IS3480 QuantumE
QuantumT 3580
Fusion 3780
Orbit 7120/7180
Solaris 7820

Quick Start Guide

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Getting Started

Turn off the computer’s power before connecting the scanner, then power up the computer once the scanner is fully connected.

Scanner Host Ports

- QuantumT 3580
- Fusion 3780
- IS3480 QuantumE
- Orbit 7120/7180
- Solaris 7820
Connecting the Scanner

- **USB**: Connect to scanner’s host port
- **Serial (RS232)**: Connect to scanner’s host port
- **Keyboard Wedge**: Connect to scanner’s host port
  - Optional adapter cable
Recall Defaults

Scan Recall Defaults to reset all standard product default settings.
Interface Selections

USB

USB Keyboard Emulation

Load Integrated Full Speed USB IBM/OEM Defaults

USB Serial Emulation
RS232

Keyboard Wedge

Keyboard Country
Scan a bar code to select one of the following keyboard country templates. Refer to your Configuration Guide for additional keyboard country settings.
ALT Mode

Use ALT Mode when bar codes or formatting rules include Extended ASCII data that might not have a direct keyboard equivalent. If your bar code contains special characters from the extended ASCII chart, scan the Enable 3-digit ALT Mode or Enable 4-digit ALT Mode codes below. The key sequence based on the ASCII value would be sent to the host (e.g., if an asterisk (*) is contained in the bar code, the host receives ALT + 0 + 4 + 2 (3-digit). If an “Ü” is contained in the bar code, the host receives ALT + 0 + 2 + 2 + 0 (4-digit). You may also use ALT Mode when no "Keyboard Country" bar code that matches your keyboard exists.

Italy

Spain
Note: Scan ALT mode after scanning the appropriate Keyboard Country code.

Enable 3-digit ALT Mode

Disable 3-digit ALT Mode

Enable 4-digit ALT Mode

Disable 4-digit ALT Mode
**RS232 Communication Commands**

- **RTS/CTS** Handshaking On
- **XON/XOFF** On
- **ACK/NAK** On
- **8 Data Bits**
Power Save Modes

Scan the following bar codes to have the scanner to enter/exit from various power save modes.
Host Scanner Commands

Scan the Enable D/E Disable bar code below to disable scanning after the scanner receives an ASCII “D” from the host. Scanning is enabled when the scanner receives and ASCII “E”.

Enable D/E Disable

Disable D/E Disable
Scan the **Activate DC2 Character** bar code below initiate scanning with the receipt of a DC2 character (^R, 124).

![Activate DC2 Character barcode]

Activate DC2 Character

Scanning the **Transmit Serial Number** code transmits the scanner’s serial number.

![Transmit Serial Number barcode]

Transmit Serial Number

Do Not Activate DC2 Character
LED Options

Scan the Laser LED Off/Scan LED Off bar code to turn off the laser/scan LED while scanning bar codes. The LEDs continue to illuminate for all other functions.
**Prefix**

Scan one of the following bar codes to program your scanner to add or remove a start of text character, or AIM, NCR, or Nixdorf identification characters before each bar code.

- **STX Prefix On**: ³116615
- **STX Prefix Off**: ³116605
- **AIM ID Prefix On**: ³107915
Suffix

Scan one of the following bar codes to program your scanner to add or remove a carriage return, line feed, tab, or end of text after each bar code.
User Configurable Prefix/Suffix

One or two prefix or suffix characters can be added and assigned for data transmission. Use one of the codes below with a 3 code byte sequence that represents the desired character (see ASCII Conversion Chart, end of document) for your prefix or suffix. (To add additional prefix/suffix characters, refer to your Single-Line Configuration Guide.)

Scan the Enter/Exit Programming bar code to begin. Then scan the 3 digit decimal equivalent of the ASCII character into the appropriate character location with the code byte bar codes (see Code Bytes, end of document). To save, scan the Enter/Exit Programming bar code again.
Example: To add an asterisk (*) as a prefix, scan the bar codes:
1. Enter/Exit Programming
2. Configurable Prefix #1
3. Code Byte 0
4. Code Byte 4
5. Code Byte 2
6. Enter/Exit Programming
Supplements

Scan one of the bar codes below to program your scanner for 2 or 5 digit bar code supplements.

- Configurable Prefix #2
- Configurable Suffix #1
- Configurable Suffix #2
2 Digit Supplements Off

5 Digit Supplements Off

2 Digit Supplements On

5 Digit Supplements On
977 (2 Digit) Supplement Required: Turn on this feature when a 2 digit supplement is required for EAN-13 codes that begin with 977.
UPC/EAN Formatting

Scan **Convert UPC-A to EAN-13** and a leading zero is transmitted before a UPC-A bar code to convert it to EAN-13.

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**Convert UPC-A to EAN-13**

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**Don’t Convert UPC-A to EAN-13**
Scan Transmit Lead Zero on UPC-E to transmit a zero before each UPC-E bar code.

Transmit Lead Zero on UPC-E

Don't Transmit Lead Zero on UPC-E
Scan **Transmit UPC-A Number System** to transmit the UPC-A leading digit with the bar code data. To transmit just the data, without the leading digit, scan **Don’t Transmit UPC-A Number System**.
Expand UPC-E to 12 Digits expands the UPC-E code to the 12 digit, UPC-A format.

Expand UPC-E to 12 Digits

Don’t Expand UPC-E to 12 Digits
When **Code 39 Full ASCII On** is scanned, certain character pairs within the bar code symbol will be interpreted as a single character. For example: $V will be decoded as the ASCII character SYN, and / C will be decoded as the ASCII character #.

**Check Digits**

The following selections allow you to specify whether the check digit should be transmitted at the end of the scanned UPC-A or UPC-E data.
Don't Transmit UPC-A Check Digits

Transmit UPC-E Check Digits

Don't Transmit UPC-E Check Digits

Transmit UPC-E Check Digits
**GS1 Symbology**

Due to the large spaces commonly found in GS1 DataBar symbologies, it is recommended that you enable **GS1 Double Border Required**. Scan the other codes below to enable/disable GS1 Databar 14 and GS1 Limited.

- **GS1 Double Border Required**
  ![Barcode Image]

- **Enable GS1 Databar 14**
  ![Barcode Image]

- **Disable GS1 Databar 14**
  ![Barcode Image]
Host Configurations

Scan one of the following codes, then scan the Recall Defaults code, to program the scanner for one of the following configurations.
Miscellaneous

Minimum Symbol Length specifies the minimum number of characters allowable for non-UPC/EAN bar codes. Scan the Enter/Exit Programming bar code to begin. Scan Minimum Symbol Length, then scan the minimum number of characters allowed using code byte bar codes, below. To save, scan the Enter/Exit Programming bar code again.

901800
Minimum Symbol Length

999999
Enter/Exit Programming
| Dec | Hex | Char | Dec | Hex | Char | Dec | Hex | Char | Dec | Hex | Char | Dec | Hex | Char | Dec | Hex | Char | Dec | Hex | Char | Dec | Hex | Char |
|-----|-----|------|-----|-----|------|-----|-----|------|-----|-----|------|-----|-----|------|-----|-----|------|-----|-----|------|-----|-----|------|-----|-----|------|
| 0   | 0   | NUL  | 36  | 24  | Y    | 72  | 48  | Z    | 104 | 68  |      | 105 | 69  |      | 106 | 6A  |      | 107 | 6B  |      | 108 | 6C  |      |
| 1   | 01  | SOH  | 37  | 25  | &    | 73  | 49  | a    | 109 | 6D  |      | 110 | 6E  |      | 111 | 6F  |      | 112 | 70  |      | 113 | 71  |      |
| 2   | 02  | STX  | 38  | 26  | ‘    | 74  | 50  | b    | 114 | 72  |      | 115 | 73  |      | 116 | 74  |      | 117 | 75  |      | 118 | 76  |      |
| 3   | 03  | ETX  | 39  | 27  | ’    | 75  | 51  | c    | 119 | 77  |      | 120 | 78  |      | 121 | 79  |      | 122 | 7A  |      | 123 | 7B  |      |
| 4   | 04  | EOT  | 40  | 28  | (    | 76  | 52  | d    | 124 | 7C  |      | 125 | 7D  |      | 126 | 7E  |      | 127 | 7F  |      |
| 5   | 05  | ENQ  | 41  | 29  | )    | 77  | 53  | e    | 128 | 80  |      | 129 | 81  |      | 130 | 82  |      | 131 | 83  |      | 132 | 84  |      |
| 6   | 06  | ACK  | 42  | 30  | _    | 78  | 54  | f    | 133 | 85  |      | 134 | 86  |      | 135 | 87  |      | 136 | 88  |      | 137 | 89  |      |
| 7   | 07  | BEL  | 43  | 31  | ~    | 79  | 55  | g    | 138 | 8A  |      | 139 | 8B  |      | 140 | 8C  |      | 141 | 8D  |      | 142 | 8E  |      |
| 8   | 08  | BS   | 44  | 32  |     | 80  | 56  | h    | 143 | 8F  |      | 144 | 90  |      | 145 | 91  |      | 146 | 92  |      | 147 | 93  |      |
| 9   | 09  | HT   | 45  | 33  |     | 81  | 57  | i    | 148 | 94  |      | 149 | 95  |      | 150 | 96  |      | 151 | 97  |      | 152 | 98  |      |
| 10  | 0A  | LF   | 46  | 34  |     | 82  | 58  | j    | 153 | 99  |      | 154 | 9A  |      | 155 | 9B  |      | 156 | 9C  |      | 157 | 9D  |      |
| 11  | 0B  | VT   | 47  | 35  |     | 83  | 59  | k    | 158 | 9E  |      | 159 | 9F  |      | 160 | A0  |      | 161 | A1  |      | 162 | A2  |      |
| 12  | 0C  | FF   | 48  | 36  |     | 84  | 5A  | l    | 163 | A3  |      | 164 | A4  |      | 165 | A5  |      | 166 | A6  |      | 167 | A7  |      |
| 13  | 0D  | CR   | 49  | 37  |     | 85  | 5B  | m    | 168 | A8  |      | 169 | A9  |      | 170 | AA  |      | 171 | AB  |      | 172 | AC  |      |
| 14  | 0E  | SO   | 50  | 38  |     | 86  | 5C  | n    | 173 | AD  |      | 174 | AE  |      | 175 | AF  |      | 176 | B0  |      | 177 | B1  |      |
| 15  | 0F  | SI   | 51  | 39  |     | 87  | 5D  | o    | 178 | B2  |      | 179 | B3  |      | 180 | B4  |      | 181 | B5  |      | 182 | B6  |      |
| 16  | 10  | DLE  | 52  | 40  |     | 88  | 5E  | p    | 183 | B7  |      | 184 | B8  |      | 185 | B9  |      | 186 | BA  |      | 187 | BB  |      |
| 17  | 11  | DC1  | 53  | 41  |     | 89  | 5F  | q    | 188 | BC  |      | 189 | BD  |      | 190 | BE  |      | 191 | BF  |      | 192 | C0  |      |
| 18  | 12  | DC2  | 54  | 42  |     | 90  | 60  | r    | 193 | C1  |      | 194 | C2  |      | 195 | C3  |      | 196 | C4  |      | 197 | C5  |      |
| 19  | 13  | DC3  | 55  | 43  |     | 91  | 61  | s    | 198 | C6  |      | 199 | C7  |      | 200 | C8  |      | 201 | C9  |      | 202 | DA  |      |
| 20  | 14  | DC4  | 56  | 44  |     | 92  | 62  | t    | 203 | CA  |      | 204 | CB  |      | 205 | CC  |      | 206 | CD  |      | 207 | CE  |      |
| 21  | 15  | WM   | 57  | 45  |     | 93  | 63  | u    | 208 | CF  |      | 209 | D0  |      | 210 | D1  |      | 211 | D2  |      | 212 | D3  |      |
| 22  | 16  | SYN  | 58  | 46  |     | 94  | 64  | v    | 213 | D4  |      | 214 | D5  |      | 215 | D6  |      | 216 | D7  |      | 217 | D8  |      |
| 23  | 17  | ETX  | 59  | 47  |     | 95  | 65  | w    | 218 | D9  |      | 219 | DA  |      | 220 | DB  |      | 221 | DC  |      | 222 | DD  |      |
| 24  | 18  | FW   | 60  | 48  |     | 96  | 66  | x    | 223 | DE  |      | 224 | DF  |      | 225 | E0  |      | 226 | E1  |      | 227 | E2  |      |
| 25  | 19  | SM   | 61  | 49  |     | 97  | 67  | y    | 228 | E3  |      | 229 | E4  |      | 230 | E5  |      | 231 | E6  |      | 232 | E7  |      |
Patents
For patent information, please refer to www.honeywellaidc.com/patents.

Technical Assistance
Contact information for technical support, product service, and repair can be found at www.honeywellaidc.com.

Limited Warranty
Refer to www.honeywellaidc.com/warranty_information for your product’s warranty information.

User Documentation
For localized versions of this document, and to download the Configuration Guide or the Installation and User’s Guide, go to www.honeywellaidc.com.

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