading error. Furthermore, to add the "Symbology ID" into the transmitted data is also helpful to identify the specific symbology.

• Above symbologies marketed with * are enabled as default. When you select "Auto", the scanner only reads those symbologies marked with *.

• When you set the minimum and maximum length of each symbology, please note the data length of scanned bar code doesn't include start/stop characters.





Symbology Reading Control

♦ Code 39/Code 32 Setting ♦



F_DEFAULT

| | Family Code Select |
|---------|--|
| | Code 39 Family Settir |
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| Manua | T |
| | Trioptic Code 39 Setti |
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| \geq | |
| lg I | Code 39 Min. Length |
| | |
| | |
| | |
| | Code 39 Max. Lengt |
| | |
| | |
| | Trioptic Code 39 and Code 39 F |
| | - moplic code 39 and code 39 f |
| | |
| | |

| TROORAW | | | |
|---------------------------------------|-------------|---|--------------------|
| Family Code Selection | P.C | Parameter Selection | Option Code |
| Code 39 Family Setting | SS | Disable Code 39 | 0 |
| | SS | Enable Code 39 | 1 |
| | SS | Select Standard Code 39 as primary format ◆ | 2 |
| | SS | Select Full ASCII Code 39 as primary format | 3 |
| | SS | Select Code 32 (PARAF, Italian Pharmaceutical) as primary format | 4 |
| | SS | Disable start/stop symbol transmission ◆ | 5 |
| | SS | Enable start/stop symbol transmission | 6 |
| | SS | Disable Code 32 leading A transmission ◆ | 7 |
| | SS | Enable Code 32 leading A transmission | 8 |
| | SS | Disable MOD 43 check digit verification ◆ | 9 |
| | SS | Enable MOD 43 check digit verification | А |
| | SS | Disable check digit transmission ◆ | В |
| | SS | Enable check digit transmission | С |
| | SS | Disable Code 39 buffering ◆ | D |
| | SS | Enable Code 39 buffering | E |
| Trioptic Code 39 Setting | SS | Disable Trioptic Code 39 ◆ | 0 |
| | SS | Enable Trioptic Code 39 | 1 |
| Code 39 Min. Length | SS | Default (01) ◆ | FIN |
| | MS | 01-Maximum | (2 digits) |
| | | Scan 2 digits from the option code chart in Appendix; then FuzzyScan will terminate this selection automatically. | |
| Code 39 Max. Length | SS | Default (98) ◆ | FIN |
| | MS | 98-Minimum | (2 digits) |
| | | Scan 2 digits from the option code chart in Appendix; then FuzzyScan will terminate this selection automatically. | |
| Trioptic Code 39 and Code 39 Full ASC | II cannot b | e enabled simultaneously. | |
| | | | |



PROGRAM

Symbology Reading Control

♦ Code 39 Setting ♦



F_DEFAULT

| Family Code Selection | P.C | Parameter Selection | Option Code |
|------------------------|-----|---------------------|-------------|
| Code 39 Security Level | SS | Level 0 | 0 |
| 2 | SS | Level 1 | 1 |
| | SS | Level 2 🔶 | 2 |
| | SS | Level 3 | 3 |

Code 39 Security Level

The scanner offers four levels of decode security for Code39 bar codes:

Level 0: If you are experiencing misread of poorly-printed or serious out-of-spec. bar codes in level 1, please select level 0.

Level 1: If you are experiencing misread of poorly-printed or out-of-spec. bar codes in level 2, please select level 1.

Level 2: This is the default setting which allows the scanner to operate fastest, while providing sufficient security in decoding "in-spec" Code39 bar codes.

Level 3: If you failed to read poorly-printed or out-of-spec. bar codes in level 2, please select level 3. This is the most aggressive setting and may increase the misread.

Symbology Reading Control

Codabar/NW-7 Setting



| Manual | Codabar Cheo |
|----------------------|--------------|
| ming | Codabar |
| FuzzyScan Program | Codabar I |

| PROGRAM | | | F_DEFAULT |
|------------------------------|--|--|--|
| Family Code Selection | P.C | Parameter Selection | Option Code |
| Codabar Setting | SS SS SS SS SS SS SS SS SS SS SS SS | Disable Codabar Enable Codabar ◆ Select Codabar standard format ◆ Select Codabar ABC format Select Codabar CLSI format Select Codabar CX format Disable start/stop symbol transmission ◆ Enable ABCD/ABCD start/stop symbol transmission Enable abcd/abcd start/stop symbol transmission Enable ABCD/TN*E start/stop symbol transmission Enable ABCD/TN*E start/stop symbol transmission Enable abcd/tn*e start/stop symbol transmission Enable check digit verification ◆ Enable check digit verification Disable check digit transmission Enable check digit transmission | 0 1 2 3 4 5 6 7 8 9 A 8 9 A B C D E |
| Codabar Check Digit Settings | SS SS SS SS SS SS SS | Modulus 16 ◆ Modulus 10/weight 3 Modulus 11 Modulus 10/weight 2 7 check DR Weight Modulus 11 Runes (Modulus 10/weight 2) | 0 1 2 3 4 5 6 |
| Codabar Min. Length | SS M S | Default (04) 01-Maximum Scan 2 digits from the option code chart in Appendix; then FuzzyScan will terminate this selection automatically. | FIN (2 digits) |
| Codabar Max. Length | SS MS | Default (98) 98-Minimum Scan 2 digits from the option code chart in Appendix; then FuzzyScan will terminate this selection automatically. | FIN (2 digits) |





Symbology Reading Control

Configure Your FuzzyScan

♦ UPC-A & UPC-E Setting ♦



F DEFAULT

| Family Code SelectionP.CParameter SelectionOptic | on Code |
|--|--|
| | |
| UPC Family Setting SS Disable UPC-A SS Disable UPC-E SS SS Disable UPC-E ◆ SS Disable UPC-E expansion ◆ SS SS Enable UPC-E expansion ◆ SS Disable UPC standardization ◆ SS Enable UPC standardization ◆ SS Enable UPC numeric system SS Disable UPC-A check digit transmission SS Enable UPC-A check digit transmission ◆ SS Disable UPC-E check digit transmission ◆ SS Disable UPC "leading 1" portion ◆ SS Enable UPC "leading 1" portion ◆ SS Enable UPC "leading 1" portion ◆ | 0 1 2 3 4 5 6 7 8 9 A B C D E F |

• When enable UPC-E expansion, the UPC-E decoded data will be converted to UPC-A format and affected by related setting, such as UPC standardization, UPC numeric system, UPC-A check digit transmission.

UPC-E & EAN-8 Expansion : Expand the 8-digit UPC-E and 8-digit ENA-8 to 12-digit UPC-A and 13-digit EAN-13.

UPC-A Standardization : Expand the 12-digit UPC-A to 13-digit EAN-13 with 1 zero insertion.

UPC Lead 1 Numeric System

: To read UPC leading with the 1 numeric system, you must enable this option.

| WPC Selection (UPC/EAN/CAN) | Basic Length | Disable Check Digit | Disable Numeric System | With 2-digit Addendum | With 5-digit Addendum | Enable Standardization | Enable Expansion |
|--------------------------------|--------------|------------------------|---------------------------|--------------------------|--------------------------|---------------------------|---------------------|
| UPC-A | 12 | - 1 | - 1 | + 2 | + 5 | + 1 | 0 |
| UPC-E | 8 | - 1 | - 1 | + 2 | + 5 | + 1 | + 4 |
| EAN-13 | 13 | - 1 | NC | + 2 | + 5 | NC | 0 |
| EAN-8 | 8 | - 1 | NC | + 2 | + 5 | NC | + 5 |

Configure Your FuzzyScan





Symbology Reading Control

♦ UPC-A & UPC-E Setting ♦



F_DEFAULT

| TROOKAW | | | I_DLIAULI |
|------------------------|-----|--|--------------------|
| Family Code Selection | P.C | Parameter Selection | Option Code |
| UPC Supplement Setting | SS | Select UPC without supplement digits ◆ | 0 |
| | SS | Select UPC with only 2 supplement digits | 1 |
| | SS | Select UPC with only 5 supplement digits | 2 |
| | SS | Select UPC with 2/5 supplement digits | 3 |
| | SS | Disable force supplement digits output | 4 |
| | SS | Enable force supplement digits output | 5 |
| | SS | UPC Family Addenda Separator Off I | 6 |
| | SS | UPC Family Addenda Separator On | 7 |
| UPC/EAN Security Level | SS | Level 0 | 0 |
| | SS | Level 1 🔶 | 1 |
| | SS | Level 2 | 2 |
| | | Only available for UPC-A & EAN-13 | |
| Supplement Scan Voting | SS | None | 0 |
| | SS | Level 1 | 1 |
| | SS | Level 2 | 2 |
| | SS | Level 3 🔶 | 3 |
| | SS | Level 4 | 4 |
| | SS | Level 5 | 5 |
| | SS | Level 6 | 6 |
| | SS | Level 7 | 7 |
| | SS | Level 8 | 8 |
| | SS | Level 9 | 9 |
| | SS | Level 10 | A |
| | SS | Level 11 | В |
| | SS | Level 12 | С |
| | SS | Level 13 | D |

UPC/EAN Security Level

The scanner offers three levels of decode security for UPC/EAN bar codes:

- Level 0: If you are experiencing misread of poorly-printed or out-of-spec. bar codes, especially in characters 1, 2, 7, and 8 in level 1, please select level 0. Selection of this security level may significantly impair the decoding ability of the scanner.
- Level 1: This is the default setting which allows the scanner to operate fastest, while providing sufficient security in decoding "in-spec" UPC/EAN bar codes.
- Level 2: If you are experiencing misread of poorly-printed, soiled or damage bar codes in level 1, please select level 2. This is the most aggressive setting and may increase the misread.
- The Supplement Scan Voting is the number of times the same UPC/EAN with 2/5 supplement digits has to be decoded before it is transmitted. It is helpful when decoding a mix of UPC/EAN symbols with and without supplement digits. This function is effective when you select UPC/EAN with only 2 supplement digits, UPC/EAN with only 5 supplement digits or UPC/EAN with 2/5 supplement digits. The default value is Level 3. When you select higher level, it may impact the reading speed on poorly-printed, low contrast or damage barcode labels.

Configure Your FuzzyScan





PROGRAM

Symbology Reading Control

♦ EAN Setting ♦



F_DEFAULT

Code

| FROORAIM | | | |
|-------------------------|----------|---|----------------------------|
| Family Code Selection | P.C | Parameter Selection | Option |
| EAN Setting | SS | Disable EAN-13 | 0 |
| • | SS | Enable EAN-13 ◆ | 1 |
| | SS | Disable EAN-8 | 2 |
| | SS | Enable EAN-8 | 3 |
| | SS | Disable EAN-8 expansion ◆ | 4 |
| | SS | Enable EAN-8 expansion | 5 |
| | SS SS | Disable EAN-13 check digit transmission | 6 7 |
| | SS SS | Enable EAN-13 check digit transmission | |
| | SS | Disable EAN-8 check digit transmission Enable EAN-8 check digit transmission ◆ | 89 |
| | SS | Disable ISBN/ISSN Conversion reading check \blacklozenge | A |
| | SS | Enable ISBN/ISSN Conversion reading check | B |
| | SS | Select EAN without supplement digits \blacklozenge | 0 |
| EAN Supplement Setting | SS | Select EAN with only 2 supplement digits | 1 |
| | SS | Select EAN with only 5 supplement digits | |
| | SS | Select EAN with 2/5 supplement digits | 23 |
| | SS | Disable force supplement digits output ◆ | 4 |
| | SS | Enable force supplement digits output | 5 |
| | SS | EAN Addenda Separator Off \blacklozenge | 6 |
| | SS | EAN Addenda Separator On | 7 |
| Supplement Scan Voting | SS | None | 0 |
| Supplement Scall Voting | SS | Level 1 | 1 |
| | SS | Level 2 | 2 3 4 5 6 7 |
| | SS | Level 3 ◆ | 3 |
| | SS | Level 4 | 4 |
| | SS | Level 5 | 5 |
| | SS | Level 6 | 6 |
| | SS SS | Level 7 Level 8 | |
| | SS SS | Level 8 Level 9 | 8 9 |
| | SS | Level 9 Level 10 | A A |
| | SS | Level 11 | B |
| | SS | Level 12 | C |
| | SS | Level 13 | D |

Configure Your FuzzyScan

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• The Supplement Scan Voting is the number of times the same UPC/EAN with 2/5 supplement digits has to be decoded before it is transmitted. It is helpful when decoding a mix of UPC/EAN symbols with and without supplement digits. This function is effective when you select UPC/EAN with only 2 supplement digits, UPC/EAN with only 5 supplement digits or UPC/EAN with 2/5 supplement digits. The default value is Level 3. When you select higher level, it may impact the reading speed on poorly-printed, low contrast or damage barcode labels.



Symbology Reading Control

Configure Your FuzzyScan

♦ EAN Setting ♦



F_DEFAULT

| Family Code Selection | P.C | Parameter Selection | Option Code |
|------------------------|-----|---|--------------------|
| UPC/EAN Security Level | SS | Level 0 | 0 |
| , | SS | Level 1 🔶 | 1 |
| | SS | Level 2 | 2 |
| | | Only available for UPC-A & EAN-13 | |
| EAN Supplement Control | SS | Disable all specific prefix supplement digital output 🔶 | 0 |
| | SS | Enable all specific prefix supplement digital output | 1 |
| | SS | Enable 491 Supplement Digit Output | 2 |
| | SS | Enable 978/979 Supplement Digit Output | 3 |
| | SS | Enable 977 Supplement Digit Output | 4 |
| | SS | Enable 378/379 Supplement Digit Output | 5 |
| | SS | Enable 414/419 Supplement Digit Output | 6 |
| | SS | Enable 434/439 Supplement Digit Output | 7 |

UPC/EAN Security Level

The scanner offers three levels of decode security for UPC/EAN bar codes:

Level 0: If you are experiencing misread of poorly-printed or out-of-spec. bar codes, especially in characters 1, 2, 7, and 8 in level 1, please select level 0. Selection of this security level may significantly impair the decoding ability of the scanner.

Level 1: This is the default setting which allows the scanner to operate fastest, while providing sufficient security in decoding "in-spec" UPC/EAN bar codes.

Level 2: If you are experiencing misread of poorly-printed, soiled or damage bar codes in level 1, please select level 2. This is the most aggressive setting and may increase the misread.

EAN Supplement Control

If you select EAN with only 2, or 5 or 2/5 supplement digits and enable 491 prefix supplement digit output, the scanner will transmit EAN with 2, or 5 or 2/5 supplement digits bar codes starting with 491 prefix. The EAN without supplement digit **will not** be transmitted.

If you select EAN with only 2, or 5 or 2/5 supplement digits and enable the other except 491 prefix supplement digit output, the scanner will transmit EAN with 2, or 5, or 2/5 supplement digits bar codes starting with specific prefix. The EAN without supplement digit will be transmitted.





Symbology Reading Control

♦ UCC Coupon Extended Code Setting ♦



F_DEFAULT

| Family Code Selection | P.C | Parameter Selection | Option Code |
|--------------------------|----------|---|-------------|
| UCC Coupon Extended Code | SS SS | Disable UCC Coupon Extended Code ◆ Enable UCC Coupon Extended Code | 0 1 |

UCC Coupon Extended Code

When UCC coupon extended code function is enabled, scanner decodes UPC-A barcodes starting with digit "5", EAN-13 barcodes starting with digit "99" and GS1-128 Coupon Codes. UPC-A, EAN-13 and EAN-128 must be enabled to scan all types of Coupon Codes.





Symbology Reading Control

♦ IATA & Interleaved 2 of 5 Setting ♦



PROGRAM

| Family Code Selection | P.C | Parameter Selection | Option Code |
|----------------------------|-----|--|--------------------|
| IATA Setting | SS | Disable IATA 🔶 | 0 |
| | SS | Enable IATA | 1 |
| | SS | Select 15-digit fixed length IATA checking ◆ | 2 |
| | SS | Select variable length IATA | 3 |
| | SS | Disable check digit verification 🔶 | 4 |
| | SS | Enable check digit automatic verification | 5 |
| | SS | Enable S/N checking digit verification only | 6 |
| | SS | Enable CPN checking digit verification only | 7 |
| | SS | Enable CPN, Airline and S/N check digit verification | 8 |
| | SS | Disable check digit transmission 🔶 | 9 |
| | SS | Enable check digit transmission | А |
| | SS | Disable start/stop symbol transmission ◆ | В |
| | SS | Enable start/stop symbol transmission | С |
| Interleaved 2 of 5 Setting | SS | Disable Interleaved 2 of 5 | 0 |
| | SS | Enable Interleaved 2 of 5 🔶 | 1 |
| | SS | Select Interleaved 2 of 5 as primary format ◆ | 2 |
| | SS | Select German Postal Code as primary format | 3 |
| | SS | No check character 🔶 | 4 |
| | SS | Validate USS check digit | 5 |
| | SS | Validate OPCC check digit | 6 |
| | SS | Disable check digit transmission 🔶 | 7 |
| | SS | Enable check digit transmission | 8 |





Symbology Reading Control

♦ Code 25 Family Setting ♦



F_DEFAULT

| Family Code Selection | P.C | Parameter Selection | Option Code |
|----------------------------|-----|---|--------------------|
| Code 25 Setting | SS | Disable Standard/Industrial 2 of 5 ◆ | 0 |
| | SS | Enable Standard/Industrial 2 of 5 | 1 |
| | SS | Disable Matrix 2 of 5 ◆ | 2 |
| | SS | Enable Matrix 2 of 5 | 3 |
| | SS | Disable China Postal Code 🔶 | 4 |
| | SS | Enable China Postal Code | 5 |
| | SS | Disable check digit verification ◆ | 6 |
| | SS | Enable check digit verification | 7 |
| | SS | Disable check digit transmission 🔶 | 8 |
| | SS | Enable check digit transmission | 9 |
| Code 25 Family Min. Length | SS | Default (04) ◆ | FIN |
| | MS | 01-Maximum | (2 digits) |
| | | Scan 2 digits from the option code chart in Appendix; then FuzzyScan will terminate this selection automatically. | |
| Code 25 Family Max. Length | SS | Default (98) ◆ | FIN |
| | MS | 98-Minimum | (2 digits) |
| | | Scan 2 digits from the option code chart in Appendix; then FuzzyScan will terminate this selection automatically. | |

• For Code25 setting, we recommend you to select only one type of Code 25 or set the maximum/minimum bar code length. To decode all types of Code 25 or to variable length of Code 25 will increase the possibility of reading error.





Symbology Reading Control

♦ Code 11 & Code 93 Setting ♦



F_DEFAULT

| | | I _DEI/IOEI |
|------|---|---|
| P.C | Parameter Selection | Option Code |
| SS | Disable Code 11 ◆ | 0 |
| SS | Enable Code 11 | 1 |
| SS | Disable check digit verification ◆ | 2 |
| SS | Select 1-check digit verification | 3 |
| | 5 | 4 |
| | 5 | 5 |
| SS | Enable check digit transmission | 6 |
| SS | Default (04) 🔶 | FIN |
| MS | 01-Maximum | (2 digits) |
| | Scan 2 digits from the option code chart in Appendix; then FuzzyScan will terminate this selection automatically | |
| SS | , , | FIN |
| | | (2 digits) |
| | | (=97 |
| | this selection automatically. | |
| SS | Disable Code 93 | 0 |
| SS | Enable Code 93 🔶 | 1 |
| SS | Disable check digit transmission 🔶 | 2 |
| SS | Enable check digit transmission | 3 |
| SS | Default (01) ◆ | FIN |
| MS | 01-Maximum | (2 digits) |
| | Scan 2 digits from the option code chart in Appendix; then FuzzyScan will terminate | |
| 66 | | EN1 |
| | | FIN (2 digita) |
| IVIS | | (2 digits) |
| | Scan 2 digits from the option code chart in Appendix; then FuzzyScan will terminate this selection automatically. | |
| | SS SS SS SS SS SS SS MS SS SS SS SS SS S | SS Disable Code 11 ◆ SS Enable Code 11 SS Disable check digit verification ◆ SS Select 1-check digit verification SS Select 2-check digit verification SS Enable check digit transmission ◆ SS Enable check digit transmission ◆ SS Default (04) ◆ MS 01-Maximum Scan 2 digits from the option code chart in Appendix; then FuzzyScan will terminate this selection automatically. SS Default (98) ◆ MS 98-Minimum Scan 2 digits from the option code chart in Appendix; then FuzzyScan will terminate this selection automatically. SS Disable Code 93 SS Enable Code 93 ◆ Disable Code 93 ◆ Disable Code 93 ◆ SS Default (01) ◆ MS 01-Maximum Scan 2 digits from the option code chart in Appendix; then FuzzyScan will terminate this selection automatically. SS Default (01) ◆ MS 01-Maximum Scan 2 digits from the option code chart in Appendix; then FuzzyScan will terminate this selection automatically. SS Default (08) ◆ 98-Minimum Scan 2 digits from |

Configure Your FuzzyScan





PROGRAM

Symbology Reading Control

♦ MSI/Plessey Setting ♦



F_DEFAULT

| Family Code Selection | P.C | Parameter Selection | Option Code |
|-------------------------|-----|---|--------------------|
| MSI/Plessey Setting | SS | Disable MSI/Plessy 🔶 | 0 |
| | SS | Enable MSI/Plessy | 1 |
| | SS | Select MOD 10 check digit 🔶 | 2 |
| | SS | Select MOD 10-10 check digit | 3 |
| | SS | Select MOD 11-10 check digit | 4 |
| | SS | Disable check digit transmission 🔶 | 5 |
| | SS | Enable check digit transmission | 6 |
| MSI/Plessey Min. Length | SS | Default (04) | FIN |
| | MS | 01-Maximum | (2 digits) |
| | | Scan 2 digits from the option code chart in Appendix; then FuzzyScan will terminate this selection automatically. | |
| MSI/Plessey Max. Length | SS | Default (98) 🔶 | FIN |
| | MS | 98-Minimum | (2 digits) |
| | | Scan 2 digits from the option code chart in Appendix; then FuzzyScan will terminate this selection automatically. | |





Symbology Reading Control

♦ Code 128 Setting ♦



F_DEFAULT

| Family Code Selection | P.C | Parameter Selection | Option Code |
|-------------------------|-----|---|--------------------|
| Code 128 Setting | SS | Disable Code 128 | 0 |
| | SS | Enable Code 128 🔶 | 1 |
| | SS | ISBT Concatenation Off | 2 |
| | SS | ISBT Concatenation On | 3 |
| Code 128 Min. Length | SS | Default (01) ◆ | FIN |
| | MS | 01-Maximum | (2 digits) |
| | | Scan 2 digits from the option code chart in Appendix; then FuzzyScan will terminate this selection automatically. | |
| Code 128 Max. Length | SS | Default (98) ◆ | FIN |
| | MS | 98-Minimum | (2 digits) |
| | | Scan 2 digits from the option code chart in Appendix; then FuzzyScan will terminate this selection automatically. | |
| Code 128 Security Level | SS | Level 0 | 0 |
| | SS | Level 1 🔶 | 1 |

Code 128 Security Level

The scanner offers two levels of decode security for Code128 bar codes:

Level 0: If you are experiencing misread of poor-printed or out-of-spec. bar code in level1, please select level 0.

Level 1: This is the default setting which allows the scanner to operate fastest, while providing sufficient security in decoding "in-spec." Code128 bar codes.





Symbology Reading Control

♦ GS1-128 Setting ♦



F_DEFAULT

| | | | - |
|-----------------------|----------|--|--------------------|
| Family Code Selection | P.C | Parameter Selection | Option Code |
| GS1-128 Setting | SS SS | Disable GS1-128 Enable GS1-128 ◆ | 0 1 |
| GS1-128 Min. Length | SS MS | Default (01) 01-Maximum Scan 2 digits from the option code chart in Appendix; then FuzzyScan will terminate this selection automatically. | FIN (2 digits) |
| GS1-128 Max. Length | SS MS | Default (98) ◆ 98-Minimum Scan 2 digits from the option code chart in Appendix; then FuzzyScan will terminate this selection automatically. | FIN (2 digits) |





Symbology Reading Control

♦ UK/Plessey Setting ♦



F_DEFAULT

| Family Code Selection | P.C | Parameter Selection | Option Code |
|------------------------|-----|---|-------------|
| UK/Plessey Setting | SS | Disable UK/Plessey ◆ | 0 |
| | SS | Enable UK/Plessey | 1 |
| | SS | Select UK/Plessey Standard Format 🔶 | 2 |
| | SS | Select UK/Plessey CLSI Format | 3 |
| | SS | Disable Convert X to A-F ◆ | 4 |
| | SS | Enable Convert X to A-F | 5 |
| | SS | Disable check digit transmission ◆ | 6 |
| | SS | Enable check digit transmission | 7 |
| UK/Plessey Min. Length | SS | Default (04) ◆ | FIN |
| | MS | 01-Maximum | (2 digits) |
| | | Scan 2 digits from the option code chart in Appendix, then FuzzyScan will terminate this selection automatically. | |
| UK/Plessey Max. Length | SS | Default (98) 🔶 | FIN |
| | MS | 98-Minimum | (2 digits) |
| | | Scan 2 digits from the option code chart in Appendix, then FuzzyScan will terminate this selection automatically. | |





Symbology Reading Control





F_DEFAULT

| Family Code Selection | P.C | Parameter Selection | Option Code |
|-----------------------|----------------------|--|-------------------|
| Telepen Setting | SS SS | Disable Telepen ◆ Enable Telepen | 0 1 |
| | SS SS SS SS | Select Telepen Numeric mode ◆ Select Telepen Full ASCII mode Disable check digit transmission ◆ Enable check digit transmission | 2 3 4 5 |
| Telepen Min. Length | SS MS | Default (04) ◆ 01-Maximum Scan 2 digits from the option code chart in Appendix, then FuzzyScan will terminate this selection automatically. | FIN (2 digits) |
| Telepen Max. Length | SS MS | Default (98) ◆ 98-Minimum Scan 2 digits from the option code chart in Appendix, then FuzzyScan will terminate this selection automatically. | FIN (2 digits) |

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PROGRAM

Symbology Reading Control

Configure Your FuzzyScan

♦ GS1 DataBar Setting ♦



F_DEFAULT

| | | | I _DEIMOEI |
|-------------------------|-----|--|--------------------|
| Family Code Selection | P.C | Parameter Selection | Option Code |
| GS1 DataBar Setting | SS | Disable GS1 DataBar (RSS-14) | 0 |
| | SS | Enable GS1 DataBar (RSS-14) ◆ | 1 |
| | SS | Disable GS1 DataBar Limited | 2 |
| | SS | Enable GS1 DataBar Limited \blacklozenge | 3 |
| | SS | Disable GS1 DataBar Expanded | 4 |
| | SS | Enable GS1 DataBar Expanded ◆ | 5 |
| GS1 DataBar Min. Length | SS | Default (04) ◆ | FIN |
| | MS | 01-Maximum | (2 digits) |
| | | Only available for Expanded GS1 DataBar. | |
| | | Scan 2 digits from the option code chart in Appendix; then FuzzyScan will terminate | |
| | | this selection automatically. | |
| GS1 DataBar Max. Length | SS | Default (74) ◆ | FIN |
| | MS | 74-Minimum | (2 digits) |
| | | Only available for Expanded GS1 DataBar.Scan 2 digits from the option code chart in Appendix; then FuzzyScan will terminate this selection automatically. | |

Configure Your FuzzyScan





Symbology Reading Control

Composite Codes, Codablock F
 PDF417/MicroPDF417 & Setting



| Family Code Selection | P.C | Parameter Selection | Option Code |
|-----------------------------|-----|--|-------------|
| Composite Codes Setting | SS | Disable composite codes 🔶 | 0 |
| | SS | Enable composite codes | 1 |
| | SS | UPC Composite Mode: UPC never linked ◆ | 2 |
| | SS | UPC Composite Mode: UPC always linked | 3 |
| | | If UPC Composite Mode: UPC never linked is selected, UPC barcodes are transmitted whether MicroPDF417 symbol is detected or not. | |
| | | If UPC Composite Mode: UPC always linked is selected, UPC barcodes are only transmitted when the MicroPDF417 is detected. | |
| Codablock F Setting | SS | Disable 🔶 | 0 |
| | SS | Enable | 1 |
| PDF417/Micro PDF417 Setting | SS | Disable PDF417 | 0 |
| | SS | Enable PDF417 | 1 |
| | SS | Disable MicroPDF417 ◆ | 2 |
| | SS | Enable MicroPDF417 | 3 |
| | | | |





Symbology Reading Control

♦ Code 16K & Code 49 Setting ♦



F_DEFAULT

| Family Code Selection | P.C | Parameter Selection | Option Code |
|-----------------------|----------|---|--------------------|
| Code 16K Setting | SS SS | Disable Code 16K ◆ Enable Code 16K | 0 |
| | 33 | | I |
| Code 16K Min. Length | SS MS | Default (01) ◆ 01-Maximum | FIN (3 digits) |
| | IVIS | Scan 3 digits from the option code chart in Appendix; then FuzzyScan will terminate this selection automatically. | (3 digits) |
| Code 16K Max. Length | SS MS | Default (160) ◆ 160-Minimum | FIN (3 digits) |
| | IVIS | Scan 3 digits from the option code chart in Appendix; then FuzzyScan will terminate this selection automatically. | (3 digits) |
| Code 49 Setting | SS SS | Disable Code 49 ◆ Enable Code 49 | 0 1 |
| Code 49 Min. Length | SS | Default (01) ◆ | FIN |
| | MS | 01-Maximum | (2 digits) |
| | | Scan 2 digits from the option code chart in Appendix; then FuzzyScan will terminate this selection automatically. | |
| Code 49 Max. Length | SS | Default (81) ◆ | FIN |
| | MS | 81-Minimum | (2 digits) |
| | | Scan 2 digits from the option code chart in Appendix; then FuzzyScan will terminate this selection automatically. | |





Symbology Reading Control

♦ QR Code Setting ♦



F_DEFAULT

| 1 ROOK W | | | |
|-----------------------|-----|---|--------------------|
| Family Code Selection | P.C | Parameter Selection | Option Code |
| QR Code Setting | SS | Disable QR Code | 0 |
| | SS | Enable QR Code 🔶 | 1 |
| | | Disable MicroQR Code | 2 |
| | | Enable MicroQR Code 🔶 | 3 |
| | | Disable QR Code Append | 4 |
| | | Enable QR Code Append 🔶 | 5 |
| | | Disable QR Code Inverse Reading ◆ | 6 |
| | | Enable QR Code Inverse Reading | 7 |
| | | Auto detect QR Code Inverse Reading | 8 |
| QR Code Min. Length | SS | Default (01) ◆ | FIN |
| | MS | 01-Maximum | (4 digits) |
| | | Scan 4 digits from the option code chart in Appendix; then FuzzyScan will terminate this selection automatically. | |
| QR Code Max. Length | SS | Default (7089) ◆ | FIN |
| | MS | 7089-Minimum | |
| | | Scan 4 digits from the option code chart in Appendix; then FuzzyScan will terminate this selection automatically. | (4 digits) |

Configure Your FuzzyScan





PROGRAM

Symbology Reading Control

♦ Data Matrix Setting ♦



F_DEFAULT

| 11Family Code Selection | P.C | Parameter Selection | Option Code |
|-------------------------|--|---|--------------------------------------|
| Data Matrix Setting | SS SS SS SS SS SS SS SS | Disable Data Matrix Enable Data Matrix ◆ Disable Data Matrix Inverse Reading Enable Data Matrix Inverse Reading Auto Detect Data Matrix Inverse Reading ◆ Disable Data Matrix Mirror Images Enable Data Matrix Mirror Images Auto Detect Data Matrix Mirror Images | 0 1 4 5 6 7 8 9 |
| Data Matrix Min. Length | ŝŝ MS | Default (01) ◆ 01-Maximum Scan 4 digits from the option code chart in Appendix; then FuzzyScan will terminate this selection automatically. | FIN (4 digits) |
| Data Matrix Max. Length | SS MS | Default (3116) ◆ 3116-Minimum Scan 4 digits from the option code chart in Appendix; then FuzzyScan will terminate this selection automatically. | FIN (4 digits) |





Symbology Reading Control

♦ Aztec Code Setting ♦



F_DEFAULT

| Family Code Selection | P.C | Parameter Selection | Option Code |
|------------------------|----------|--|--------------------|
| Aztec Code Setting | SS SS | Disable Aztec Code Enable Aztec Code ◆ | 0 1 |
| Aztec Code Min. Length | SS MS | Default (01) ◆ 01-Maximum Scan 4 digits from the option code chart in Appendix; then FuzzyScan will terminate this selection automatically. | FIN (4 digits) |
| Aztec Code Max. Length | SS MS | Default (3832) ◆ 3832-Minimum Scan 4 digits from the option code chart in Appendix; then FuzzyScan will terminate this selection automatically. | FIN (4 digits) |

PROGRAM

Symbology Reading Control

Australian Post, US Planet, US Postnet, British Post & Japan Post Setting



Family Code Selection **Parameter Selection** P.C **Option Code** SS Disable Australian Post 0 Australian Post Setting SS Enable Australian Post SS Raw format Output 2 SS Numeric Encoding Output (N Encoding Table) 3 SS Alphanumeric Encoding Output (C Encoding Table) SS Auto-discriminate Output (Combination C & N Encoding Table) 5 SS Disable US Planet 0 **US Planet Setting** SS Enable US Planet 1 SS Disable Check Digit Transmission 2 SS Enable Check Digit Transmission 3 Disable US Postnet SS 0 **US Postnet Setting** SS Enable US Postnet 1 SS Disable Check Digit Transmission 2 SS Enable Check Digit Transmission 3 Disable British Post SS 0 **British Post Setting** SS Enable British Post 1 SS Disable Check Digit Transmission 2 SS Enable Check Digit Transmission 3 SS Disable Japan Post ♦ 0 Japan Post Setting SS Enable Japan Post 1

• Australian Post Setting: Auto-discriminate output option increase the risk of misread because the encoded data format does not specify the Encoding Table used for encoding.





Symbology Reading Control

♦ Netherlands KIX Code, Intelligent Mail & Korea Post Code Setting ♦



| Family Code Selection | P.C | Parameter Selection | Option Code |
|------------------------------|-----|-------------------------------|--------------------|
| Netherlands KIX Code Setting | SS | Disable Netherlands KIX Code | 0 |
| | SS | Enable Netherlands KIX Code | I |
| Intelligent Mail Setting | SS | Disable Intelligent Mail 🔶 | 0 |
| (USPS 4CB/One Code) | SS | Enable Intelligent Mail | 1 |
| | | | |
| Korea Post Code Setting | SS | Disable 🔶 | 0 |
| | SS | Enable | 1 |
| | | Length fixed in 6 characters. | |





Keyboard Interface Control

♦ Keyboard Layout (Language) Setting ♦



PROGRAM

| | | | — |
|-----------------------|-----|-------------------------------|--------------------|
| Family Code Selection | P.C | Parameter Selection | Option Code |
| Keyboard Layout | SS | USA (QWERTY) 🔶 | 00 |
| | SS | France (AZERTY) | 01 |
| | SS | Germany (QWERTZ) | 02 |
| | SS | United Kingdom - UK (QWERTY) | 03 |
| | SS | Canadian French (QWERTY) | 04 |
| | SS | Spain (Spanish, QWERTY) | 05 |
| | SS | Sweden/Finland (QWERTY) | 06 |
| | SS | Portugal (QWERTY) | 07 |
| | SS | Norway (QWERTY) | 08 |
| | SS | Spain (Latin America, QWERTY) | 09 |
| | SS | Italy (QWERTY) | 10 |
| | SS | Netherlands (QWERTY) | 11 |
| | SS | Denmark (QWERTY) | 12 |
| | SS | Belgium (AZERTY) | 13 |
| | SS | Switzerland-Germany (QWERTZ) | 14 |
| | SS | Iceland (QWERTY) | 15 |
| | SS | Japan (DOS/V) | 16 |
| | SS | Czech (QWERTY) | 17 |
| | 1 | | |

• Please refer to the ASCII/HEX Table listed in the Appendix to determine HEX codes for characters, symbols, and functions to be used as preamble or postamble.

• To set preamble or postamble as function key output, you must enable the "Function Key Emulation" feature as listed in page 3-25 first.

• Keyboard Interface Message String :

| Preamble | Data Length | Prefix Symbol ID | Scanned Data | Suffix Symbol ID | Postamble | Record Suffix |
|-----------------|-------------|-------------------|-----------------|-------------------|-----------------|---------------|
| 1-15 characters | 2-4 digits | 1 or 3 characters | Variable length | 1 or 3 characters | 1-15 characters | 1 character |





Keyboard Interface Control

 ♦ Record Suffix, Preamble, Postamble, FNC1 Transmit & Caps Lock ♦



| Selection Option Code 0 1 2 3 4 5, (00-7F) FIN [00-7F], [FIN] • terminate this selection. FIN |
|---|
| 1 2 3 4 5, (00-7F) FIN [00-7F], [FIN] terminate this selection. |
| 3 4 5, (00-7F) FIN [00-7F], [FIN] |
| 3 4 5, (00-7F) FIN [00-7F], [FIN] |
| 4 5, (00-7F) FIN [00-7F], [FIN] |
| terminate this selection. |
| FIN [00-7F], [FIN] terminate this selection. |
| [00-7F], [FIN] |
| terminate this selection. |
| |
| |
| FIN |
| I IN |
| [00-7F], [FIN] |
| terminate this selection. |
| |
| 0 |
| 1 |
| |
| |
| 0 |
| 1 |
| ent and DOS/V Machines only) 2 |
| |
| 0 |
| 1 |
| |
| |
| |

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- FNC1 Symbol Char. Transmit: When this function is enabled and the FNC1 is contained in scanned data, the scanner transmits the FNC1 to the host. Chart of theFNC1 is provided in Appendix- Keyboard Function Code Table. When the scanner interface is set to keyboard, the scan code is converted to corresponding key function before it is transmitted.
- The function of "Caps Lock Control" and "Key Pad Emulation" are only available for IBM PC/AT, PS/VP, PS/2 series personal computers and compatible machines. While selecting the other host interfaces, these selections don't perform the above functions for you.
- Please check the actual Caps Lock state in use while software application is running. If the Caps Lock state is off, select "Caps Lock Off" state, and then FuzzyScan will perform normal data transmission. If the Caps Lock state is on, select "Caps Lock On" state. Select "Auto Detect", FuzzyScan will perform special transmission handshaking without changing the status of Caps Lock switch.



Keyboard Interface Control

Configure Your FuzzyScan





F_DEFAULT

| Family Code Selection | P.C | Parameter Selection | Option Code |
|-----------------------|----------|---|--------------------|
| Intermessage Delay | SS MS | None 1-99 (x5) msec. Scan 2 digits from the option code chart in Appendix; then FuzzyScan will terminate this selection automatically. | FIN (2 digits) |
| Intercharacter Delay | SS MS | None 1-99 (x5) msec. Scan 2 digits from the option code chart in Appendix; then FuzzyScan will terminate this selection automatically. | FIN (2 digits) |
| Interfunction Delay | SS MS | None 1-99 (x5) msec. Scan 2 digits from the option code chart in Appendix; then FuzzyScan will terminate this selection automatically. | FIN (2 digits) |

• Intermessage Delay is a time delay between messages output by FuzzyScan. Increasing this delay will help host applications process the incoming data on time.

• Intercharacter Delay is a time delay between data characters output by FuzzyScan. These two parameters are used to synchronize data communication when : 1) the data transmission speed is too fast, characters may be skipped; 2) multitasking operation system or host computers in a network may slow down the keyboard handling; 3) various notebook or desktop PC systems require different timing parameter settings. Please always add one extra unit as safety margin when adjusting these two parameters.

• Interfunction Delay is a time delay of transmission of segments in each message string.





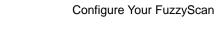
Keyboard Interface Control

♦ Emulation Setting, Key Pad Emulation & Upper/Lower Case Setting ♦



F_DEFAULT

| Family Code Selection | P.C | Parameter Selection | Option Code |
|------------------------|----------|---|-------------|
| Function Key Emulation | SS SS | Enable ASCII 00-31 code as keyboard function code output Ctrl-Output | 0 1 |
| | | Refer to Appendix – Keyboard Function Code Table for details. | |
| Key Pad Emulation | SS SS | Disable key pad emulation ◆ Enable numeric output as key pad (Num Lock On) output | 0 1 |
| Upper/Lower Case | SS SS | Normal case (neglect the upper/lower case control) Inverse case (change all characters output to inverse case) | 0 |
| | SS SS | Upper case (force all characters output as upper case) Lower case (force all characters output as lower case) | 23 |



Serial Interface Control

◆ Record Suffix, Preamble ,Postamble Setting ◆



PROGRAM

| | | | - |
|----------------------------|-----|---|--------------------|
| Family Code Selection | P.C | Parameter Selection | Option Code |
| STX/ETX Control | SS | Disable STX/ETX transmission ◆ | 0 |
| | SS | Enable STX/ETX transmission | 1 |
| | | STX/ETX are two characters used to indicate the starting and ending of the total | |
| | | data frame transmitted via serial interface. | |
| Record Suffix | SS | None | 0 |
| | SS | CR (0DH) ◆ | 1 |
| | SS | LF (0AH) | 2 |
| | SS | CRLF (0D0AH) | 3 |
| | SS | ТАВ (09Н) | 4 |
| | SS | SPACE (20H) | 5 |
| Preamble | SS | None | FIN |
| | MS | 1-15 characters | [00-7F], [FIN] |
| | | Maximum 15-character input; scan "FIN" to terminate this selection. | |
| Postamble | SS | None 🔶 | FIN |
| | MS | 1-15 characters | [00-7F], [FIN] |
| | | Maximum 15-character input; scan "FIN" to terminate this selection. | |
| FNC1 Symbol Char. Transmit | SS | Disable | 0 |
| | SS | Enable | 1 |
| | | When this function is enabled and the FNC1 is contained in scanned data, the | |
| | | scanner transmits the FNC1 to the host. Chart of the FNC1 is provided in Appendix - | |
| | | Keyboard Function Code Table. When the scanner interface is set to keyboard, the | |
| | | scan code is converted to corresponding key function before it is transmitted | |

Serial Interface Message String (RS232, USB COM) :

| STX | Preamble | Data Length | Prefix Symbol ID | Scanned Data | Suffix Symbol ID | Postamble | ETX | Record Suffix |
|-------------|-----------------|-------------|-------------------|-----------------|-------------------|-----------------|-------------|---------------|
| 1 character | 1-15 characters | 2-4 digits | 1 or 3 characters | Variable length | 1 or 3 characters | 1-15 characters | 1 character | 1 character |





Serial Interface Control

♦ Delay Setting ♦



F_DEFAULT

| Family Code Selection | P.C | Parameter Selection | Option Code |
|-----------------------|-----|---|--------------------|
| Intermessage Delay | SS | None 🔶 | FIN |
| | MS | 1-99 (x5) msec. | (2 digits) |
| | | Scan 2 digits from the option code chart in Appendix; then FuzzyScan will terminate this selection automatically. | |
| Intercharacter Delay | SS | None 🔶 | FIN |
| | MS | 1-99 (x5) msec. | (2 digits) |
| | | Scan 2 digits from the option code chart in Appendix; then FuzzyScan will terminate this selection automatically. | |
| Interfunction Delay | SS | None 🔶 | FIN |
| | MS | 1-99 (x5) msec. | (2 digits) |
| | | Scan 2 digits from the option code chart in Appendix; then FuzzyScan will terminate this selection automatically. | |

• Intermessage Delay is a time delay between messages output by FuzzyScan. Increasing this delay will help host applications process the incoming data on time.

• Intercharacter Delay is a time delay between data characters output by FuzzyScan. These two parameters are used to synchronize data communication when : 1) the data transmission speed is too fast, characters may be skipped; 2) multitasking operation system or host computers in a network may slow down the keyboard handling; 3) various notebook or desktop PC systems require different timing parameter settings. Please always add one extra unit as safety margin when adjusting these two parameters.

• Interfunction Delay is a time delay between transmission and reception of each segment of the message string.

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PROGRAM

Serial Interface Control

♦ Protocol, ACK/NAK Setting ♦



F_DEFAULT

| | | | · · · · · - · |
|-----------------------|-----|----------------------------------|---------------|
| Family Code Selection | P.C | Parameter Selection | Option Code |
| Handshaking Protocol | SS | None (free running mode) | 0 |
| | SS | RTS/CTS (hardware handshaking) | 1 |
| | SS | ACK/NAK (software handshaking) | 2 |
| | SS | Xon/Xoff (software handshaking) | 3 |
| NAK Retry Count | SS | 3 times ◆ | FIN |
| | SS | 0~255 times | (3 digits) |
| ACK Indication | SS | Disable ACK Time-out Indication | 0 |
| | SS | Enable ACK Time-out Indication ◆ | 1 |
| | SS | Disable ACK Indication ◆ | 2 |
| | SS | Enable ACK Indication | 3 |

USB COM doesn't support RTS/CTS handshaking protocol.

• When the ACK/NAK Software Handshaking option is selected, the FuzzyScan waits for an ACK (acknowledge) or NAK (not acknowledge) from the host computer after each data transmission. If the NAK is received, FuzzyScan will re-send the data until receiving ACK.'

NAK Retry Count

After transmitting data, the scanner expects a NAK response from the host up to the preset "Serial Response Time-out". If the scanner doesn't get a response, the scanner will issue an error indication and discard the data. When a NAK is received, the scanner transmits the same data again and waits for either an ACK or NAK. The scanner issues an error indication and discards the data under following two conditions:

1) After preset NAK retry counts is received within the preset serial response time-out.

2) If the preset time-out is up but the preset NAK retry counts haven't come to the end.

The default retry counts are three times. If you program "0 time", the scanner won't resend the data to the host when the scanner receives a NAK. The scanner will discard the data. If you program "255 times", the scanner can receive unlimited NAKs from the host within the pre-set serial response time-out.

This function is not available for batch mode. When you enable this function in on-line mode, the out-of-range function will be disable automatically.

ACK Indication:

Disable: There's neither LED nor beeping indication for this setting. Enable: There's a specific LED and beeping indication for this setting.



Serial Interface Control

♦ ResponseTime-out Setting, Baud Rate Setting ♦



PROGRAM

| Serial Response Time-outSSNone0Image: SSSS200 mseconds1SS500 mseconds2SS800 mseconds3SS1 second4SS2 seconds5SS3 seconds5SS3 seconds6SS4 seconds7SS5 seconds7SS5 seconds8SS8 seconds8SS8 seconds9SS10 seconds4SS9600 BPS ◆2SS9600 BPS ◆2SS400 BPS3SS1200 BPS4SS1200 BPS5 | | 1_021/1021 |
|---|----------------|-------------|
| Servar Response Hinte-out SS 200 mseconds 1 SS 500 mseconds 2 SS 800 mseconds 3 SS 1 second 4 SS 2 seconds 5 SS 2 seconds 6 SS 3 seconds 6 SS 3 seconds 7 SS 3 seconds 7 SS 5 seconds 7 SS 5 seconds 7 SS 5 seconds 7 SS 5 seconds 7 SS 10 seconds 9 SS 10 seconds 1 SS 9600 BPS ◆ 2 SS 4800 BPS 2 SS 4800 BPS 2 SS 2400 BPS 3 SS 120 BPS 3 | Selection P.C | Option Code |
| SS200 mseconds1SS500 mseconds2SS800 mseconds3SS1 second4SS2 seconds4SS2 seconds5SS3 seconds6SS3 seconds6SS4 seconds7SS5 seconds7SS5 seconds7SS5 seconds7SS5 seconds8SS8 seconds9SS10 seconds9SS10 seconds1SS9600 BPS ◆2SS4800 BPS3SS2400 BPS3SS1200 BPS5 | se Time-out SS | 0 |
| SS800 mseconds3SS1 second4SS2 seconds5SS3 seconds6SS4 seconds7SS5 seconds8SS5 seconds8SS8 seconds9SS10 seconds9SS10 seconds1SS9600 BPS ◆2SS4800 BPS3SS2400 BPS4SS120 BPS5 | SS SS | 1 |
| SS1 second4SS2 seconds5SS3 seconds66SS4 seconds77SS5 seconds8SS8 seconds99SS10 seconds99SS10 seconds11SS9600 BPS ◆22SS4800 BPS33SS2400 BPS44SS100 BPS44SS120 BPS5 | SS SS | 2 |
| SS2 seconds5SS3 seconds66SS4 seconds77SS5 seconds8SS8 seconds99SS10 seconds4Baud Rate (BPS)SS38.4K BPS60SS9600 BPS ◆22SS4800 BPS23SS2400 BPS4SS1200 BPS5 | SS SS | 3 |
| SS3 seconds6SS4 seconds7SS5 seconds8SS8 seconds9SS10 secondsABaud Rate (BPS)SS38.4K BPS0SS19.2K BPS11SS9600 BPS ◆2SS4800 BPS3SS2400 BPS4SS1200 BPS5 | SS | 4 |
| SS4 seconds7SS5 seconds8SS8 seconds9SS10 secondsABaud Rate (BPS)SS38.4K BPS0SS19.2K BPS11SS9600 BPS ◆2SS4800 BPS3SS2400 BPS3SS120 BPS5 | SS | 5 |
| SS5 seconds8SS8 seconds9SS10 secondsABaud Rate (BPS)SS38.4K BPS00SS19.2K BPS11SS9600 BPS ◆2SS4800 BPS33SS2400 BPS4SS1200 BPS5 | SS | 6 |
| SS8 seconds9SS10 secondsABaud Rate (BPS)SS38.4K BPS0SS19.2K BPS11SS9600 BPS ◆12SS4800 BPS33SS2400 BPS4SS120 BPS5 | SS | 7 |
| SS10 secondsABaud Rate (BPS)SS38.4K BPS00SS19.2K BPS11SS9600 BPS ◆22SS4800 BPS33SS2400 BPS4SS120 BPS5 | SS | 8 |
| Baud Rate (BPS) SS 38.4K BPS 00 IIIIIIIIIIIIIIIIIIIIIIIIIIIIIIIIIIII | SS | 9 |
| SS 19.2K BPS 1 SS 9600 BPS ◆ 2 SS 4800 BPS 3 SS 2400 BPS 4 SS 1200 BPS 5 | SS | А |
| SS 19.2K BPS 1 SS 9600 BPS ◆ 2 SS 4800 BPS 3 SS 2400 BPS 4 SS 120 BPS 5 | e (BPS) SS | 0 |
| SS 4800 BPS 3 SS 2400 BPS 4 SS 1200 BPS 5 | | 1 |
| SS 2400 BPS 4 SS 1200 BPS 5 | SS SS | 2 |
| SS 1200 BPS 5 | SS SS | 3 |
| | SS | 4 |
| | SS | 5 |
| SS 57.6K BPS 8 | SS | 8 |
| SS 115.2K BPS 9 | SS | 9 |

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PROGRAM

Serial Interface Control





F_DEFAULT

| TROOMAIN | | | |
|-----------------------|-----|---------------------|--------------------|
| Family Code Selection | P.C | Parameter Selection | Option Code |
| Data Frame | SS | 8, None, 1 🔶 | 0 |
| | SS | 8, Odd, 1 | 1 |
| | SS | 8, Even, 1 | 2 |
| | SS | 8, Space, 1 | 3 |
| | SS | 8, Mark, 1 | 4 |
| | SS | 8, None, 2 | 5 |
| | SS | 7, Odd, 1 | 6 |
| | SS | 7, Even, 1 | 7 |
| | SS | 7, Space, 1 | 8 |
| | SS | 7, Mark, 1 | 9 |
| | SS | 7, None, 2 | А |
| | SS | 7, Odd, 2 | В |
| | SS | 7, Even, 2 | С |

• When the RTS/CTS Hardware Handshaking option is selected, the RTS (request to send) and CTS (clear to send) signals will be issued before normal data communication. This option is very helpful to ensure the reliability of data communication.

• The Serial ResponseTime-out is a pre-defined delay time for FuzzyScan to wait for handshaking, acknowledgment or non-acknowledgment from the host computer



Wand/Laser Emulation Control (F & L Series)



♦ Output Polarity, Signal State, Margin/Module Time ♦

F_DEFAULT

| | | | I_DEI/IOEI |
|-----------------------|-----|--|-------------|
| Family Code Selection | P.C | Parameter Selection | Option Code |
| Output Polarity | SS | High level (5Vdc) on Bar (low level on Space) ◆ | 0 |
| | SS | Low level (0Vdc) on Bar (high level on Space) | 1 |
| | | Determine the output voltage level for both bar and space. | |
| Initial Signal State | SS | High Level (5Vdc) ◆ | 0 |
| | SS | Low Level (0Vdc) | 1 |
| | | Determine the initial state of output voltage level. | |
| Margin Time | SS | 10 msec. | 0 |
| | SS | 15 msec. | 1 |
| | SS | 20 msec. 🔶 | 2 |
| | SS | 25 msec. | 3 |
| | SS | 30 msec. | 4 |
| Module Time | SS | Extremely short | 0 |
| | SS | Short | 1 |
| | SS | Medium 🔶 | 2 |
| | SS | Long | 3 |
| Narrow/Wide Ratio | SS | 1:2 ◆ | 0 |
| | SS | 1:2.5 | 1 |
| | SS | 1:3 | 2 |

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PROGRAM

Wand/Laser Emulation Control (F & L Series)



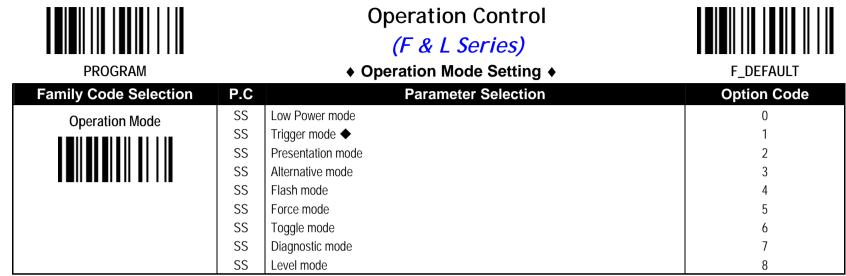
♦ Output Polarity, Signal State, Margin/Module Time ♦

F_DEFAULT

| Family Code Selection | P.C | Parameter Selection | Option Code |
|----------------------------|-----|---|-------------|
| Code 39/Code 128 Emulation | SS | Disable standard Code 39 emulation ◆ | 0 |
| | SS | Enable standard Code 39 skip emulation | 1 |
| | SS | Enable standard Code 39 replace emulation | 2 |
| | SS | Enable Full ASCII Code 39 emulation | 3 |
| | SS | Enable Code 128 emulation | 4 |

• [Code 39 Skip] : When this option is selected, all scanned data will be translated as Standard Code 39 wand/laser emulation output. If any lower case characters are read, they will be translated to upper case characters. Any other characters that are not available in Code 39 symbology set will be skipped.

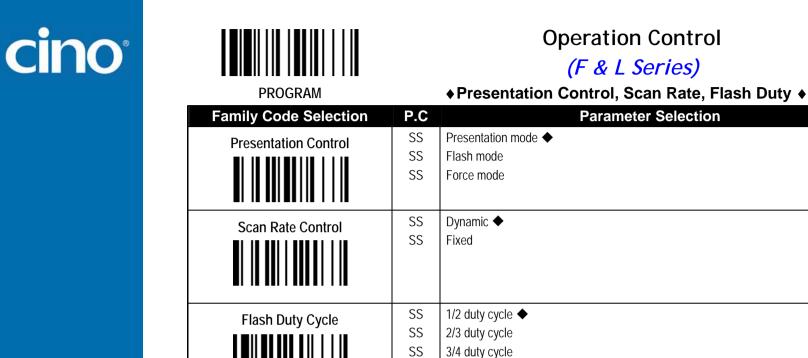
• [Code 39 Replace] : Any character not normally available in the standard Code 39 symbology set, will be translated as Space.



• Low Power Mode (Low Power Triggering): The scanner goes into idle state after scanning the bar code. You must press the trigger to wake up the scanner for operation. It is very helpful for mobile data collection and application, which are concerned with power saving.

- Trigger Mode (External Triggering): The scanner goes into standby state after scanning the bar code. You must press the trigger to turn on the light source of the scanner before scanning the bar code.
- Presentation Mode (Auto Detection): Presentation mode uses ambient light to detect the bar codes. The light source is off until the scanner detects an image which is similar to a barcode. Then the light source turns on automatically to read the bar code. If the light level in the room is not high enough, Presentation Mode may not work properly. You can choose different level of "Presentation Sensitivity" to meet your application (Please refer to the setting of "Presentation Sensitivity").
- Alternative Mode (Periodic Power Off) : The scanner keeps the light source of the scanner turned on till the pre-defined light source on time is up. After the scanner turns off the light source, you must press the trigger to turn on the light source again. After each good read, the timer counter of "Light Source on Time" is reset. For you do not have to press the trigger frequently, it is very convenient for multiple scanning.
- Flash Mode (Pulse Driven Reading): The scanner flashes the light source of the scanner without using the trigger. If the scanner detects an image which is similar to a bar code, the scanner forces on the light source automatically and scans the bar code. Flash Duty Cycle adjustment can change the frequency of the blinking.
- Force Mode (Continued Power On): The light source of the scanner is forced on for continued operation without pressing the trigger switch. This mode is convenient for high speed bar code reading.
- Toggle Mode (Repeat Reading): The toggle mode is very similar to the Alternative Mode but without the pre-defined light source on time concern. You must press the trigger to turn on the light source of the scanner to scan. The scanner keeps the light source turned on until you press the trigger again.
- Diagnostic Mode (Test Reading): This operation mode is specifically designed for diagnostic purposes. When this operation mode is selected, the light source of the scanner is force on without regard for other programmable parameters, such as reread delay, redundancy, and so forth.
- Level Mode (Auto Power Off): When this operation mode is selected, the scanner continues to turn on the light source of the scanner before a good read or pre-defined "Light Source on Time". If the scanner decodes a bar code successfully, it turns off the light source immediately. After the scanner turns off the light source, you must press the trigger to turn on the light source again. If there is no scanning operation performed during the pre-defined light source on time, the scanner enters the idle state after the pre-defined light source on time is up.
- FuzzyScan Laser model only have LED illumination (without laser aiming line) in Flash/ Force/Toggle/ Diagnostics Modes.

CINO°



SmartStand Power Off Timeout



Option Code

0

2

0

0

1

2

3

0

1

2

• Presentation Control: When the scanner is placed on SmartStand, the scanner will be switched from hand-held scanning to hands free scanning automatically. Three hands scanning modes are available. You are recommended to use flash mode or force mode while under insufficient ambient light.

L680/L780 laser imagers don't support this function.

Only available for FuzzyScan Laser model

• Scan Rate Control: The scanner will have better motion tolerance when you select "Fixed" scan rate. It's suitable for application which needs higher motion tolerance on the move. But this may impact to the reading distance.

• The Flash Duty Cycle is designed to control the flashing frequency of the light source.

SS

SS

SS

SS

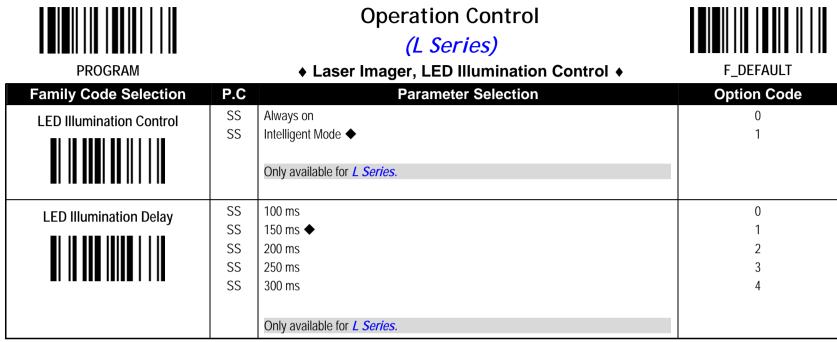
4/5 duty cycle

3 mins \blacklozenge

5 mins

10 mins

• The SmartStand Power Off Timeout is a pre-defined duration for scanner's light source on time when the scanner is placed on SmartStand. While the scanner is placed on SmartStand, the scanning-type will be switched from hand-held scanning to presentation scanning and the light source will be forced on automatically. The light source will be off when the pre-defined duration is up.



• LED Illumination Control: When you enable "always on", the LED illumination will be always on when you press the trigger. When you enable "intelligent mode", the scanner will emit the laser aiming line first, the LED illumination will be turned on after the preset LED illumination delay. Intelligent mode is recommended to be used in regular ambient light environment.

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| PROGRAM | ♦ La | Operation Control (F & L Series) aser Aiming Control , 1D Barcode Reading Direction • | F_DEFAULT |
|---|----------------------|--|---------------------|
| Family Code Selection | P.C | Parameter Selection | Option Code |
| Laser Aiming Control | SS SS | Disable Enable ◆ Only available for <i>L Series</i> . | 0 |
| 1D Barcode Forward-reading Indication | SS SS MS | None "S" User defined character(1 character) | 0 1 2 〔00-7F〕 |
| 1D Barcode Backward-reading Indication | SS SS MS | None "X" User defined character(1 character) | 0 1 2 〔00-7F〕 |
| 1D Barcode Direction Indication Transmission | SS SS SS SS | Disable ◆ Enable prefix direction mark transmission Enable suffix direction mark transmission Enable both prefix and suffix direction mark transmission | 0 1 2 3 |

• Laser Aiming Control: You can disable or enable laser aiming line when you scan PDF barcode.



| PROGRAM | • | Operation Control (A Series) Operation , Presentation and Illumination Control+ | F_DEFAULT |
|----------------------------------|--|--|---|
| Family Code Selection | P.C | Parameter Selection | Option Code |
| Operation Mode | SS SS SS SS SS SS SS SS | Low Power mode (Low power triggering) Trigger mode (External triggering) ◆ Presentation mode (Auto detection) Alternative mode (Periodic power off) Force mode (Continued power on) Toggle mode (Repeat reading) Diagnostic mode (Test reading) Level mode (Auto power off) Multiple Read Mode | 0 1 2 3 4 5 6 7 8 |
| Presentation Control | SS SS | Presentation mode ◆ Force mode | 0 1 |
| Illumination Control | SS SS | Disable Enable ◆ | 0 1 |
| Presentation Background Lighting | SS SS | LEDs Off LEDs On ◆ | 0 1 |

• Hand-Held Mode: Low power mode, Trigger mode, Alternative mode, Toggle mode, Level mode, Multiple read mode

• Hand-Free Mode: Presentation mode, Force mode, Diagnostic mode

• The **Illumination Control** is only available for hand-held mode.

• Presentation Background Lighting Control: You can enable or disable presentation background lighting of the scanner according to the ambient light condition in presentation mode. When the ambient light is dim or dark, you can enable this function to turn on the scanner's LED illumination at a dim level. This is helpful for scanner to detect the motion of scene.



| ♦ Air | Operation Control <i>(A Series)</i> ning Control, Delay Aiming & Decode Aiming Control • | F_DEFAULT |
|-------|--|--|
| P.C | Parameter Selection | Option Code |
| SS | Regular Aiming | 0 |
| SS | Intelligent Aiming 🔶 | 1 |
| SS | Delay Aiming Control | 2 |
| | | |
| SS | 200 ms | 0 |
| SS | 400 ms ◆ | 1 |
| SS | 800 ms | 2 |
| SS | 1 sec | 3 |
| SS | 1.5 secs. | 4 |
| SS | 2 secs. | 5 |
| SS | 3 secs. | 6 |
| SS | 4 secs. | 7 |
| SS | Disable in Hand-Held mode | 0 |
| SS | Enable in Hand-Held mode 🔶 | 1 |
| | Disable in Hand-Free mode | 2 |
| 55 | Enable in Hand-Free mode | 3 |
| | P.C SS SS SS SS SS SS SS SS SS S | (A Series) • Aiming Control, Delay Aiming & Decode Aiming Control ◆ P.C Parameter Selection SS Regular Aiming SS Intelligent Aiming ◆ SS Delay Aiming Control SS Delay Aiming Control SS 200 ms SS 400 ms ◆ SS 800 ms SS 1 sec SS 1 secs. SS 2 secs. SS 3 secs. SS 4 secs. SS Disable in Hand-Held mode SS Disable in Hand-Free mode |

• The Aiming Control is only available for trigger mode. In Intelligent Aiming, the aiming light is turned on when the scanner is lifted. A trigger pull activates decoding process. After 2 seconds of inactivity, the aiming light will be shut off. Delay Aiming Control allows a delay time for the operator to aim the scanner before the image is taken. During the delay time, the aiming light will be on, but the LED illumination won't be turned on until the delay time is up.

• The Delay Aiming Time-out Control is only available for trigger mode. You can use Delay Aiming Time-out Control to set the delay time.

Operation Control

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| PROGRAM | | <i>(A Series)</i> Center Alignment, Unique Bar Code Reporting + | F_DEFAULT | |
|---------------------------|-----|--|-------------|--|
| Family Code Selection | P.C | Parameter Selection | Option Code | |
| Center Alignment | SS | Disable in Hand-Held Mode ◆ | 0 | |
| | SS | Enable in Hand-Held Mode | 1 | |
| | SS | Disable in Hand-Free Mode ◆ | 2 | |
| | SS | Enable in Hand-free Mode | 3 | |
| Unique Bar Code Reporting | SS | Disable ◆ | 0 | |
| | SS | Enable | 1 | |

• Center Alignment: When this function is enabled, the scanner only decodes barcode(s) around aiming line.

• Unique Bar Code Reporting: When this function is enabled, the scanner only outputs unique barcode when the trigger is pressed. This function is workable when Multiple Read mode is selected.

Operation Control (A Series) Batch Reading + PROGRAM **F DEFAULT** Family Code Selection P.C **Parameter Selection Option Code** SS None [FIN] **Batch Reading** Batch Reading rule input (01-16 rules) [Rules] [FIN]

• Batch Reading: When this function is enabled, you can scan multiple barcodes one by one continuously upon one trigger event. The scanner reports a good read beep and indication only if all bar codes set by the "Batch Reading Rule" are read. Otherwise, the scanner reports an error beep and indication. The scanned data will be transmitted according to the preset sequence which is defined in "Batch Reading Rule" regardless the scanned order of those barcodes.

- Batch Reading function is only available Trigger Mode.
- Batch Reading is not available when Multiple Read Mode or Center Alignment is turned on.

Batch Reading Rule:

- To set the Batch Reading rule
 - 1.Scan the PROGRAM symbol.
 - 2.Scan the Batch Reading symbol (Family Code).
 - 3. Use the **Option Code** to define the preset Batch Reading rule.
 - 4.Scan the FIN symbol.
 - 5.Scan the END symbol to save your Batch Reading rule.
 - Note: Scan the ABORT and END symbol to exit without saving any Batch Reading rule setting.
- When you scan "None", the preset Batch Reading Rule will be cancelled.
- Batch Reading Rule Syntax:
 - [n] [Element 1] FF [Element 2] FF [Element 3] FF ...[Element n] FF

Where n is the number of elements in the overall rule. The number of elements is up to 16.FF indicates the end of one element.

- Element structure:

[Cino ID Hex value] [Code length] [Character match(es)] Where:

- [Cino ID Hex value]
 - Length: 2 byte

Please find Cino ID hex value from Symbology ID Table in appendix. Locate the Hex value for the symbology and scan the 2 digit hex values from the Option Code.

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Note: 99 is the universal number, indicating all symbologies.

cino

cino

• [Code length]

Length: 4 byte

Specify what length of data output will be acceptable for this symbology. When you calculate the length, you must consider the whole data string which includes the programmed Preamble, Postamble, Scanned Data Length, Prefix/Suffix Symbol ID or AIM ID. Scan the four digit data length from the **Option Code**. Note: 40 characters is entered as 0040; 9999 is a universal number, indicating all lengths.

• [Character match]

Length: 2-8 byte

You can refer to HEX/ASCII Reference Table to find the Hex value that represents the character(s) you want to match. Use the Option Code to scan the alphanumeric combination that represents the ASCII characters. You can match up to 4 characters which are counted from the start character of the whole Data String.

Note: When setting the matched character(s), you must match the content of the whole Data String, including the programmed Preamble, Postamble, Scanned Data Length, Prefix/Suffi Symbol ID OR AIM ID if you had defined. FF is the universal character, indicating all characters.

- Batch Reading rule example

In this example, you are scanning Code 39, Code 128, and Code 93 bar codes, but you would like to output the data in following sequence: Code 128 - Code 39 - Code 93



B-CODE39



A-CODE128



C-CODE93

Configure Your FuzzyScan

cino

You would set up the Batch Reading rule with the following command line: [PROGRAM] [Batch Reading] [0301999941FF07999942FF09999943FF] [FIN] [END] The breakdown of the command line is shown below: 03 The number of elements in the overall rule 01 Code identifier of Code 128 9999 Code length that must match for Code 128, 9999 = all lengths Start character match for Code 128, 41h = "A" 41 FF End of first code 07 Code identifier of Code 39 Code length that must match for Code 39, 9999 = all lengths 9999 42 Start character that must match for Code 39, 42h = "B"

- FF End of second code
- 09 Code identifier of Code 93
- 9999 Code length that must match for Code 93, 9999 = all lengths
- 43 Start character match for Code 93, 43h = "C"
- FF End of third code

To program the previous example using specific lengths, you would have to count the programmed Preamble, Postamble, Scanned Data Length, Prefix/Suffix Symbol ID OR AIM ID if you had defined as part of the length. If you enable the Suffix Symbol ID of symbology, you would add one character to the previous example's length.

You would set up the Batch Reading rule with the following command line:

[PROGRAM] [Batch Reading] [0301001041FF070009FF09000943FF] [FIN] [END]

Configure Your FuzzyScan

cino

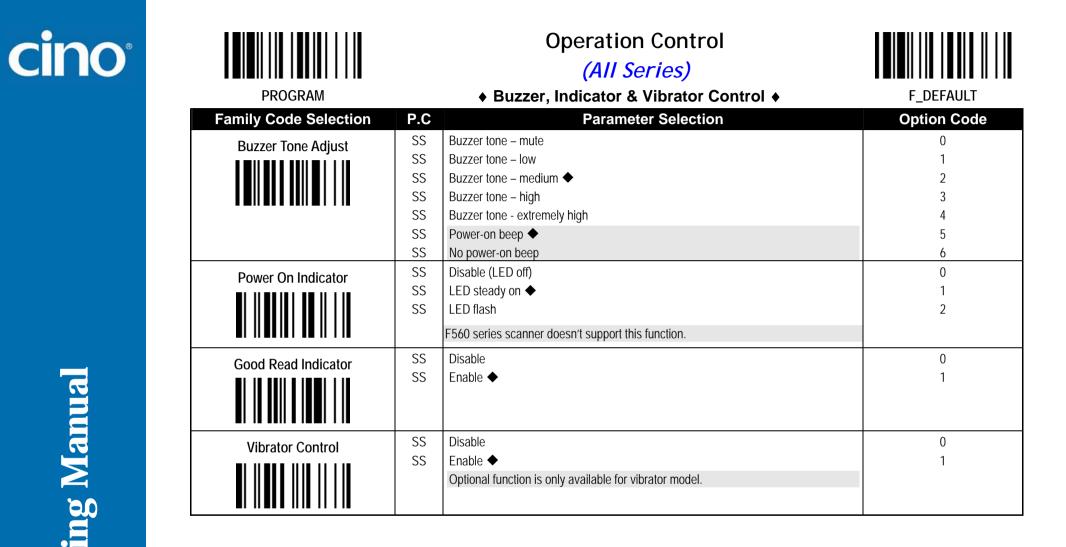
The breakdown of the command line is shown below:

| 03 | The number of elements in the overall rule |
|------|--|
| 01 | Code identifier of Code 128 |
| 0010 | Code length that must match for Code 128 A-CODE128 sample length (9) plus Suffix Symbol ID (1) = 10 |
| 41 | Start character match for Code 128, 41h = "A" |
| FF | End of first code |
| 07 | Code identifier of Code 39 |
| 0009 | Code length that must match for Code 39 B-CODE39 sample length (8) plus Suffix Symbol ID (1) = 9 |
| FF | Universal matched character, indicating all character Also indicate end of second code |
| 09 | Code identifier of Code 93 |
| 0009 | Code length that must match for Code 93 C-CODE93 sample length (8) plus Suffix Symbol ID (1) = 9 |
| 43 | Start character match for Code 93, 43h = "C" |
| FF | End of third code |

Note: If the [Character match(es)] is set to "FF", the following "FF" which indicated the end of the code was not need to set.

- Structure of Data String

| STX (RS232/USE | СОМ | Preamble | Scanned Data Length | Prefix Symbol ID Or | Scanned Data modified by DataWizard | Suffix Symbol ID Or | Postamble | ETX (RS232/USB COM |
|-------------------|------|-----------------|------------------------|------------------------|--|------------------------|-----------------|-----------------------|
| interface |) | | | Prefix AIM Symbol ID | | Suffix AIM Symbol ID | | interface) |
| 1 chara | cter | 1-15 characters | 2-4 digits | 1 or 3 characters | Variable length | 1 or 3 characters | 1-15 characters | 1 character |





| | | Operation Control (All Series) | |
|----------------------------|-----|--|-------------|
| PROGRAM | ♦ D | ollar Sign, Redundancy & 1D Code Inverse Reading 🔶 | F_DEFAULT |
| Family Code Selection | P.C | Parameter Selection | Option Code |
| Dollar Sign Control | SS | Dollar sign output as " \$ " 🔶 | 0 |
| | SS | Dollar sign output as " Ψ " | 1 |
| | SS | Dollar sign output as " € " | 2 |
| | SS | Dollar sign output as " £ " | 3 |
| | SS | Dollar sign output as " ¢ " | 4 |
| Redundancy | SS | None | 0 |
| | SS | Level 1 🔶 | 1 |
| | SS | Level 2 | 2 |
| | SS | Level 3 | 3 |
| | SS | Level 4 | 4 |
| | SS | Level 5 | 5 |
| | | To prevent potential miss reading. | |
| 1D Parcodo Inverso Deading | SS | Disable 🔶 | 0 |
| 1D Barcode Inverse Reading | SS | Enable | 1 |

• The **Redundancy** is the number of times the same bar code label has to be decoded before it is transmitted.



| PROGRAM | | Operation Control <i>(All Series)</i> • Reread Delay & Good Read Delay Control • | F_DEFAULT |
|----------------------------|-----|--|--------------------|
| Family Code Selection | P.C | Parameter Selection | Option Code |
| Reread Delay | SS | Disable | 0 |
| (Double Scan Verification) | SS | Immediate time out 🔶 | 1 |
| | SS | Short time out | 2 |
| | SS | Medium time out | 3 |
| | SS | Long time out | 4 |
| | SS | Force verification | 5 |
| Good Read Delay | SS | None 🔶 | 0 |
| | SS | 200 msec. | 1 |
| | SS | 500 msec. | 2 |
| | SS | 1 sec. | 3 |
| | SS | 1.5 sec. | 4 |
| | SS | 2 sec. | 5 |
| | SS | 3 sec. | 6 |

• The Reread Delay (Double Scan Verification) is designed to inhibit FuzzyScan from reading the same bar code label twice in pre-defined short duration. Force Verification will not allow reading of the same bar code twice.

• This Good Read Delay is the minimum amount of time before the imager can read another bar code.



| PROGRAM | | Operation Control <i>(All Series)</i> | F_DEFAULT |
|--|-----|--|-------------|
| Family Code Selection | P.C | Parameter Selection | Option Code |
| Light Source On Time | SS | Short 🔶 | 0 |
| | SS | Medium | 1 |
| | SS | Long | 2 |
| | SS | Extremely long | 3 |
| Hands Free Time-out | SS | Short ◆ | 0 |
| | SS | Medium | 1 |
| | SS | Long | 2 |
| | SS | Extremely long | 3 |
| | SS | Disable | 4 |
| Good Read Duration | SS | Short | 0 |
| | SS | Medium 🔶 | 1 |
| | SS | Long | 2 |
| | SS | Extremely long | 3 |
| | SS | Extremely short | 4 |
| Time Delay to Low Power Mode | SS | 1 sec | 0 |
| | SS | 3 secs | 1 |
| | SS | 5 secs | 2 |
| | SS | 7 secs | 3 |
| | SS | 9 secs | 4 |
| - The Linkt Course On Time is a use defi | SS | Immediate | 5 |

• The Light Source On Time is a pre-defined light source time out counter for Alternative Mode, Presentation Mode and Level Mode. The scanner keeps the light source on till the pre-defined light source on time is up. You can adjust this parameter to meet your own application requirement.

• The Presentation Mode, Force Mode and Flash Mode are referred to as "hands free" mode. The hands free mode will be automatically changed to manual trigger mode when you press the trigger. You can remain the scanner in manual trigger mode by setting the Hands Free Time-Out. Once the time-out duration is up (if there's no any trigger operation), the imager will revert to the original hands free mode.

• The Time Delay to Low Power Mode sets the time for scanner to enter low power mode after any scanning activity. This setting is only available for the scanner is in low power mode.



| | | Operation Control (All Series) | |
|--------------------------|--|---|---------------------------------|
| PROGRAM | | Presentation Auto-Sense & Sensitivity + | F_DEFAULT |
| Family Code Selection | P.C | Parameter Selection | Option Code |
| Presentation Auto-sense | SS SS | Disable Enable ◆ | 0 1 |
| Presentation Sensitivity | SS SS SS SS SS SS SS | Level 1 Level 2 Level 3 Level 4 Level 5 ◆ Level 6 Level 7 | 0 1 2 3 4 5 6 |

When enabling the Presentation Auto-sense, the scanner can be switched from hand-held and hand-free scanning automatically when working with the SmartStand.

•The presentation sensitivity is used to configure the sensitivity level when the scanner is set as presentation mode. The higher lever means higher sensitivity for detecting the barcode.



Condensed DataWizard

♦ Preamble, Postamble, Data Length & Symbol ID Trans. ♦



PROGRAM

| | | | 1_021/1021 |
|---------------------------|-----|---|----------------|
| Family Code Selection | P.C | Parameter Selection | Option Code |
| Preamble | SS | None | FIN |
| | MS | 1-15 characters | [00-7F], [FIN] |
| | | Maximum 15-character input; scan "FIN" to terminate this selection. | |
| Postamble | SS | None | FIN |
| | MS | 1-15 characters | [00-7F], [FIN] |
| | | Maximum 15-character input; scan "FIN" to terminate this selection. | |
| Data Length Transmission | SS | Disable 🔶 | 0 |
| | SS | Enable 2~4 digits data length transmission | 1 |
| Symbology ID Transmission | SS | Disable symbology ID transmission ◆ | 0 |
| | SS | Enable prefix symbology ID transmission | 1 |
| | SS | Enable suffix symbology ID transmission | 2 |
| | SS | Enable both prefix and suffix symbology ID transmission | 3 |
| | SS | Enable prefix AIM symbology ID transmission | 4 |
| | SS | Enable suffix AIM symbology ID transmission | 5 |
| | SS | Enable both prefix and suffix AIM symbology ID transmission | 6 |

• DataWizard is the most powerful, Artificial-Intelligence based data editing expert system provided specially for the FuzzyScan family bar code readers. Through DataWizard, you can process the scanned data prior the transmissions in many ways as: Insert, Delete, Match, Verify, Replace, Reorganize, and Repeat Transmission. It will help you to arrange the transmission of scanned data to any specific format without software modification.

• Due to the resources used by this system, Full-feature DataWizard is only supported by PowerTool. Through the PowerTool, all settings and configurations can be done on-screen on Windows 2000 / XP / 7

- A Condensed Version DataWizard is provided by each FuzzyScan series. Through this menu, the condensed DataWizard can be utilized via bar code menu readings with ease.
- Please note that all "Character" input should be referred to the ASCII/HEX Table listed in Appendix to find matched HEX value.
- If you have any problem to use DataWizard, please refer to following pages for details and consult your local FuzzyScan vendor or our web site for any assistance.



| | | 11 | |
|--|--|----|--|
| | | 11 | |
| | | 11 | |
| | | | |

PROGRAM

Condensed DataWizard

♦ Data Formatter Setting ♦



F_DEFAULT

| | | | | I _DEIMOEI |
|-----------------------|-----|---|--------------------|-------------------------|
| Family Code Selection | P.C | Parameter Selection | Option Code | 2nd Option Code |
| Formatter Control | SS | Disable 🔶 | FIN | |
| | MS | Select one bar code symbology | (2 digits) | automatic termination |
| | MS | Select all bar code symbologies | 00 | automatic termination |
| | | | | |
| 1st Insertion | SS | Disable 🔶 | FIN | |
| | DS | Enable | (2 digits) | [1-3 characters], [FIN] |
| | | | position | |
| | | 2-digits identified position; max. 3 insertion characters | | |
| 2nd Insertion | SS | Disable 🔶 | FIN | |
| | DS | Enable | (2 digits) | [1-3 characters], [FIN] |
| | | | position | |
| | | 2-digits identified position; max. 3 insertion characters | | |
| 3rd Insertion | SS | Disable 🔶 | FIN | |
| | DS | Enable | (2 digits) | [1-3 characters], [FIN] |
| | | | position | |
| | | 2-digits identified position; max. 3 insertion characters | | |
| 4th Insertion | SS | Disable | FIN | |
| | DS | Enable | (2 digits) | [1-3 characters], [FIN] |
| | | | position | |
| | | 2-digits identified position; max. 3 insertion characters | | |

• The Data Formatter is used to edit the scanned raw data prior to transmitting the data to the host computers or terminals. It allows you to select desired bar code symbologies for formatter control, and provides Multiple Position Insertion and Multiple Character Insertion (max three characters) in the identified position.

• While the Data Formatter is enabled, it arranges only scanned data without **Preamble**, **Postamble**, **STX**, **ETX**, **Data Length**, **Prefix/Suffix Symbology ID** or **Record Suffix**. All of the above programmable parameters perform the same function depending on your setting.

• Regarding the "Bar Code Selection" and "Position Calculation" of data formatter, please refer to page 45 for details.

• Please note that all "Character" input should be referred to the ASCII/HEX Table listed in Appendix to find matched HEX value.





Condensed DataWizard

♦ Data Verifier Setting ♦



PROGRAM

| Family Code Selection | P.C | Parameter Selection | Option Code | 2nd Option Code |
|--------------------------|-----|--|--------------------|-----------------------|
| Verifier Control | SS | Disable 🔶 | FIN | |
| | MS | Select one bar code symbology | (2 digits) | automatic termination |
| | MS | Select all bar code symbologies | 00 | automatic termination |
| Identified Data Length | SS | Disable 🔶 | FIN | |
| | DS | Enable | (2 digits) | |
| | | Determine the identified data length for verification. | | |
| 1st Identified Character | SS | Disable ◆ | FIN | |
| | DS | Enable | (2 digits) | [00-7F] |
| | | | position | |
| | | 2-digits checking position; 1 identified character | | |
| 2nd Identified Character | SS | Disable 🔶 | FIN | |
| | DS | Enable | (2 digits) | [00-7F] |
| | | | position | |
| | | 2-digits checking position; 1 identified character | | |
| 3rd Identified Character | SS | Disable 🔶 | FIN | |
| | DS | Enable | (2 digits) | [00-7F] |
| | | | position | |
| | | 2-digits checking position; 1 identified character | | |

• The Data Verifier is used to provide advanced verification for error-free scanning and to work as an Embedded Data Transmitting Filter.

• All data must conform to the Identified Bar Code Symbologies, Identified Data Length, and one to three Identified Characters in the checking position. Otherwise, the FuzzyScan will not transmit the data to the host computers or terminals, but will instead issue 3 long beeps for verification error and skip the scanned data.

• The Data Verifier checks only scanned data without Preamble, Postamble, STX, ETX, Data Length, Prefix/Suffix Symbology ID or Record Suffix.

• Regarding the "Bar Code Selection" and "Position Calculation" of Data Verifier, please refer to page 45 for details.

• Please note that all "Character" input should be referred to the ASCII/HEX Table listed in Appendix to find matched HEX value.





PROGRAM

Condensed DataWizard

♦ Data Replacer Setting ♦



F_DEFAULT

| | 1st Replacement |
|--------------------|--|
| | 2nd Replacement |
| lanua | 3rd Replacement |
| an nming M | The Data Replacer is used symbologies for replacer contri- All data must conform to the arranges only scanned data w Regarding the "Bar Code Sel- Please note that all "Character |
| FuzzySc Progran | |

| Family Code Selection | P.C | Parameter Selection | Option Code | 2nd Option Code |
|-----------------------|-----|---|--------------------|-----------------------|
| Replacer Control | SS | Disable 🔶 | FIN | |
| | MS | Select one bar code symbology | (2 digits) | automatic termination |
| | MS | Select all bar code symbologies | 00 | automatic termination |
| | | | | |
| 1st Replacement | SS | Disable 🔶 | FIN | |
| | DS | Enable | (2 digits) | [00-7F] |
| | | 2-digits identified position; 1 replacement character | position | |
| 2nd Replacement | SS | Disable 🔶 | FIN | |
| | DS | Enable | (2 digits) | [00-7F] |
| | | 2-digits identified position; 1 replacement character | position | |
| 3rd Replacement | SS | Disable 🔶 | FIN | |
| | DS | Enable | (2 digits) | [00-7F] |
| | | 2-digits identified position; 1 replacement character | position | |

• The Data Replacer is used to edit the scanned raw data prior to transmitting the data to the host computers or terminals. It allows you to select desired bar code symbologies for replacer control, and provides Multiple Position Replacement in the identified position.

• All data must conform to the Identified Bar Code Symbologies, and one to three Identified Characters in the identified position. While the Data Replacer is enabled, it arranges only scanned data without Preamble, Postamble, STX, ETX, Data Length, Prefix/Suffix Symbology ID or Record Suffix.

Regarding the "Bar Code Selection" and "Position Calculation" of Data Replacer, please refer to page 45 for details.

Please note that all "Character" input should be referred to the ASCII/HEX Table listed in Appendix to find matched HEX value.

Configure Your FuzzyScan

Condensed DataWizard

♦ Data Organizer Setting ♦



F DEFAULT

| | Organizer Control | 33 | |
|--------------------------|---|---|--|
| | | MS MS | Select one bar code syn Select all bar code sym |
| | 1st Organization | SS DS | Disable ◆ Enable |
| | | | 2-digits identified position Forward/backward data |
| | 2nd Organization | SS | Disable |
| | | DS | Enable 2-digits identified position Forward/backward data |
| mual | Include/Exclude Control | SS DS | Transmitted data exclud Transmitted data includ |
| zyScan gramming Manua | The Data Organizer is used to edit the symbologies for organizer control, and including or excluding the data of iden While the Data Organizer is enabled, in Suffix. Regarding the "Bar Code Selection" are Please note that all "Character" input shorts. | provides r htification it arrange nd " Positi e | maximum two identified p position. Please refer to the s only scanned data with on Calculation" of Data (|

PROGRAM

| Family Code Selection | P.C | Parameter Selection | Option Code | 2nd Option Code |
|--|----------------|--|--|--|
| Organizer Control | SS MS MS | Disable ◆ Select one bar code symbology Select all bar code symbologies | FIN (2 digits) 00 | Automatic termination Automatic termination |
| 1st Organization | SS DS | Disable ← Enable 2-digits identified position; Forward/backward data transmission setting | FIN (2 digits) position direction | 0 (Forward) ◆ 1 (Backward) |
| 2nd Organization | SS DS | Disable ← Enable 2-digits identified position; Forward/backward data transmission setting | FIN (2 digits) position direction | 0 (Forward) ◆ 1 (Backward) |
| Include/Exclude Control | SS DS | Transmitted data excluded the data of identified position ◆ Transmitted data included the data of identified position | 0 1 | |
| The Data Organizer is used to edit th | no scann | d raw data prior to transmitting the data to the bost computer | s or torminals. It allows | s you to soloct desired har con |

ansmitting the data to the host computers or terminals. It allows you to select desired bar code positions to send the data forward or backward. It also allows you to control the transmitted data the application example listed in page 45 for details.

ithout Preamble, Postamble, STX, ETX, Data Length, Prefix/Suffix Symbology ID or Record

Organizer, please refer to page 45 for details.

X Table.

cino

Select a Bar Code Symbology

You can select one or all types of bar code symbologies to use Condensed DataWizard for advanced transmission arrangement. If you scan "00" to select all types, the FuzzyScan will arrange all incoming data to meet your pre-defined format. If you want to select only one type bar code, please select one of the option code listed below.

| 1D Bar Code Symbology | | | | | |
|--------------------------|----|----------------------------|----|--|--|
| Code 128 | 01 | Matrix 2 of 5 | 38 | | |
| GS1-128 | 31 | Interleaved 2 of 5 | 48 | | |
| UPC-A | 02 | China Postal Code | 58 | | |
| UPC-A with 2 supplement | 32 | German Postal Code | 68 | | |
| UPC-A with 5 supplement | 42 | Standard/Industrial 2 of 5 | 08 | | |
| UPC-E | 03 | Code 93 | 09 | | |
| UPC-E with 2 supplement | 33 | Code 11 | 10 | | |
| UPC-E with 5 supplement | 43 | MSI/Plessey | 11 | | |
| EAN-13 | 04 | UK/Plessey | 12 | | |
| EAN-13 with 2 supplement | 34 | Telepen | 13 | | |
| EAN-13 with 5 supplement | 44 | GS1 DataBar | 14 | | |
| EAN-8 | 05 | GS1 DataBar Limited | 22 | | |
| EAN-8 with 2 supplement | 35 | GS1 DataBar Expanded | 23 | | |
| EAN-8 with 5 supplement | 45 | Composite Codes | 24 | | |
| Codabar/NW-7 | 06 | IATA | 15 | | |
| Code 39 | 07 | Coupon Code | 16 | | |
| Code 32 | 37 | PDF417 | 17 | | |
| Trioptic Code 39 | 47 | Micro PDF417 | 25 | | |
| | | Codablock F | 18 | | |
| | | Code 16K | 19 | | |
| | | Code 49 | 20 | | |

| 2D Bar Code Symbology | | | | | |
|------------------------|----|-----------------------|----|--|--|
| QR Code A0 MaxiCode A2 | | | | | |
| MicroQR Code | A0 | Aztec Code | A3 | | |
| DataMatrix | A1 | Chinese Sensible Code | A4 | | |
| GS1 DataMatrix | A5 | | | | |

| Postal Code | | | | | | | | |
|--------------------------|----|---------------|----|--|--|--|--|--|
| Korea Post Code | 21 | Japanese Post | B4 | | | | | |
| Australian Post | B0 | KIX Post | B5 | | | | | |
| British Post | B1 | Planet Code | B6 | | | | | |
| Intelligent Mail barcode | B3 | Postnet | B8 | | | | | |

Position Calculation [Data Formatter]

If there is a 5-character input data string, refer to the following to calculate the actual position for insertion:

| | | Х | | Х | | Х | | Х | | Х | |
|---|----|---|----|---|----|---|----|---|----|---|----|
| (| 00 | | 01 | | 02 | | 03 | | 04 | | 05 |

[Data Verifier, Data Replacer, Data Organizer]

If there is a 11-character data string, please refer to the following to calculate the actual position for identification.

| Х | Х | Х | Х | Х | Х | Х | Х | Х | Х | Х |
|----|----|----|----|----|----|----|----|----|----|----|
| 00 | 01 | 02 | 03 | 04 | 05 | 06 | 07 | 08 | 09 | 10 |

Application Example

If your bar code label is a 16-digit Interleaved 2 of 5 which includes the information of 6-digit date code, 6-digit serial number and 4-digit unit price, you want the FuzzyScan do the following for you without software modification:

- Apply only Interleaved 2 of 5 to the condensed DataWizard.
- Check bar code is actually with 16-digit length.
- Allow bar code output whose date code is leading with "9".
- Three outputs with "TAB" suffix.
- The date code output should skip "9" and replaced it by "A".
- The serial number output should be led with "SN".
- The unit price output should be skipped the first 2 digits.
- Test Bar Code : <u>9810251234569876</u>
 Actual Output : A81025[TAB]SN123456[TAB]76[TAB]

Programming Procedure [Data Verifier]

- Scan "Program" to enter the programming mode.
- Scan "Verifier Control" and set bar code symbology to "48" (Interleaved 2 of 5).
- Scan "Identified Data Length" and set the length to "16".
- Scan "1st Identified Character" and set the identified position to "00", then set the identified character to "39" (Hex Code of 9).

[Data Formatter]

- Scan "Formatter Control" and set bar code symbology to "48".
- Scan 1st Insertion" and set the identified position to "06", then inserted characters to "09" (Hex Code of TAB), "53" (Hex Code of S), "4E" (Hex Code of N).
- Scan "2nd Insertion" and set the identified position to "12", then inserted character to "09". In the final, you must scan "FIN" (Finish) code to terminate this selection.

Scan "3rd Insertion" and set the identified position to "16", then inserted character to "09". In the final, you must scan "FIN" (Finish) code to terminate this selection.

 Scan "1st Replacement" and set the identified position to "00", then replaced character to "41" (Hex Code of A).

Scan "Replacer Control" and set bar code symbology to

[Data Organizer]

[Data Replacer]

"48".

- Scan "Organizer Control" and set bar code symbology to "48".
- Scan "1st Organization" and set the identified position to "16", then set the data transmission to "0" (forward).
- Scan "2nd Organization" and set the identified position to "17", then set the data transmission to "1" (backward).
- Scan "END" (Exit) to terminate the programming.

[Important Notice]

Please note that Condensed DataWizard will follow the preset working flow as below:

Verifier >>> Formatter >>> Replacer >>>> Organizer

So when you set the identified position in Data Organizer, you must consider the inserted data which you already set via Data Formatter.

Symbology ID Table

Each AIM Code Identifier contains the three-character string **]cm** where:] = Flag Character; c = Code Character; m = Modifier Character

| | | | | 1 | ID Symbolog | y ID Table | | | | | |
|-------------|---|-------------------------------|--------------|---------------|-------------------|---|----------------------------------|--------------|-----------|---------------|------------------|
| | | Cin | o ID | A | IM ID | | | Cin | o ID | A | IM ID |
| Code Family | Primary Format | Hex Value | Char. | Code Char. | Modified Char. | Code Family | Primary Format | Hex Value | Char. | Code Char. | Modifie Char. |
| | UPC-A | 2 | | | 0 | | EAN/JAN-8 | 05 | | | 4 |
| | UPC-A with 2 supple. | 32 | А | | 1 | | EAN/JAN-8 with 2 supple. | 35 | N | E | 1 |
| | UPC-A with 5 supple. | 42 | | - | 2 | | EAN/JAN-8 with 5 supple. | 45 | | | 2 |
| UPC | UPC-E | 3 | | E | 0 | EAN/JAN | EAN/JAN-13 | 04 | | | 0 |
| 010 | UPC-E with 2 supple. | 33 | E | | 1 | | EAN/JAN-13 with 2 supple. | 34 | F | E | 1 |
| | UPC-E with 5 supple. | 43 | | | 2 | | EAN/JAN-13 with 5 supple. | 44 | | | 2 |
| | Example: A UPC-A bar code 0 transmitted as]E0 0123456789 | 123456789 50]E1 12 | 950 with 2 s | supplement | | Example: A EAN/JAN-8 bar code 49123562 with 5 supplement 12345 is transmitted as]E4 49123562]E2 12345 | | | | | |
| 0-1-100 | Code 128 | 01 | В | 0 | m | Code 93 | Code 93 | 09 | Н | G | m |
| Code 128 | GS1-128 | 31 | С | С | 1 | Code 11 | Code 11 | 10 | Р | Н | m |
| Codabar | Codabar/NW-7 | 06 | D | F | m | MSI/Plessey | MSI/Plessey | 11 | R | М | m |
| | Standard/Industrial 2 of 5 | 08 | I | S | 0 | UK/Plessey | UK/Plessey | 12 | S | Р | 0 |
| | Matrix 2 of 5 | 38 | К | Х | 0 | Telepen | Telepen | 13 | Т | В | m |
| | Interleaved 2 of 5 | | | | | | GS1 Databar | 14 | | | |
| 0-1-25 | | 48 | J | I | m | GS1 DataBar | GS1 DataBar Limited | 22 | V | | |
| Code 25 | | | | | | | GS1 DataBar Expanded | 23 | Х | е | m |
| | Ohina Daatal Gada | 50 | | V | 0 | Composite | Composite Code | 24 | | | |
| | China Postal Code | 58 | L | Х | 0 | | Code 39 | 07 | G | А | m |
| | German Postal Code | 68 | М | I | m | Code 39 | Code 39 Trioptic | 47 | W | Х | 0 |
| IATA | IATA | 15 | 0 | R | m | | Code 32 | 37 | G | А | 0 |
| | UCC Coupon Code | - | 7 | | | PDF417 | PDF417 | 17 | Ň | | |
| | | | <u>7</u> | | | | Micro PDF417 | 25 | V | L | m |
| UCC Coupon | Example : A UPC-A 51234567 | | | | 97 bar code | Codablock | Codablock F | 18 | Y | 0 | m |
| | is transmitted as]E0512345678 | - | | | 007 h | Korea Post | Korea Post Code | 21 | а | Х | 0 |
| | Example: A EAN-13 99234567 is transmitted as]E099234567 | | | | 297 par code | Remark: Above | e examples are given for the tra | nsmission | of AIM ID | • | • |

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| | 2D Symbology ID Table | | | | | | | | | | | | | |
|---------------------|-----------------------|--------------|-------|---------------|-------------------|-----------------------------|--------------------------|--------------|-------|---------------|-------------------|--|--|--|
| | Primary Format | Cino ID | | A | IM ID | | | Cin | o ID | AI | M ID | | | |
| Code Family | | Hex Value | Char. | Code Char. | Modified Char. | Code Family | Primary Format | Hex Value | Char. | Code Char. | Modified Char. | | | |
| QR Code | QR Code | | | | | British Post | British Post | B1 | h | | 0 | | | |
| Micro QR Code | Micro QR Code | A0 | b | Q | Q m | Intelligent Mail barcode | Intelligent Mail barcode | B3 | j | | 0 | | | |
| Data Matrix | Data Matrix | A1 | C | d | £ | Japanese | Japanese Post | B4 | k | x | 0 | | | |
| | GS1 Data Matrix | A5 | С | u | m | Post | Japanese rusi | D4 | ĸ | | 0 | | | |
| MaxiCode | MaxiCode | A2 | d | U | m | KIX Post | KIX Post | B5 | I | | 0 | | | |
| Aztec Code | Aztec Code | A3 | е | Z | m | Planet Code | Planet Code | B6 | m | | 0 | | | |
| Chinese Sensible | Chinese Sensible | A4 | f | х | 0 | Postnet | Postnet | B8 | 0 | | 0 | | | |
| Australian Post | Australian Post | B0 | g | | 0 | | · | • | | | | | | |

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Keyboard Function Code Table

| No. | ANSI | ASCII | Key Function | Ctrl Output | No. | ANSI | ASCII | Key Function | Ctrl Output |
|-----|------|-------|--------------|-------------|-----|------|-------|---------------------|-------------|
| 00 | NUL | 00H | RESERVED | Ctrl + @ | 16 | DLE | 10H | F7 | Ctrl + P |
| 01 | SOH | 01H | CTRL (Left) | Ctrl + A | 17 | DC1 | 11H | F8 | Ctrl + Q |
| 02 | STX | 02H | ALT (Left) | Ctrl + B | 18 | DC2 | 12H | F9 | Ctrl + R |
| 03 | ETX | 03H | SHIFT | Ctrl + C | 19 | DC3 | 13H | F10 | Ctrl + S |
| 04 | EOT | 04H | CAPS LOCK | Ctrl + D | 20 | DC4 | 14H | F11 | Ctrl + T |
| 05 | ENQ | 05H | NUM LOCK | Ctrl + E | 21 | NAK | 15H | F12 | Ctrl + U |
| 06 | ACK | 06H | ESC | Ctrl + F | 22 | SYN | 16H | INS (Insert) (Edit) | Ctrl + V |
| 07 | BEL | 07H | F1 | Ctrl + G | 23 | ETB | 17H | DEL (Delete) (Edit) | Ctrl + W |
| 08 | BS | 08H | BACK SPACE | Ctrl + H | 24 | CAN | 18H | HOME (Edit) | Ctrl + X |
| 09 | HT | 09H | TAB | Ctrl + I | 25 | EM | 19H | END (Edit) | Ctrl + Y |
| 10 | LF | 0AH | F2 | Ctrl + J | 26 | SUB | 1AH | PAGE UP (Edit) | Ctrl + Z |
| 11 | VT | 0BH | F3 | Ctrl + K | 27 | ESC | 1BH | PAGE DOWN (Edit) | Ctrl + [|
| 12 | FF | 0CH | F4 | Ctrl + L | 28 | FS | 1CH | UP (Edit) | Ctrl + \ |
| 13 | CR | 0DH | ENTER (CR) | Ctrl + M | 29 | GS | 1DH | DOWN (Edit) | Ctrl +] |
| 14 | SO | 0EH | F5 | Ctrl + N | 30 | RS | 1EH | LEFT (Edit) | Ctrl + 6 |
| 15 | SI | 0FH | F6 | Ctrl + O | 31 | US | 1FH | RIGHT (Edit) | *see note |
| | | | | | | | | | |

To emulate the keyboard function key input for user definable parameters, user must configure actual content using the **Reserved ASCII 00 – 31** characters, and also **Enable** the "Function Key Emulation". Otherwise, the Ctrl output will be done by the scanner. Please refer to the above Keyboard Function Code Table which is for IBM PC/XT/AT, PS/2, PS/VP, COMPAQ PC, HP Vectra PC, Notebook PC, APPLE and PowerMac, and WYSE PC Enhanced or fully compatible machines.

The last character in the Ctrl Output column is varied for different countries.

| Country (refer to Keyboard Layout) & Character | | | | | | | | | | | |
|--|---|-------------|---|---------|---|--|--|--|--|--|--|
| United State | - | Switzerland | - | France | = | | | | | | |
| Belgium | - | UK | - | Germany | - | | | | | | |
| Sweden | - | Denmark | - | Norway | - | | | | | | |
| Spain | - | Italy | - | | | | | | | | |

To configure the user definable parameters of FuzzyScan via programming menu, FuzzyScan will ask you to scan your desired ASCII value in **HEX** form. You have to refer to the "**HEX/ASCII Table**" for details.

Example:

If you want the scanned data output leading with a Dollar Sign, you have to set the "Preamble" to "\$". The configuration procedure is listed below for reference.

- Scan the system command PROGRAM listed on page 3-24 to enter programming mode.
- Scan family code **PREAMBLE** to select this family.
- Refer to the Hex/ASCII Table, you will find the HEX value of "\$" is 24.
- Scan the option code 2 listed on the fold out back cover.
- Scan the option code 4 listed on the fold out back cover.
- Scan the system command FIN (Finish) to terminate Preamble setting.
- Scan the system command End to exit the programming mode for normal operation.

HEX/ASCII Reference Table

| H | 0 | 1 | 2 | 3 | 4 | 5 | 6 | 7 |
|---|-----|-----|-------|---|---|---|---|-----|
| 0 | NUL | DLE | SPACE | 0 | @ | Р | | р |
| 1 | SOH | DC1 | İ | 1 | А | Q | а | q |
| 2 | STX | DC2 | | 2 | В | R | b | r |
| 3 | ETX | DC3 | # | 3 | С | S | С | S |
| 4 | EOT | DC4 | \$ | 4 | D | Т | d | t |
| 5 | ENQ | NAK | % | 5 | E | U | е | u |
| 6 | ACK | SYN | & | 6 | F | V | f | V |
| 7 | BEL | ETB | ı. | 7 | G | W | g | W |
| 8 | BS | CAN | (| 8 | Н | Х | h | Х |
| 9 | HT | EM |) | 9 | Ι | Υ | i | у |
| Α | LF | SUB | * | : | J | Z | j | Z |
| В | VT | ESC | + | ; | K | [| k | { |
| С | FF | FS | 1 | < | L | ١ | - | |
| D | CR | GS | - | = | М |] | m | } |
| E | SO | RS | | > | Ν | ^ | n | ~ |
| F | SI | US | / | ? | 0 | _ | 0 | DEL |

: High Byte of HEX Value

: Low Byte of HEX Value

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RS232 Serial

Host Interface Quick Set







USB Com Port Emulation



PS/2 (DOS/V) KBW Standard Mode

PS/2 (DOS/V) KBW Turbo Mode

FuzzyScan Programming Manual

Operation Mode Quick Set (F & L Series)



Low Power (Low power trigger)



Presentation (Auto sensing)

Alternative (Periodic power off)







Toggle (Repeat reading)



FuzzyScan Programming Manual



Operation Mode Quick Set (A Series)







Presentation (Auto sensing)



Alternative (Periodic power off)

Level (Auto power off)





Force (Continued power on)



Diagnostic (Test reading)

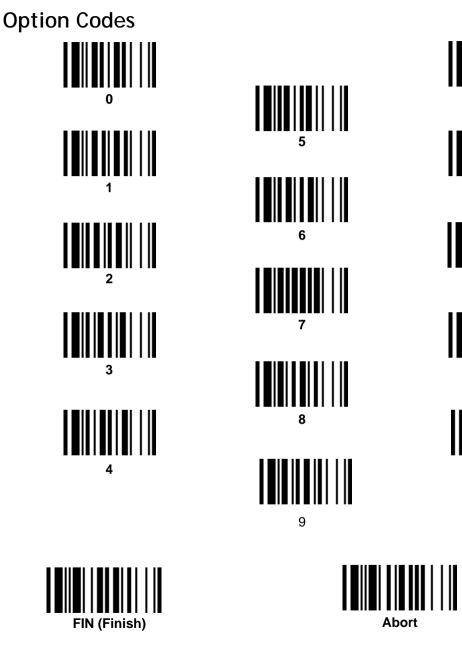


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FuzzyScan Programming Manual







END (Exit)

Appendix

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System Commands



FIN (Finish)





User Default









- Factory Default: After scanning" Factory Default" command, all parameters will be returned to factory default value.
- Master Default: After scanning "Master Default" command, the scanner will remain the pre-set parameters of Host Interface Selection, Keyboard Interface Control (except Record Suffix; Preamble; Postamble), Serial Interface Control (except Record Suffix; Preamble; Postamble), and Wand/Laser Emulation Control, the rest of parameters will be returned to default value.
- User Default: After scanning" Save User Default" command, all current parameters will be stored to the flash memory. Once you change the parameter and would like to return to previous setting, please scan "User Default".





FuzzyScan Family Programming Manual

CINO GROUP PC WORTH INT'L CO., LTD.

