

code

User Manual



Code Reader™ 3600
Code Reader™ 3600 DPM

Manual Version 02 Release
Date: March 2014

Statement of Agency Compliance



The Code Reader™ 3600 (CR3600/CR3600 DPM) has been tested for compliance with FCC regulations and was found to be compliant with all applicable FCC Rules and Regulations.

IMPORTANT NOTE: To comply with FCC RF exposure compliance requirements, this device must not be co-located or operate in conjunction with any other antenna or transmitter.

CAUTION: Changes or modifications not expressly approved by the party responsible for compliance could void the user's authority to operate the equipment.



The CR3600 has been tested for compliance to CE standards and guidelines and was found to conform to applicable CE standards, specifically the EMC requirements EN 55024, ESD EN 61000-4-2, Radiated RF Immunity EN 61000-4-3, ENV 50204, EFT EN 61000-4-4, Conducted RF Immunity EN 61000-4-6, EN 55022, Class B Radiated Emissions, and Class B Conducted Emissions.



The CR3600 has been tested and certified in compliance with the Technical Regulations Conformity Certification of Specified Radio Equipment (ordinance of MPT N°.37. 1981), Article 2, Paragraph 1, Item 19.

Code voids product warranty if the hard case has been opened or tampered with in any way.

The CR3600 meets all safety and quality standards in accordance to EN 60950-1:2006/A11:2009/A1:2010.

CR3600 CodeXML® Modem FCC and ICES Compliance

NOTE: This equipment has been tested and found to comply with the limits for a Class B digital device, pursuant to part 15 of the FCC Rules. These limits are designed to provide reasonable protection against harmful interference in a residential installation. This equipment generates, uses and can radiate radio frequency energy and, if not installed and used in accordance with the instructions, may cause harmful interference to radio communications. However, there is no guarantee that interference will not occur in a particular installation.

If this equipment does cause harmful interference to radio or television reception, which can be determined by turning the equipment off and on, the user is encouraged to try to correct the interference by one or more of the following measures:

- Reorient or relocate the receiving antenna.
- Increase the separation between the equipment and receiver.
- Connect the equipment into an outlet on a circuit different from that to which the receiver is connected.
- Consult the dealer or an experienced radio/TV technician for help.

This device complies with part 15 of the FCC Rules. Operation is subject to the following two conditions: (1) This device may not cause harmful interference, and (2) this device must accept any interference received, including interference that may cause undesired operation.

This device complies with Industry Canada licence-exempt RSS standard(s). Operation is subject to the following two conditions: (1) this device may not cause interference, and (2) this device must accept any interference, including interference that may cause undesired operation of the device.

Le présent appareil est conforme aux CNR d'Industrie Canada applicables aux appareils radio exempts de licence. L'exploitation est autorisée aux deux conditions suivantes : (1) l'appareil ne doit pas produire de brouillage, et (2) l'utilisateur de l'appareil doit accepter tout brouillage radioélectrique subi, même si le brouillage est susceptible d'en compromettre le fonctionnement.

This Class B digital apparatus complies with Canadian ICES-003.

Cet appareil numérique de la classe B est conforme à la norme NMB-003 du Canada.

Code Reader™ 3600 (CR3600 DPM) User Manual

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The Code Reader software uses the Mozilla SpiderMonkey JavaScript engine, which is distributed under the terms of the Mozilla Public License Version 1.1. The Code Reader software is based in part on the work of the Independent JPEG Group.

www.codecorp.com

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1.0 - Unpacking

Remove the CR3600 from its packing and inspect it for damage. If the reader was damaged during shipping, please contact Code.

Based on the kit purchased, a combination of the following components will be included with the CR3600 reader:



2.0 - Charging Station Assembly Instructions

1. Plug the barrel side of the USB charge cable or power supply (depending on which you ordered) into the charger. (Figure 1)
2. (Optional) Attach the weighted base. Place the 'This Side Down' (Figure 2) side of the weighted base onto the surface, and place the Charging Station on top of it and secure with the screws provided. (Figure 3)



3. Rubber feet can be placed on the corners of the weighted base (Figure 4) or directly onto the Charging Station (Figure 5) to prevent slipping from a surface.
4. (Optional) Mounting the Charging Station to a Surface. Place the 'This Side Down' (Figure 2) side of the weighted base onto the surface, and secure with screws. Note: Because surface types differ, screws are not included to mount a Charging Station to a surface.

3.0 - Battery Installation and Removal

Place the battery into the reader as shown below. (Figure 6) Once in place, the battery will snap and lock to indicate proper installation. For battery removal, slide the latch (Figure 7), to unlock and release the battery.



Figure 6



Figure 7

4.0 - Charging the CR3600

1. Plug the USB cable into the computer's USB port (Figure 8) or the power adapter into the wall outlet. (Figure 9)



Figure 8



Figure 9

Note: Batteries ships with approximately 50% battery life and should be completely charged before initial use. Approximate time to charge a depleted battery is 4 hours via USB cable, and 2 1/2 hours via AC power supply.

2. Remove the plastic 'Remove Before Use' cap and place the reader into the Charging Station. (Figure 10)



Figure 10

5.0 - Fuel Gauge Battery Status Indicators

Check the Battery Life

Press the fuel gauge button (Figure 11) to determine remaining battery life. If the battery has less than 10% capacity, the first LED will flash rapidly. For 25% or greater capacity, the LEDs will flash ON for 4 seconds.



Figure 11

Battery Life	Fuel Gauge Indicators
<10%	● (Flashes Rapidly)
<25%	●
25-50%	● ●
50-75%	● ● ●
75%+	● ● ● ●

Figure 13

Fuel Gauge Status Indicator While Charging

If the battery has less than 10% capacity, the first LED will flash rapidly while charging. For 25% or greater capacity, the LEDs will flash ON for 4 seconds.

6.0 - Powering On/Off the Reader

Press and hold either button located on the right or left of the arrow keys, or the trigger on handled configurations (Figures 12 and 13), for one second, to power on reader. The CR3600 will beep, vibrate and the LEDs will flash to indicate it is on and ready for use.



Figure 12



Figure 13

7.0 - Targeting the CR3600

Make sure the CR3600 screen is at the Ready prompt, hold the CR3600 4-8 inches away from the barcode and press one of the power/scan buttons or the trigger (Figure 14). The CR3600 will display data from the scanned barcode on its screen. (Figure 4)



Figure 14

The CR3600 will beep, vibrate and the good read indicator (Figure 19) will flash green to indicate a 'good read' has occurred.

8.0 - Keypad/Icon Overview

Key	Description of Button Function			
	Numeric Mode	Upper Case Text Mode	Lower Case Text Mode	Symbol Mode
	Toggles between numeric characters, upper case text, lower case text, and symbol character input	Toggles between numeric characters, upper case text, lower case text, and symbol character input	Toggles between numeric characters, upper case text, lower case text, and symbol character input	Toggles between numeric characters, upper case text, lower case text, and symbol character input
	1	Space, 1	Space, 1	Space) < _
	2	A, B, C, 2	a, b, c, 2	! * = `
	3	D, E, F, 3	d, e, f, 3	" + > {
	4	G, H, I, 4	g, h, i, 4	# , ?
	5	J, K, L, 5	j, k, l, 5	\$ - @ }
	6	M, N, O, 6	m, n, o, 6	% . [~
	7	P, Q, R, S, 7	p, q, r, s, 7	& / \ Space
	8	T, U, V, 8	t, u, v, 8	' :] Space
	9	W, X, Y, Z, 9	w, x, y, z, 9	(; ^ Space
	0	0	0	Toggles between 4 sets of symbols – when pressed, the current symbol set is displayed
	Backspace and clear messages			

Note: All characters represented in this table are for ASCII mode.

The chart below shows all of the icons for CodeViewer™ software and their definitions.

Icon	Description
<i>Power Icons</i>	
	50% to 100% capacity of battery
	20% to 50% capacity of battery
	0% to 20% capacity of battery – recharge battery as soon as possible
<i>Connection Icon</i>	
	Reader is connected wirelessly to a receiving device (computer, handheld, etc.)
	No icon is displayed when the reader does not detect a connection
<i>Communication Mode Icons</i>	
	USB communication mode enabled
	Bluetooth communication mode enabled
<i>Packet Mode Icons</i>	
	Standard Bluetooth Reliability Mode (previously One Way Mode) – no acknowledgement required
	Additional Bluetooth Reliability Mode (previously Two Way Mode) – packetized communication between a CR3600 and an application
	USB Downloader mode
	Keyboard mode – to be used as USB keyboard input mode
	Secure mode – data encryption mode enabled
<i>Memory Icons</i>	
	No stored data
	Memory is at 20% full
	Memory is at 40% full
	Memory is at 60% full
	Memory is at 80% full
	Memory is at 100% full
	No batch mode – data will not be stored in the reader’s memory if not connected
<i>Input Mode Icons</i>	
	Caps Lock – data entered manually on the keypad will be in capital letters
	Lower Case – data entered manually on the keypad will be in lower case letters
	Numeric – data entered manually on the keypad will be numeric
	Symbol – data entered manually on the keypad will be symbols
	Locked – buttons pushed on the reader’s keypad will be ignored*

***Note:** To lock/unlock reader buttons press Shift + Up Arrow simultaneously.

9.0 - How to View Stored Data

1. Select 'Options' from the 'Ready' screen by pressing the soft key below the word 'Options.' (Figures 15 and 16)
 2. Select 'View storage.' (Figure 17)
 3. First stored data item is displayed. (Figure 18)
 4. Use the right and left arrow keys to cycle through the stored data items. (Figure 19)
- Shortcut: From the Ready screen, simply press the right and left arrow buttons to cycle through the stored data items.



Figure 15

Soft Key
Command Buttons



Figure 16



Figure 17

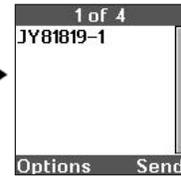


Figure 18



Figure 19

10.0 - How to Delete Stored Data

1. Begin at the 'Ready' prompt. (Figure 20)
2. Select 'Options.' (Figure 20)
3. Select 'View storage.' (Figure 21)
4. Use the left and right arrow keys to display the item you want to delete. Select 'Options.' (Figure 22)
5. Select 'Delete.' (Figure 23)



Figure 20



Figure 21

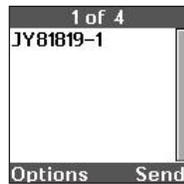


Figure 22

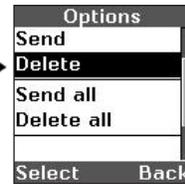


Figure 23

11.0 - How to Transfer Stored Data to Host Device

1. Make sure a Bluetooth connection has been established between the CR3600 and host device.
2. The CR3600 screen should be at the 'Ready' prompt. Press the CLEAR button to return to the 'Ready' prompt if necessary. (Figure 24)
3. Select 'Options.' (Figure 24)
4. Select 'Send all' to transfer all stored data to the host computer. (Figure 25)
5. The CR3600 will display a message that all data was sent. (Figure 26)



Figure 24



Figure 25



Figure 26



12.0 - How to Manually Enter Data

1. Begin at the 'Ready' prompt. (Figure 27)
2. Select 'Options.' (Figure 27)
3. Select 'Enter data.' (Figure 28)
4. You can enter numbers, text, or symbols. Press the SHIFT key to toggle between entry modes. (Figure 29) Press a key multiple times to cycle through the available letters. Press the 0 key multiple times to cycle through all the available symbols. (Figure 30)
5. When done entering data, press the Enter key to send the data. (Figure 31)

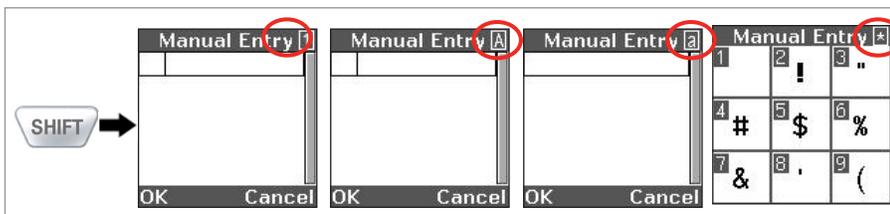
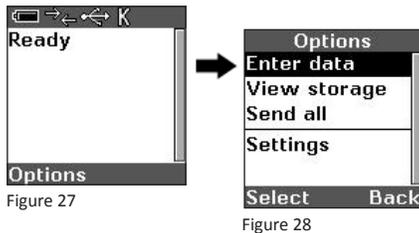


Figure 29

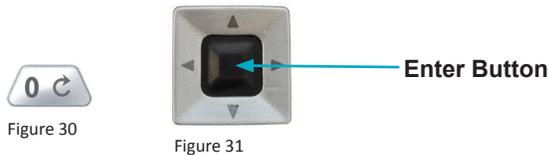


Figure 30

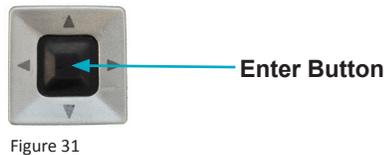


Figure 31

13.0 - Communication Mode Switch

Charging Stations with an embedded modem feature a Communication Modem Switch. The Communication Mode Switch allows the reader to transmit data through either the modem or wired connection.

When the Communication Mode Switch is moved to the right, in the direction of the arrow, the reader will communicate via the modem. The QuickConnect code located on the front of the Charging Station must be scanned to establish a Bluetooth connection. Scanned data will then be transmitted to the host device wirelessly.

If a wired connection is needed, move the Communication Mode Switch to the left. For USB Downloader or Keyboard mode, the Batch Mode Enable code must be scanned (refer to Section 10). To transmit scanned data while in wired mode, the reader must be placed into the Charging Station before data can be transmitted to the host device.



14.0 - Communicating in USB Downloader (HID) Mode

CR3600 firmware and configuration settings can be managed via USB Downloader (HID) Mode using Code's CortexTools™. If you are using the CR3600 with a CodeXML® M3 Modem, skip to step 2.

For the CR3600 to communicate in wired, USB Downloader (HID) Mode with a Charging Station with embedded CodeXML® modem:

1. Move the Communication Mode Switch to the left (opposite direction of the arrow) on the Charging Station (Figure 16).
2. Open CortexTools™.
3. Scan the USB Downloader (HID) Mode configuration barcode.
4. Dock the reader into the Charging Station.
5. Follow the instructions detailed in the CortexTools™ User Manual, available from www.codecorp.com.

**USB Downloader (HID) Mode
Configuration Code**



Note: to manually switch to USB Downloader Mode follow these steps.

1. Select 'Options.'
2. Select 'Settings.'
3. Select 'Communication.'
4. Select 'USB.'
5. Select 'Downloader.'
6. Select 'Save.'

15.0 - Communicating in Batch Mode via USB Communication Mode

Batch mode allows a user to store scanned data to the reader's non-volatile memory. The user may transfer the data to a host device when needed.

The CR3600 may be configured to operate in three different modes:

1. Batch Mode Disable (Default) - In default mode, data is NOT stored in memory. The CR3600 will automatically detect when the Bluetooth radio is out of range, and will beep 4 times each scan to indicate this. The CR3600 will automatically reconnect when the Bluetooth radio is in range.
2. Log Only Mode - In Log Only Mode, the reader will only store data to its memory.
 - The data can ONLY be retrieved by scanning the "Transfer Stored Data in Memory" barcode. Scanning the "Transfer Stored Data in Memory" barcode will transfer the data to the host device, but not delete the data from the reader's memory.
 - A user must scan the "Delete Buffered Scanned Data from Memory" barcode to clear reader memory.
 - The CR3600 will reconnect to the Bluetooth radio when the "Transfer Data in Memory" or the QuickConnect Code is scanned.
 - Auto reconnect is disabled when Log Only is enabled.
3. Send & Log Mode - In Send & Log Mode the reader will store a copy to its memory **as well** as send the data if the reader is connected.
 - The data can be retrieved by scanning the "Transfer Stored Data from Memory" barcode. Scanning the "Transfer Stored Data in Memory" barcode will transfer the data to the host device, but not delete the data from the reader's memory.
 - A user must scan the "Delete Buffered Scanned Data from Memory" barcode to clear reader memory.
 - The CR3600 will reconnect to the Bluetooth radio when the "Transfer Data in Memory" or the QuickConnect Code is scanned.
 - Auto reconnect is disabled when Log Only is enabled.

After a successful decode in batch mode, the unit will beep once and the memory LED will turn green indicating stored memory.



Transferring and Deleting Data

There are three different codes to transfer and delete data in memory.

- Transfer All Data in Memory - This will send all data in memory every time the barcode is scanned.
- Transfer Only Unsent Data in Memory - This will send only the data in memory that hasn't already been sent when the barcode is scanned (only in batch modes).
- Delete Scanned Data from Memory - Scanning this barcode will erase all data in the reader's memory.

Batch Mode Disable - Default Reboot



Batch Mode Enable - Log Only



Batch Mode Enable - Send and Log



Batch Mode Disable - Transfer Only Unsent Data in Memory



Batch Mode Disable - Transfer All Data in Memory



USB Keyboard Mode (Batch Mode Only)



16.0 - Batch Mode Indicators

When the CR3600 is in batch/storage mode, a storage icon will appear to indicate the range of storage space that has been used.

17.0 - Attaching the CodeXML® M3 Modem

1. Attach the 8-pin DIN end of the USB or RS232 cable provided to the CodeXML® M3 Modem (Figure 32).



USB Cable



RS232 Cable



Figure 32

2. Plug the USB connector into the USB port on the computer, or RS232 (Serial) cable to a serial port on the computer. Once plugged in, the modem's blue LED light will flash (Figure 32).



USB Cable

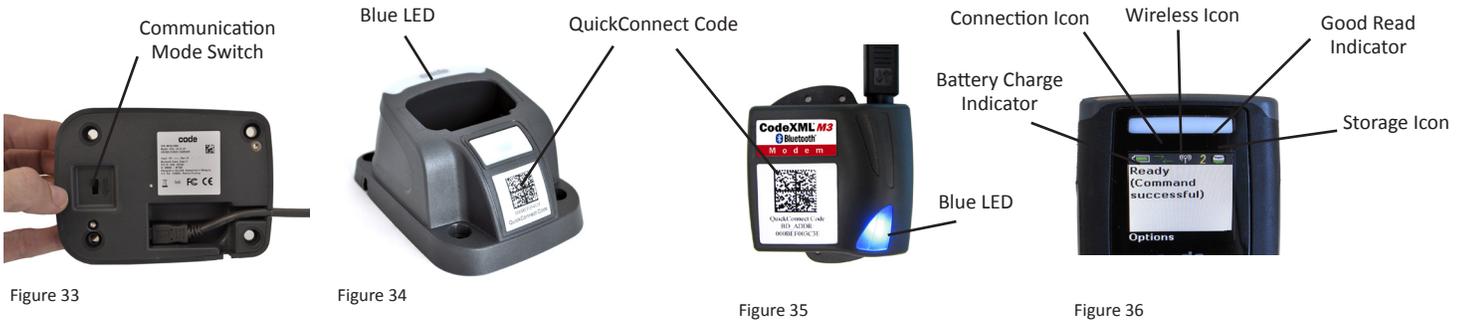


RS232 Cable

18.0 - Establishing a Bluetooth® Connection

1. If establishing a Bluetooth connection using the Charging Station with embedded CodeXML® Modem, slide the Communication Mode Switch on the Charger/Modem Station (Figure 33), to Bluetooth mode (the direction of the arrow).
2. Scan the *QuickConnect Code* located on the front of the Charging Station with embedded CodeXML® modem or on the external CodeXML® M3 Modem (Figures 34 and 35).
3. The wireless icon located at the top of the reader will flash as it attempts to make connection (Figure 36). The blue LED on the charging station or CodeXML® M3 Modem (Figures 35 and 36) will also flash as it attempts to connect. The blue LED will turn solid when connection is established, the CR3600 will beep once and the wireless icon will flash every 10 seconds.

For additional CodeXML® M3 Modem configuration information, please reference the CodeXML® M3 Modem QuickStart Guide.



Important Note If Using a non-Code Bluetooth Device:

To connect to a Bluetooth device not manufactured by Code, you will need the Bluetooth address (often referred to as the BD_ADDR) of that device. The 12-character Bluetooth address can be found on the device near the serial number. Then visit Code's website at: <http://www.codecorp.com/bdaddr.php> and enter the 12-character address to create the QuickConnect Code.

You will need to locate the Communications (COM) Port assigned to the Bluetooth serial port protocol before installing the Bluetooth Configuration Manager software that is included with your Bluetooth adapter (e.g., COM 10). This is the COM Port through which the CR3600 will connect.

19.0 - Reading Ranges

CR3600 Performance		
Test Barcode	Min Inches (mm)	Max Inches (mm)
3 mil Code 39	3.1" (80 mm)	4.0" (102 mm)
7.5 mil Code 39	1.3" (33 mm)	7.2" (182 mm)
10.5 mil GS1 DataBar	0.8" (20 mm)	8.7" (220 mm)
13 mil UPC	1.1" (28 mm)	11.0" (280 mm)
5 mil Data Matrix	1.7" (43 mm)	4.5" (115 mm)
6.3 mil Data Matrix	1.3" (33 mm)	5.9" (150 mm)
10 mil Data Matrix	0.8" (20 mm)	7.1" (180 mm)
20.8 mil Data Matrix	1.1" (28 mm)	13.5" (343 mm)

Note: working ranges are a combination of both the wide and high density fields. All samples were high quality barcodes and were read along a physical center line at a 10° angle. Default AGC settings were used. Accuracy= +/- 10%.

20.0 - Reader Feedback

Scenario	LEDs on Reader	Sound	Vibration
CR3600 Successfully Powers Up	All LEDs Flash	1 Beep	Palm or Handle Unit Vibrates
CR3600 Successfully Connects with Host	Wireless Icon Flashes	1 Beep	Palm or Handle Unit Vibrates
Successful Decode and Data Transfer	Good Read Indicator will Flash	1 Beep	Palm or Handle Unit Vibrates
Configuration Barcode Successfully Decoded and Processed	Good Read Indicator will Flash	2 Beeps	Palm or Handle Unit Vibrates
Batch Mode Enabled and Data Stored	Batch Icon Flashes	2 Beeps	No Vibration
Memory Space for Batching is Full	Batch Icon Flashes 5 Time a Second	No Sound	No Vibration
Batch Mode Enabled and No Data is Stored	Batch Icon Off	No Sound	No Vibration

21.0 - Symbologies Defaulted On

The following are symbologies that have a default of ON. To turn symbologies on or off, scan the symbology barcodes located in the CR3600 Configuration Guide located on our website at <http://www.codecorp.com/files.php>.

Aztec	Code 93	Data Matrix Rectangle	PDF417
Codabar	Code 128	All GS1 DataBar	QR Code
Code 39	Data Matrix	Interleaved 2 of 5	UPC/EAN/JAN

22.0 - Symbologies Defaulted Off

Code scanners can read a number of symbologies that are not enabled by default. For a complete list (and the configuration barcodes to enable those symbologies), please reference the CR3600 Configuration Guide at www.codecorp.com/files.php.

23.0 - Suffix Enter

A Suffix Enter character is disabled by default. To enable Suffix Enter, please scan the following configuration barcode:

Suffix Enter



M10134_01

For more configuration options, download the CR3600 Configuration Guide from www.codecorp.com/files.php. For custom configurations, please contact appeng@codecorp.com.

24.0 - CR3600 DPM

DPM (Direct Part Marks such as Dot Peen and Laser-Etched) reading is enabled by default in CR3600 DPM readers.

Dot Peen and Laser-Etched Reading

Dot Peen and Laser-Etched reading is the default DPM setting. This will also read common 1D/2D printed barcodes.

Dot Peen Barcode Reading

If reading Dot Peen barcodes only, scan the DPM (Dot Peen Only) On configuration barcode to optimize reading for that barcode type. Scanning the DPM (Dot Peen Only) On configuration barcode will disable laser-etched barcode reading. This will not read common 1D/2D printed barcodes.

Laser-Etched Barcode Reading

If reading laser-etched barcodes only, scan the DPM (Laser-Etched only) On configuration barcode to optimize laser-etched barcode reading. Scanning the DPM (Laser-Etched Only) On configuration barcode will disable Dot Peen barcode reading. This will also read common 1D/2D printed barcodes.

DPM (All) Off

To reset a CR3600 DPM reader to standard CR3600 settings, scan the DPM (All) Off configuration barcode. This will disable all DPM reading. To return to DPM reading functionality, scan the preferred DPM On configuration barcode.

DPM (Dot Peen Only) On



M10370_01

DPM (Laser-Etched Only) On



M10371_01

DPM (Dot Peen and Laser-Etched) On



M10372_01

DPM (All) Off



M10369_01

CR3600 DPM Targeting

The optimal reading distance between reader and barcode varies based on barcode type and quality. Typical reading distance is from 2 inches (50mm) to 4 inches (100mm). To improve reading performance for dot peen (and other) marks, tilt the reader 10 to 45 degrees from vertical so that it is not perpendicular to the barcode.



25.0 - Pre-Installed Applications

The CR3600 ships with three pre-installed applications: Admissions, ID Verification, and Inventory. The three applications will appear during initial boot-up of the reader; and can be accessed at a later time by selecting the 'Applications' option and then 'Run apps'.

Select the application by toggling the up and down arrows located above the keyboard. Highlight and press the center 'enter' button found between the arrow buttons once an application has been selected.

Admissions Application

The Admissions application will display two sub-categories; Events and Tradeshow. (Figure 37)

Events

The following screen (Figure 38) will appear when the Events application is selected. Press the soft key button located below the word 'Options' (Figure 39) to run the application. The 'Event options' screen provides a list of integrated features and functionality. (Figure 40)



Figure 37

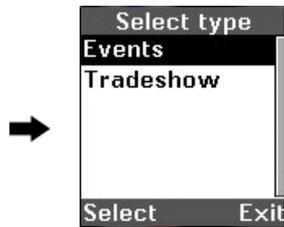


Figure 38



Figure 39

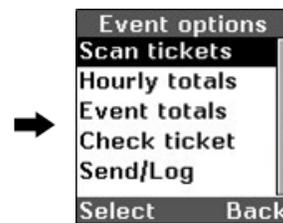
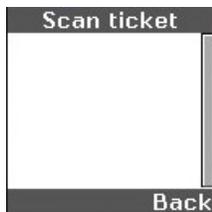


Figure 40



Scan ticket: activates the reader to begin scanning tickets. Ticket information that appears on the screen after a ticket is scanned is based on the data contained in the barcode.



Hourly totals: this screen provides hourly updates based on the number of tickets scanned.



Event totals: provides event updates based on the number of scans taken during a specific day or the event as a whole.



Check ticket: enables the user to scan a ticket to determine ticket validity or to list the number of times the ticket has been used.



Saving to file?: allows the user to save the scanned data to file. The data will be saved under the name demoEvent_log.demo.

Sample barcode format for events:

1D barcodes should be 19 characters in length. It is recommended the format be set-up with the below data.

1. First 5 characters will be numbers representing the event ticket number.
2. The last 8 characters will represent the data with the mmddyyyy format.
3. The middle 6 characters will represent the event name.

Example: 00001kurban10152013

Tradeshaw

The following screen will appear when the Tradeshaw application is selected. (Figure 41) Press the soft key button located below the word 'Options' to run the application. (Figure 42)



Figure 41

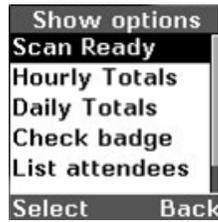
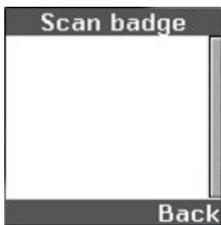


Figure 42



Scan badge: by selecting this option, the reader is ready to scan badges.



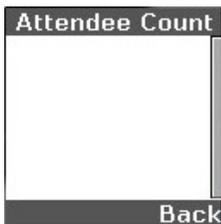
Hourly and daily totals: provides real-time updates of hourly and daily totals.



Show totals: provides daily updates of the number of scans/attendees who have visited the booth.



Check badge: enables the user to scan a badge and determine the validity, or list the number of times the badge has been used.



Attendee count: lists the number of attendees of a specific company and the number of times each member has visited the booth.



Saving to file?: allows the user to save the scanned data. The data will be saved under the name event_log.demo.

Sample barcode set-up for tradeshow:

Barcode formatting:

1. Badge Number: Must start with A (Attendee) or E (Exhibitor) followed by 5 digit number.
2. First name: First name from the badge number.
3. Last name: Last name from the badge number.
4. Position: Position of the attendee or exhibitor.
5. Company: Company name.
6. City: Main company location.
7. State: Company's state.
8. Phone: phone number.
9. Email: attendee email address.

Example: E10001*Jon*Doe*CEO*XYZ, Inc*Anywhere*CA*555-555-0000*jon.doe@XYZ.com*

Inventory

Inventory Application: select 'Options' to run inventory application. (Figure 43) Inventory options: move cursor to select the inventory application to run. (Figure 44)



Figure 43



Figure 44

Scan Products option:

1. Scan the product barcode; product description will appear in the 'Product' field.
2. Place the cursor in the 'Location' field and scan the product location, or enter manually by using the keyboard.
3. In the 'Quantity' field, scan or manually enter the product quantity.
4. In the 'Quantity Adjustment' field enter the quantity to be adjusted, all adjusted quantities must be entered as a positive number (do not enter negative quantities). Once adjusted quantity is entered (positive numbers only), a screen with the option to add or subtract this amount will appear for selection. Press the 'enter' button found in the center of the arrow buttons to accept the data in each of the fields.
5. If the product already exists in inventory, the location and existing quantity will automatically populate and the adjustment amount can be entered at this time. Once the data is entered and inventory is adjusted, a review screen will appear with the entered data with time and date stamp. Data can be saved to file or erased to begin a new entry. The reset option can be used at when needed.





When the 'Check Quantity', 'Check Location', or 'Last Edit Date' options are selected, the following screen will appear. Scan the product, the location, quantity, or timestamp, and the last entry for the product will be displayed. If the product does not exist, a message will appear to indicate the product is not in the system. Pressing the 'Back' option will revert to the inventory menu and the 'Another' option allows the user to scan another product for location, quantity, or timestamp.



When the 'Total Scans' option is selected, the following image will appear to display the total number of scans performed for that day. This tracks only the scans that have been saved to file.

File uploading

Reader must be connected to host device with a spreadsheet or data entry platform opened, and the cursor is placed where data is to be transmitted. Select 'Upload' from the main inventory menu. Once data is transmitted, a notification to delete the transmitted information will appear.

Age/ID Verification

This application is intended to work best in states with non-encrypted drivers' licenses. States with encrypted formats will show an 'invalid' feedback. Customized programming is available to read encrypted formats.

Select the 'Age' or 'ID' to run program. (Figure 45) Selecting the 'Age' application will launch the 'Verify Age' screen. (Figure 46) Application is ready to display the scanned drivers' license information.

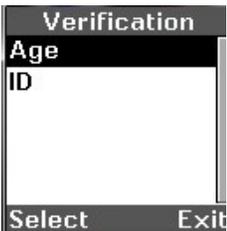


Figure 45

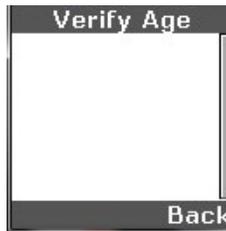


Figure 46



Figure 47

Once a driver's license is scanned, one of the following message will appear on the screen; 'Over 21,' 'Under 21,' or 'Invalid.' The name of the cardholder will also be displayed. (Figure 47)

ID Verification

Selecting the 'ID' application will launch the 'Verify ID' screen. (Figure 48) Application is now ready to display the scanned drivers' license information. Once drivers' license information has been scanned, cardholder information will appear in the below format. (Figure 49)



Figure 48

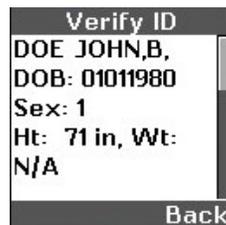


Figure 49



26.0 - Reader ID and Firmware Version

To find out the Reader ID and firmware version, open a text editor program (i.e., Notepad, Microsoft Word, etc.) and read the following code:

Reader ID and Firmware



You will see a text string indicating your firmware version and CR3600 ID number (see below):

iVVVVWWWWXXXXSSSSSSSSSSAOOYYYYHHIIIIJJJJKKKKLLLL<TAB>Z...Z

i indicates 'I' string output;

VVVV is the application firmware version number;

WWWW is the core application firmware version number;

XXXX is reserved for the radio firmware version number;

SSSSSSSSSS is the Reader's serial number (ten digits);

A is the current execution state: _____ | "A" means core is running

OO is the OEM identifier;

D is the display type: _____ | "0" or "N" is no display device
"D" is the standard Keypad/Display

YYYY is the flash file system version number. Reserved;

HH is the hardware revision;

IIII is the hardware type identifier: 0010 indicates a CR3600

JJJJ is the boot application version;

KKKK is the operating system kernel version;

LLLL is the root file-system version;

<TAB> is the ASCII TAB character;

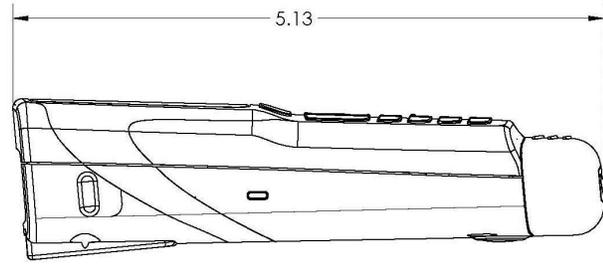
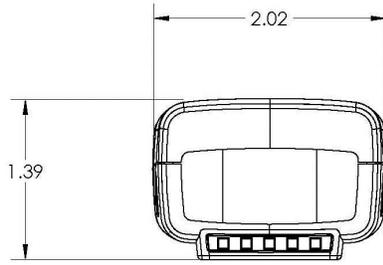
Z...Z is the decoder version: a null terminated string of printable ASCII characters. Without a decoder.ini file, the order of the decoders listed here indicates the order of use.

Example: Xap/i3000300006040010002363A06D-CD+SQ

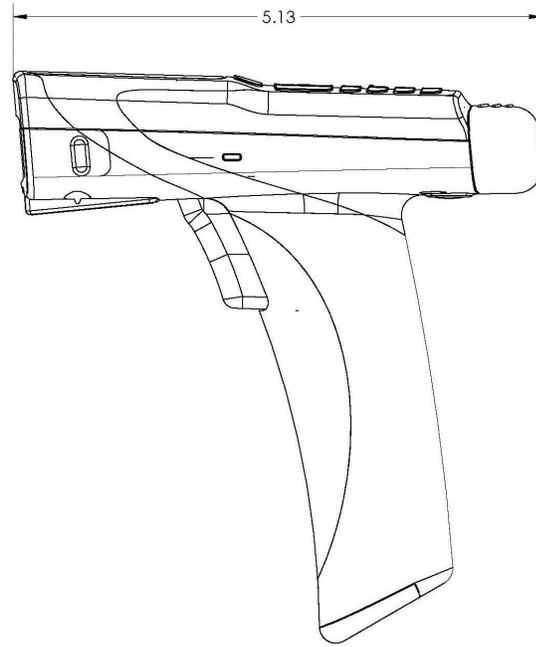
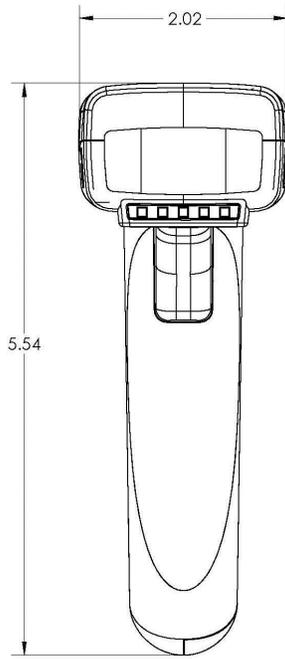
Note: Code will periodically release new firmware for CR3600 readers. For information on latest firmware versions, call Code at (801) 495-2200. To upgrade firmware, please visit our website at <http://www.codecorp.com/codesupport.php> and follow instructions provided.

27.0 - CR3600 Dimensions

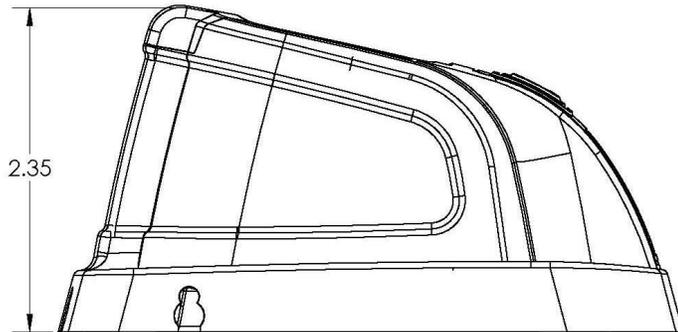
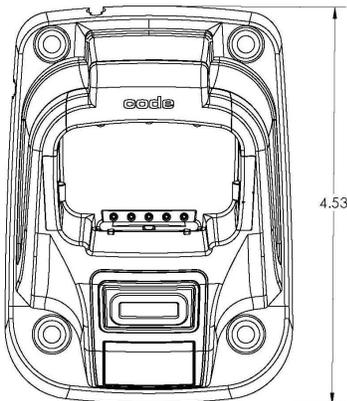
CR3621

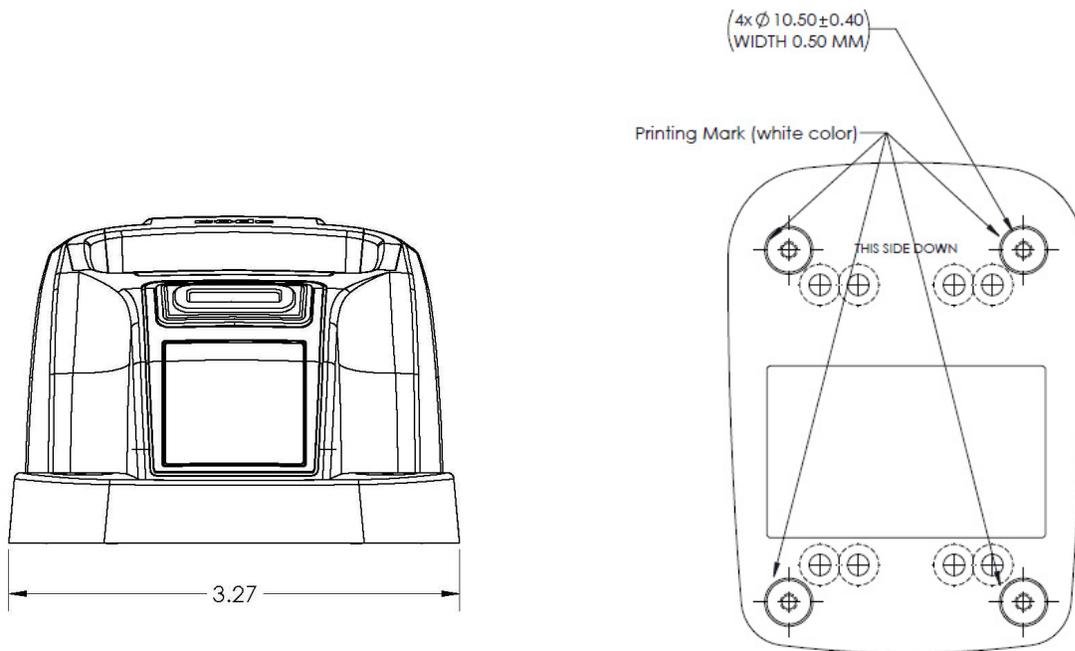


CR3622



28.0 - Charging Station Dimensions





29.0 - CR3600 Maintenance

The CR3600 needs only minimum maintenance to operate. The tips below are suggestions for maintenance.

Cleaning the CR3600

The CR3600 window should be clean to allow the best performance of the device. The window is the clear plastic piece inside the head of the reader. Avoid touching the window. Your CR3600 uses CMOS technology that is much like a digital camera. A dirty window may stop the CR3600 from reading barcodes.

If the window becomes dirty, clean it with a soft, non-abrasive cloth or a facial tissue (no lotions or additives) that has been moistened with water. A mild detergent may be used to clean the window, but the window should be wiped with a water moistened cloth or tissue after using the detergent.

Technical Support and Returns

To modify any default settings, download the CR3600 Configuration Guide at www.codecorp.com/files.php and scan the appropriate code. For user specific configurations, contact Application Engineering at Code_appeng@codecorp.com.

For all returns Code will issue an RMA number which must be placed on the packing slip when the reader is returned. Visit <http://www.codecorp.com/codesupport.php> for more information.

30.0 - Warranty

Code's CR3600 carries a standard two year limited warranty as described herein. Charging Stations follow the warranty of the reader. The CR3600 battery carries a one year limited warranty.

Customers may purchase either a one or two year CodeOne extended warranty plan. Please contact a Code representative for more information.

Limited Warranty

Code manufactures its hardware products in accordance with industry-standard practices. Code warrants its products will be free from defects in materials and workmanship, provided that the products are used under normal operating condition intended by the Manufacturer. This warranty is provided to the original owner only and is not transferable to any third party. This warranty is subject to any and all accompanying disclaimers, limitations and other terms of this section.

Warranty periods are not extendable beyond 5 years. CodeOne extended warranty programs are available and must be purchased within 90 days of purchase. Please refer the CodeOne Data Sheet for program pricing and terms and conditions.

Exclusions

No warranty herein contained or set out shall apply to any product (i) which has been repaired, altered or tampered with unless done or approved by Code, (ii) which has not been maintained in accordance with any operating or handling instructions supplied by Code, (iii) which has been subjected to unusual physical or electrical stress, immersion in fluids, puncture, crushing, misuse, abuse, power shortage, improper power supply such as incorrect voltage or wrong polarity, negligence or accident, or (iv) which has been used other than in accordance with the product operating and handling instructions. Preventive maintenance is the responsibility of the customer and is not covered under this warranty.

Warranty Coverage and Procedure

During the warranty period, Code will repair or replace defective products returned to Code's service center in the US. For worldwide warranty service, go to <http://www.codecorp.com/technical-support.php> and fill out a service request. Customer will be issued a case number. Case will be routed into the support queue within Code. Customer will be contacted within one business day of submission. Code representative will work with customer to troubleshoot solution and attempt to restore reader to proper functionality. If the Code representative determines that it cannot be restored programmatically and deems a hardware issue is found a Return Material Authorization (RMA) Number will be assigned and customer will be instructed to return the product to Code.

Products must be shipped in the original or comparable packaging, with shipping and insurance charges prepaid. Only parts listed in the original RMA should be sent and will be accepted. Code will pay for return shipping and insurance of repaired or replacement products worldwide. Code will use new or refurbished parts at its discretion and will own all parts removed from repaired products. Customer will pay for any pre-shipped replacement product in case it does not return the replaced product to Code within 7 days of receipt of the replacement product. The process for return and customer's charges will be in accordance with Code's Exchange Policy in effect at the time of the exchange. Customer accepts full responsibility for its software and data including the appropriate backup thereof. Repair or replacement of a product during warranty will not extend the original warranty term.

Return time frames are listed in the chart above. For RMA's not covered under warranty as outlined in the exclusion section, customer will be required to pay the non-covered warranty fee as listed in the chart above.

General

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The stated express warranties are in lieu of all obligations or liabilities on part of Code for damages, including without limitation, special, indirect, or consequential damages arising out of or in connection with the use or performance of the product. Seller's liability for damages to buyer or others (regardless of the form of action, whether by contract, warranty, tort, malpractice, and/or otherwise) resulting from the use of any product, shall in no way exceed the purchase price of said product. In no event shall Code be liable for any consequential, special, indirect, incidental or punitive damages, or for any loss of profits, revenue or data, even if Code has been advised of the possibility thereof.

