BRADY

V3200

User Manual

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Revision A

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Safety and Environment

Please read and understand this manual before using the V3200 Barcode Scanner for the first time. This manual describes all of the main functions of the scanner.

Precautions

Before using the V3200 Barcode Scanner please note the following precautions:

- Read all instructions carefully before operating the scanner and prior to performing any procedure.
- Do not place the unit on an unstable surface or stand.
- Do not place anything on top of the unit.
- Keep the top clear of obstructions.
- Only use the power source indicated on the rating label.
- Use only the power cord that comes with the unit.
- Do not place anything on the power cord.
- This equipment is not intended for use by children.

Technical Support and Registration

Contact Information

Visit the Brady Knowledge Base at support.bradyid.com/s/.

For repair or technical assistance, locate your regional Brady Technical Support office by going to:

- **United States:** bradyid.com/techsupport
- **Canada:** bradycanada.ca/contact-us
- **Mexico:** bradyid.com.mx/es-mx/contacto
- **Latin America:** bradylatinamerica.com/es-mx/soporte-técnico
- **Europe**: bradyeurope.com/services
- **Australia:** bradyid.com.au/technical-support
- **Asia Pacific**: brady.co.uk/landing-pages/global-landing-page

Registration Information

To register your scanner go to:

- bradycorp.com/register

Repair and Return

If for any reason you need to return the product, please contact Brady Technical Support for replacement information.

Contents

1 Introduction

System Specifications

The V3200 Barcode Scanner has the following specifications:

- Bluetooth capability
- Battery status LEDs
- Removable lithium ion battery, 3300 mAh
- Scan range from 0.4" (10 mm) to 13.1" (333 mm) depending on barcode size and type
- Light weight of only 1.08 lb (490 g) (with battery)
- Compatible with tool balancer

Typical Scanning Ranges

	3 mil Code 39	7.5 mil Code 39	10.5 mil GS1 Databar	13 mil UPC	5 mil Data Matrix	6.3 mil Data Matrix	10 mil Data Matrix	20.8 mil Data Matrix
Min Distance	3.5" 90 mm	0.9" 23 mm	0.4" 10 mm	0.7" 18 mm	1.3" 33 mm	0.9" 23 mm	0.4" 10 mm	0.7" 18 mm
Max Distance	4.4" 112 mm	6.8" 172 mm	8.3" 210 mm	10.6" 270 mm	4.1" 105 mm	5.5" 140 mm	6.7" 170 mm	13."1 333 mm

Physical and Environmental Characteristics

V3200 Barcode Scanner

The V3200 Barcode Scanner has the following physical and environmental characteristics:

Physical	U.S. Units	Metric Units
Dimensions	7.8" L x 3.4" W x 6" H	198 x 85.5 x 152 mm
Weight (with battery pack)	1.08 lb	490 g

Environmental	Operation	Storage
Temperature Exposing to direct sunlight is not recommended.	-4° to 122° F (-20° to 50° C)	-22° to 158° F (-30° to 70° C)
Relative Humidity	5% to 95% (non-condensing)	5% to 95% (non-condensing)

CAUTION! Avoid using the barcode scanner near water, in direct sunlight, or near a heating device.

V1300 Cradle

The V1300 cradle has the following physical and environmental characteristics:

Physical	U.S. Units	Metric Units
Dimensions	10" L x 4.5" W x 2.9" H	254 x 113 x 74 mm
Weight	16 oz	456 g

Environmental	Operation	Storage
Temperature Exposing to direct sunlight is not recommended.	-4° to 122° F (-20° to 50° C)	-22° to 158° F (-30° to 70° C)
Relative Humidity	5% to 95% (non-condensing)	5% to 95% (non-condensing)

V1100 Charging Station (optional)

The V1100, optional, charging station has the following physical and environmental characteristics:

Physical	U.S. Units	Metric Units
Dimensions	5.2" L x 3.3" W x 2.6" H	132 x 84 x 66 mm
Weight	6 oz	169 g

Environmental	Operation	Storage
Temperature Exposing to direct sunlight is not recommended.	32° to 113° F (0°C – 45°C)	-22° to 158° F (-30° to 70° C)
Relative Humidity	5% to 95% (non-condensing)	5% to 95% (non-condensing)

V1200 Battery

The V1200 lithium-ion battery has the following environmental characteristics:

Environmental	Charging	Storage
Temperature	32° to 104° F (0°C – 40°C)	<1 month -4° – 122°F (-20°C – 50°C) <3 months -4° – 104°F (-20°C – 40°C) <1 year -4° – 68°F (-20°C – 20°C)
Relative Humidity	5% to 95% (non-condensing)	0% to 95% (non-condensing)

Proximity Range for Bluetooth

The V3200 Barcode Scanner should be within 300 ft (100 m) of the cradle, without obstruction, to pick up the Bluetooth signal. The scanner will emit an audible alert and the LED will flash red when out of range.

2 Setup

Unpacking the Barcode Scanner

Carefully unpack and inspect the V3200 Barcode Scanner and its components.

What's in the Box

Before setting up the scanner, verify that you have received the following items in the packaging:

- V3200 Barcode Scanner
- V1300 Cradle
- V1200 Li-ion Battery
- Power Cord
- Power Adapter
- Lanyard clasp for tool balancer
- RJ50 to USB-A/Connection Cable
- Quick Start Guide

Save the Packaging

Save the product packaging in case you have to ship it and the accessories back to the supplier.

CAUTION! Never ship the V3200 Barcode Scanner without first removing the rechargeable battery.

If shipping both the barcode scanner and battery, remove the battery and place the items in the original shipping material before transporting. Consult with your transportation carrier for state, federal, municipal, and international shipping regulations regarding the lithium battery pack.

Registration

Register your barcode scanner on-line at www.bradycorp.com/register to receive free product support and updates!

Barcode Scanner Components

Serial Number

Serial numbers are located on the labels affixed to the equipment. After connecting to a computer the barcode on the cradle's label can be scanned to acquire the serial number, rather than manually entering it.

1	Scan window
2	Tool balancer connection
3	Bluetooth connection LED
4	Battery status
5	Trigger
6	Lanyard loop
7	Battery compartment

Cradle Components

1	QuickConnect Code for pairing
2	Cable disconnect button
3	Bluetooth indicator
4	LED status lights
5	Pager button
6	Connection port
7	Cable channel guide

Power

Power is supplied to the scanner through a lithium ion battery, which is charged when the scanner is in the V1300 cradle or by using the optional V1100 battery charging station.

CAUTION! The battery in the V3200 Barcode Scanner can only be charged using the V1300 Cradle or V1100 Battery Charging Station.

Battery

WARNING!

- Do not operate or store the battery in temperatures above or below those indicated in the Physical and Environmental Characteristics.
- Do not store the scanner with the battery in temperatures above 122° F (50° C) or below -4° F (-20° C).
- Do not charge the battery in temperatures above 113° F (45° C) or below 32° F (0°C)
- Do not disassemble or mistreat the battery.
- Do not attempt to open, damage, or replace components in the battery.
- The battery should only be used in the V3200 scanner.
- Charge the battery while it is installed in the scanner using the V1300 cradle or charge the battery separately in the V1100 battery charger.
- Do not allow metal or other conductive materials to touch the battery terminals

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WARNING! When storing the battery:

- Do not allow metal or other conductive materials to touch the battery terminals.
- Keep the battery away from sparks, flames, or other heat sources.
- Keep the battery away from water.
- Never lay objects on top of the battery.
- Store your battery only in a cool, dry place.
- Keep the battery out of the reach of children.
- At the end of battery life, replace your old battery only with a battery intended for use with the V3200 Barcode Scanner.
- The battery must be recycled or disposed of properly according to federal, state, and municipal regulations.

WARNING! Risk of Explosion if battery is replaced by incorrect type. Dispose of used batteries according to instructions.

Initial Setup

Cradle

IMPORTANT! Only use the cables provided for the V1300 Cradle.

1. Insert one end of the RJ50 cable into the bottom of the cradle. Push until you hear it click into place.

Note: To remove the cable, firmly push the yellow disconnect button in the front of the cradle and pull the cable out.

2. Press the cable into the channel guide on the bottom of the cradle.

3. Insert the barrel end of the adapter into the cable.
4. Fit the power cord into the power brick and then plug the other end into an AC wall outlet.

5. Plug the USB or (optional) serial cable into the host computer.

   This establishes data transfer to the host. For mounting instructions see Mounting the Cradle on page 20.

Scanner

1. Press the yellow latch then pull up and back on the silver battery cover and insert battery into the cavity of the scanner.

   The battery is keyed so it can only be inserted one way. Close the battery compartment latch firmly until it clicks.

2. Place the scanner into the cradle and press down until it clicks into place.

   The battery status LEDs will illuminate. When the battery is fully charged, remove the scanner from the cradle.

3.Power on the scanner by pulling the trigger.

When the scanner successfully completes its booting sequence (in about 2 seconds), the LEDs will flash, it will beep, and the scanner will vibrate once.

WARNING! To prevent risk of fire, electrical shock, explosion, or damage:

- Do not operate or store the scanner in temperatures above or below those indicated in the Physical and Environmental Characteristics.
- Do not disassemble, mistreat, or attempt to replace components in the scanner.
- Do not use any AC adapter other than that specifically for use with the V1300 Cradle.
- Do not incinerate the scanner. Keep the scanner, cradle and optional charging station away from heat sources.
- Keep the scanner, cradle and optional charging station away from water.
- Never lay objects on top of the scanner or cradle.
- Store all devices in a cool, dry place.
- The scanner must be recycled or disposed of properly according to federal, state, and municipal regulations.

Battery Status LEDs

The battery status LEDs, on the top of the scanner, indicate the percentage of battery remaining. The LEDs light up when the scanner is powered on and stop illuminating after one minute. They will illuminate whenever the trigger is pulled.

The LEDs will flash when the scanner is seated in the cradle.

Battery Percentage	Charging	Not Charging
1 - 25%	1st LED Flashes	1 LED Illuminated
26 - 50%	2nd LED flashes	2 LEDs Illuminated
51 - 75%	3rd LED flashes	3 LEDs Illuminated
76 - 99%	4th LED flashes	4 LEDs Illuminated
100%	4 LEDs Illuminated	4 LEDs Illuminated

Battery Removal

To remove the battery, press the yellow latch then pull up and back on the silver battery cover. Lightly tap the open cavity on the palm of your hand until the battery releases into your cupped hand.

CAUTION! Do not allow the battery to drop onto a hard surface.

Charging the Battery

To charge the battery installed in the scanner, place the scanner in the cradle with the scan window facing down. The scanner will beep once if the scanner is powered off and wakes up, another beep if the scanner has been paired with the cradle and reconnects.

Cradle LED Behavior

LED	Status
• • • • •	Charging in progress
———	Charged
• • • • •	Error

The battery will be fully charged in approximately 4 hours when using the cradle with an external power supply.

Note: It is normal that the area around the scanner becomes warm during charging.

V1100 Charging Station (Optional)

The battery can also be charged using the optional V1100 battery charging station accessory. Connect the charging station to the power supply provided and plug the power supply into an AC power source. Insert battery into the charger. The battery status LEDs will flash once per second during charging. The LEDs will stay on solid when a battery is fully charged in approximately 4 hours.

Note: It is recommended to fully charge the battery before deploying the scanner for the first time, even though a new battery has a residual amount of battery power.

Automatic Shut Down

To conserve energy, the scanner automatically goes into auto shutdown after a period of inactivity. When using the cradle, power is constant so there is no drain on the battery. To set the inactive time, contact Technical Support (see page iv). The scanner will automatically power off when not in use for two hours.

Pairing the Scanner

The scanner operates in Bluetooth Low Energy (BLE) mode. It pairs with the cradle for wireless data communication.

Cradle

The cradle will receive data wirelessly from the paired scanner and send to the host PC via the USB cable (or optional serial cable) on the cradle. It can receive commands, configurations, files, etc. from the host and send wirelessly to the paired scanner.

Pair the scanner with the cradle by using the V3200 scanner to scan the QuickConnect Code located on the cradle. A successful pairing is indicated by two short beeps followed by one normal beep, one vibration and the green LED on the scanner will flash. When the scanner and cradle are paired, the Bluetooth indicator will be a solid blue. When the cradle and host are connected the LED indicators on the cradle will turn solid green.

Computer or Mobile Device

The scanner can be paired with a computer, mobile phone or tablet that supports BLE as a Bluetooth HID keyboard device.

Scan the BT HID Keyboard barcode (M20381.1) below to set the reader as a Bluetooth Keyboard device, then connect using host's device manager (on PC) or Bluetooth settings (on mobile devices).

Note: This mode is not applicable when connected via Bluetooth to the V1300.

M20381.1

Settings

To update settings like those shown below, as well as others not listed, follow these steps.

1. Go to https://www.bradyid.com/support/reader-scanner/scanner-configuration-tool
2. Scroll to and click on V3200.
3. Check the category of interest and click **Next**.
4. Select the desired function and click **Generate**.
5. Choose to print or download the barcode then scan it with your barcode scanner.

Common settings to update include the following:

- Volume - Raise or lower the volume of sound for the different types of notifications.
- Vibration - Set the intensity of the vibration or turn it off.
- Trigger - Set the amount of time for holding the trigger before scanning the barcode.
- Factory Reset - Erase all custom configurations, pairing information and resets the scanner to default settings.
- Reset Files - Remove image files, custom JavaScript files and inventory history.
- Batch Mode - This will store the barcode data in the scanner until it is within range of the cradle which then transfers the information to the host.
- Shutdown Time - Set the amount of inactive time before the scanner automatically shuts down.
- Battery - Set the amount of time for the battery LEDs to stop illuminating; default is one minute.

For additional support, contact Technical Support (see page iv).

Accessories

The following accessories for the V3200 Barcode Scanner can be purchased separately.

- V1100 Charging Station
- V1200 Li-ion Battery
- Serial Cable
- Power Cord
- USB-C Cable
- Lanyard

3 General Operation

Handheld Scanning

Hold the scanner at a distance of about 4" (10 cm) from the barcode, then pull the trigger. An audible alert will sound to indicate that the barcode has been read, there will be a green blink and the scanner will vibrate.

Note: Depending on the size of the barcode, you may need to vary the distance between the scanner and the barcode. In general, high density codes read better at shorter distances (close up) and large or wide barcodes read better at longer distances (farther away).

IMPORTANT! To maintain battery power, place the scanner back into the cradle between activities. Constant charging will not shorten the life of the battery.

See Battery Status LEDs on page 10 for information on the LEDs related only to the battery.

LED Behavior on Scanner	
•	Good read
• • •	Read error
• • • • •	File upload
———	Device updating

LED Behavior on Cradle	
———	Connected to host
• • • • •	Host disconnected
———	Bluetooth connected
• • • • •	Bluetooth disconnected when slowly flashing. Data transfer flashes quickly.
• • • • •	Battery in scanner is charging
———	Battery in scanner is charged

Barcodes and Symbology

A variety of barcodes and symbologies are supported. The scanner can store up to one megabyte of barcode data in its internal memory.

To add new barcode symbology, disable all barcodes, or change settings on barcodes follow these steps:

1. Go to https://www.bradyid.com/support/reader-scanner/scanner-configuration-tool.
2. Scroll to and click on V3200.
3. Check the category of interest and click **Next**.
4. Select the desired function and click **Generate**.
5. Choose to print or download the barcode then scan it with your barcode scanner.

Even when all barcodes are disabled, configuration barcodes can still be scanned.

Alerts

Good Read

When the scanner has successfully read the target, there will be a green blink, a beep and the scanner will vibrate, assuming these features have not been disabled.

Error

The scanner will blink red and beep if the host is not available.

Config

When a configuration barcode is scanned, the scanner will beep.

File Download

During download the red LED will illuminate while saving to memory. A beep will sound when the operation is complete.

Communicating

The scanner will beep when connecting to the host or when reconnecting if the connection was broken.

Scanner Location

To locate a missing scanner, press the paging button on the cradle. The scanner will beep continuously until the trigger is pulled or paging times out after 30 seconds.

Note: This feature only works on a scanner that is paired and in range of the cradle. If the scanner is not paired to the cradle, the light on the cradle will flash three times.

Image

When saving an image, the scanner will beep when the upload begins and again when it is finished.

Power Modes

Operating Mode – The scanner attempts to decode barcodes when the trigger is pulled. In this mode, illumination and targeting are flashing.

Idle Mode – The scanner is on but not attempting to decode barcodes. Pull the trigger to put the scanner into operating mode.

Power Off Mode – When powered off, the scanner is not drawing any power from the battery. The scanner can be manually powered off or if the scanner is out of its charger it will power off after 2 hours by default.

Regardless of mode, the cradle and optional battery charger will show whether the battery is charging, charged, or if there is an error.

Errors are indicated by a one second on/off flashing of a red LED:

- Battery is dead
- Battery is not seated properly. Remove battery and any obstruction and reinsert.

The battery in the scanner can be fully charged in four hours. Keeping the scanner in the cradle when not in use is recommended.

Battery Charging Station (Optional)

To be able to maintain constant power to the barcode scanner, keep up to two spare batteries in the V1100 charging station. The charging station will individually indicate the battery charging status. Simultaneously charging two batteries will take less than four hours. Storing a fully charged battery in the charging station until ready to use is recommended.

Bluetooth Status

The cradle will show Bluetooth status via an LED.

- Slow blue flash - scanner is not connected.
- Steady blue LED - scanner is connected.

Paging the Scanner

If the scanner is out of its cradle and its whereabouts are unknown, press the paging button on the cradle (see Cradle Components on page 6). As long as it is within the Bluetooth range, the scanner will beep continuously until the trigger is pulled or paging times out after 30 seconds.

4 Maintenance

Firmware Updates

Installing CortexTools3

In order to upgrade the firmware, a special software tool will need to be downloaded and installed on every host PC for which a cradle and scanner are connected. Alternatively, the software can be installed on a single host and any cradle or scanner can be moved to that host for the purpose of upgrading the firmware.

Contact Technical Support (see page iv) or follow the steps below.

Minimum System Requirements: Windows 10

Note: CortexTools3 can only be installed on a desktop or laptop computer.

1. Go to https://www.bradyid.com/v3200support scroll to find CortexTools3 and download it to the host computer for the barcode scanner and cradle.
2. Double-click on the installation file.
3. After the install starts, choose the language and click Next.
4. Under “Setup Type” select Complete.
5. Click the box for “Allow network connections with CortexTools3” and click Next.
6. Click Install.
7. The box next to “Launch CortexTools3” should be checked by default. If it is not, click the box to add.
8. Click Finish.
9. Click Yes on the V3200 Keyboard message.

Note: If CortexTools3 is allowed network access, the firmware version on the equipment can be automatically ascertained when the equipment is connected and CortexTools3 is open. A message will display if a new firmware version is available.

Upgrading the Cradle

1. Go to https://www.bradyid.com/v3200support and download the .crbfw firmware upgrade file.
2. Remove the battery from the scanner to disconnect the pairing to the cradle.
3. Connect the cradle to the host using the USB cable.
4. Open CortexTools3 software.
5. Click Yes on the message that displays.
6. Click the Reader icon in the CortexTools3 interface in the upper left corner.
7. On the left side of the CortexTools3 interface, select the cradle to be upgraded.
8. Drag and drop or browse for the V1300 upgrade file (as indicated in the file name).
9. Click the download button in the CortexTools3 interface.
10. Click Yes on the message that displays.
11. Close CortexTools3 if you are only updating firmware on the cradle.

Upgrading the Scanner

1. Go to https://www.bradyid.com/v3200support and download the .ufw firmware upgrade file.
2. Put the battery into the scanner.
3. Scan the QuickConnect Code on the cradle.
4. Click the Reader icon in the CortexTools3 interface in the upper left corner.
5. On the left side of the CortexTools3 interface, select the scanner to be upgraded.
6. Drag and drop or browse for the V3200 upgrade file (as indicated in the file name).
7. Click the download button in the CortexTools3 interface.

   The LEDs on the scanner will blink yellow during the upgrade.
8. When the Download File button displays, you can close CortexTools3 by clicking on the X in the upper right corner of the interface screen.
9. Close CortexTools3.

Configuration Control Document

This manual has information on the specifics of the scanner configuration. To access that guide, follow the steps below.

1. Go to https://www.bradyid.com/v3200support
2. Scroll to find the V3200 or enter the model number in the search bar.
3. Find and click on the V3200 Configuration Control Document link in the list under Support.
4. Download the document to your computer.

For additional support, please see Technical Support and Registration on page iv.

Cleaning the Barcode Scanner and Components

Cleaning the scanner, especially the scan window, will help maintain peak performance.

CAUTION! To prevent electric shock, always disconnect the cradle and charger from its power source before cleaning.

CAUTION! Using an abrasive material or any liquid which may leave a residue or streaks on the scan window may impact scan performance.

Scan Window

Use a lint/dust free (or microfiber) cloth dampened with only water to gently wipe the scan window. Allow to air dry before use.

IMPORTANT! Never spray any liquid directly on to the window. Never allow any liquid to pool around the window.

Scanner, Cradle and Charger Case

CAUTION! Do not remove the battery to clean the metal contacts on the battery or inside the battery compartment.

1. Lightly moisten a soft (non-scratching) cloth with isopropyl alcohol, or use a pre-moistened swab from the Brady Cleaning Kit PCK-6, to wipe down the outer case on the scanner, cradle and (optional) charger.
2. Remove excess isopropyl alcohol with a dry, soft (non-scratching) cloth.
3. Allow 15 seconds for the components to dry before using.

Mounting the Cradle

Desktop

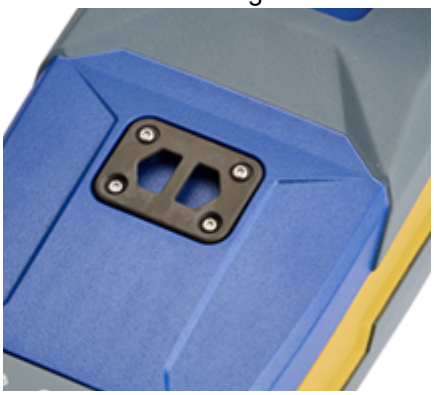
Although it is not necessary to secure the cradle on a flat, horizontal surface, multi-use adhesive tape can be used, if desired. Alternatively, it can be more securely fastened using three #10 (M4) size screws (not provided).

Horizontal distance between the two top holes is: 3.05" (77.4 mm).

Vertical distance between the top and bottom holes is: 6.70" (170.35 mm).

Attaching a Tool Balancer

Attach a tool balancer to the connection point on the scanner using the lanyard clasp (included in the kit). If the scanner rises after being lowered and released, adjust the spring tension on the tool balancer according to the manufacturer's instructions.



Attaching the Lanyard

A lanyard (available as an accessory) can be attached to the scanner using the loop on the handle.

5 Troubleshooting

Use the following table to troubleshoot and diagnose possible performance problems with your scanner. If the corrective action suggested does not work, contact Brady's Technical Support Group. See Technical Support and Registration on page iv.

Errors

Problem	Cause	Corrective Action
Illumination and/or targeting does not appear when the trigger is pulled	Battery is out of power	Charge the battery or replace it with a freshly charged one.
	Imager failure with the top LED on the scanner blinking red	Call Technical Support. See Technical Support and Registration on page iv.
Scanner does not scan.	Symbology is disabled.	Make sure the symbology you are scanning is enabled. See Barcodes and Symbology on page 14.
Scanner scans the barcode but fails to transmit the data to the host.	Incorrect communication mode.	Set the scanner to the correct communication mode using appropriate configuration code. See Settings on page 13. (Note: USB Keyboard is the most common mode).
	CortexTools3 is open.	Close CortexTools3.
The host receives incorrect data or misses characters.	Incorrect communication protocol.	Find and scan the configuration code to set raw data or packet data. See Settings on page 13.
	Incorrect setting for intercharacter delay.	Use configuration code to set the intercharacter delay to match your system settings. See Settings on page 13.
Scanner beeps three times.	Scanner failed to connect to cradle.	Confirm the cradle is powered and scan the QuickConnect Code on the base with the scanner.
	Barcode read but data did not transfer.	
Scanner will not pair with Bluetooth device.	Bluetooth not supported on device or not paired with scanner.	Confirm that device is Bluetooth connected and paired with scanner.

Problem	Cause	Corrective Action
Scanner beeps and vibrates four times after scanning configuration code.	Scanner successfully decodes but fails to process configuration code.	Make sure to use the correct configuration codes for the scanner.
Scanner is beeping.	Scanner is being paged.	Pull the trigger on the scanner.
Paging button does not work.	Scanner is out of range of the cradle.	Move the scanner into range (196 ft [60 m]) of the cradle.
	Paging button was not pressed long enough.	Press the paging button for one full second.
Wireless LED flashes once per second and data does not transfer.	Cradle is attempting to connect with scanner.	Move the scanner into range of the cradle.

Alerts

Scanner

Status	Visual	Audio	Vibration
Powers up successfully.	LED on the scanner flashes green one time.	One beep	One vibration
Connects to host successfully.	NA	One beep	NA
Connected to host.	LED on cradle shows steady illumination.	NA	NA
Fails to connect to host or goes out of range.	LED blinks red	Three beeps	Three vibrations
Decodes and transfers data to host.	LED on scanner flashes green one time and then illuminated steadily until transfer is complete.	One beep	One vibration
Decodes but fails to transfer data to host.	LED on scanner flashes green one time and then flashes red three times.	Three beeps	One vibration
Successfully decodes and processes configuration code.	LED on the scanner flashes green one time.	Two beeps	Two vibrations
Successfully decodes but fails to process configuration code.	LED on scanner flashes green one time and then flashes red three times.	Four beeps	Four vibrations

Status	Visual	Audio	Vibration
Scanner is paged by cradle.	LEDs flash white on cradle and scanner.	Beeps continuously until the trigger is pulled or paging times out.	Scanner continuously vibrates until trigger is pulled or paging times out.
Installing a file.	LED on scanner blinks green.	Beeps upon completion.	NA
Installing a firmware upgrade.	LED on scanner flashes amber and then reboots.	NA	NA

Cradle

Status	Visual
No power	LED is not illuminated
Foreign object or misalignment in charger prevents battery from charging	Red LED flashes on and off every second
Powered but not connected to host	Green LED flashes on and off every second
Scanner in the cradle with battery charging	Green LED flashes on and off every second
Scanner in the cradle with battery fully charged	Green LED shows steady illumination
Attempts to connect to scanner	Bluetooth icon on cradle flashes on and off when not connected
Connected to scanner	Bluetooth icon on cradle shows steady illumination
Page issued to connected scanner	LEDs flash white continuously
Page issued to a scanner that is not connected	LEDs briefly, rapidly flash white while the paging button is being pressed

Charging Station

Status	Visual
If the battery charging temperature range has not been exceeded, contact Technical Support on page iv.	Red LED flashes on and off every second
Battery is charging	Green LED flashes on and off every second
Battery is fully charged	Green LED shows steady illumination

A Regulatory Compliance

Agency Compliance and Approvals

United States

FCC Notice

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.

Industry Canada (IC)

This device complies with Industry Canada license-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.

Industrie Canada (IC)

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.

Mexico

IFT notice: La operación de este equipo está sujeta a las siguientes dos condiciones: (1) es posible que este equipo o dispositivo no cause interferencia perjudicial y (2) este equipo o dispositivo debe aceptar cualquier interferencia, incluyendo la que pueda causar su operación no deseada.

Europe

WARNING! This is a Class B product. In a domestic environment, this product may cause radio interference in which case the user may be required to take adequate measures.

Waste Electrical and Electronic Equipment Directive
In accordance with the European WEEE Directive, this device needs to be recycled in accordance with local regulations.

RoHS Directive 2011/65/EU, 2015/863/EU

This product is CE marked and complies with the European Union's Directive 2011/65/EU OF THE EUROPEAN PARLIAMENT AND OF THE COUNCIL of 8 June 2011 on the restriction of the use of certain hazardous substances in electrical and electronic equipment.

EU Directive 2015/863 of 31 March 2015 (RoHS 3) amends Annex II to Directive 2011/65/EU of the European Parliament and of the Council as regards the list of restricted substances.

Batteries Directive 2006/66/EC

This product contains a lithium ion rechargeable battery pack. The crossed-out wheeled bin shown to the left is used to indicate 'separate collection' for all batteries and accumulators in accordance with European Directive 2006/66/EC. Users of batteries must not dispose of batteries as unsorted municipal waste. This Directive determines the framework for the return and recycling of used batteries and accumulators that are to be collected separately and recycled at end of life. Please dispose of the battery according to your local regulations.

Notice to Recyclers

1. Follow the instructions in this manual to remove the lithium ion battery pack.
2. Dispose of in accordance with local regulations.

Turkey

Turkish Ministry of Environment and Forestry

(Directive on the Restriction of the use of certain hazardous substances in electrical and electronic equipment).

Türkiye Cumhuriyeti: EEE Yönetmeliğine Uygundur

Wireless Regulatory Information

Regulatory markings, subject to country certification, are applied to the cradle and scanner signifying Bluetooth (radio) approval has been obtained.

WARNING! Operation of the device without regulatory approval is illegal.

Radio protocol	Bluetooth Classic
RF Operating Frequency	2.402 – 2.480 GHz
RF Output Power	< +20dBm EIRP (100mW)
Antenna Type \ Antenna Gain	PCB trace antenna \ -3.06 dBi
Environmental Operation	-40 to 85° C (-40° to 185° F) **Note:** Be mindful of the maximum operating temperatures for the equipment.
Environmental Storage	-55 to 125° C (-67° to 257° F) **Note:** Be mindful of the maximum storage temperatures for the equipment.

United States

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 when the equipment is operated in a commercial environment. This equipment generates, uses, and can radiate radio frequency energy and, if not installed and used in accordance with the instruction manual, may cause harmful interference to radio communications.

Operation of this equipment in a residential area is likely to cause harmful interference in which case the user will be required to correct the interference at their own expense.

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

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.

RF exposure guidelines / Important note: This equipment complies with FCC SAR exemption limits set forth for an uncontrolled environment and properly used as instructed.

Canada

Innovation, Science and Economic Development (ISED)

CAN ICES-3 (A)/NMB-3(A)

This device complies with Industry Canada's license-exempt RSSs. 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.

RF exposure guidelines / Important note: This equipment complies with IC radiation exposure exemption limits set forth for an uncontrolled environment and properly used as instructed.

Le présent appareil est conforme aux CNR Innovation, Sciences et Développement économique 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;
2. l'utilisateur de l'appareil doit accepter tout brouillage radioélectrique subi, même si le brouillage est susceptible d'en compromettre le fonctionnement.

Directives sur l'exposition RF/ remarques importantes : cet équipement est conforme aux limites d'exposition aux rayonnements ISED définies dans la norme RSS-102 établies pour un environnement non contrôlé lorsqu'il est correctement utilisé selon les instructions.

European Union

This is a Class B product. In a domestic environment, this product may cause radio interference in which case the user may be required to take adequate measures.

Radio Equipment Directive (RED) 2014/53/EC

a. Frequency band(s) in which the radio equipment operates; 2.401GHz to 2.483GHz
b. Maximum radio-frequency power transmitted in the frequency band(s) in which the radio equipment operates; < +20dBm EIRP (100mW)

Mexico

IFT notice:

"La operación de este equipo está sujeta a las siguientes dos condiciones: (1) es posible que este equipo o dispositivo no cause interferencia perjudicial y (2) este equipo o dispositivo debe aceptar cualquier interferencia, incluyendo la que pueda causar su operación no deseada."

International

The BLE radio module used in Brady barcode scanners comply with internationally recognized standards covering human exposure to electromagnetic fields, i.e. EN 62311 "Assessment of electronic and electrical equipment related to human exposure restrictions for electromagnetic fields (0 Hz - 300 GHz)".

B Licensing

THIRD-PARTY LICENSE DECLARATIONS

This document contains license declarations for third-party components integrated within the firmware of this barcode reader. These declarations are provided in accordance with the terms and conditions of the respective third-party licensors, ensuring compliance with their licensing requirements. The rights, permissions, and licenses detailed herein are applicable exclusively to the specified third-party components. They do not apply to any firmware or software elements developed by Brady Corporation or The Code Corporation.

The firmware within this barcode reader uses the GNU Compiler Collection component named **arm-none-eabi-gcc**, version 4.4.0. This component is licensed under the GNU General Public License, version 3 (GPLv3). Other licenses used in **arm-none-eabi-gcc**, version 4.4.0 are available here.

In compliance with the GPLv3, we hereby inform users that the source code of **arm-none-eabi-gcc**, version 4.4.0 is available for access and use under the terms of the GPLv3. A copy of this source code is available here.

The firmware within this barcode reader is based in part on the work of the Independent JPEG Group.

The firmware within this barcode reader uses certain components from **SpiderMonkey**, Mozilla's JavaScript and WebAssembly Engine, which is licensed under the Mozilla Public License (MPL) v1.1. In compliance with the MPL v1.1, we hereby inform users that the source code of these components (i.e., the components in the firmware that are taken from the Mozilla SpiderMonkey JavaScript engine) is available for access and use under the terms of the MPL v1.1. A copy of this source code is available here.

Some of the components from **SpiderMonkey** have been modified slightly for use in the firmware within this barcode reader. The source code of these modified components is also available for access and use under the terms of the MPL v1.1. To obtain a copy of the modified source code corresponding to these components, please contact info@codecorp.com.

The firmware within this barcode reader uses components from the nRF5 SDK provided by Nordic Semiconductor, Inc. The licenses used in the nRF5 SDK are available here.

The firmware within this barcode reader uses a component named **Anchor**, which is a collection of embedded firmware libraries used for a console application. The following statements are provided in accordance with this component's license terms:

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>
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The above copyright notice and this permission notice shall be included in all copies or substantial portions of the Software.

The firmware within this barcode reader uses a component named **queue.h**, which is a list and queue library. The following statements are provided in accordance with this component's license terms:

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The firmware within this barcode reader uses a component named **JSON 3**, which is a JavaScript JSON parser and serializer. The following statements are provided in accordance with this component's license terms:

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The above copyright notice and this permission notice shall be included in all copies or substantial portions of the Software.

The firmware within this barcode reader uses a component named **CPU Jitter Entropy**, which is a CPU jitter random number generator. The following statements are provided in accordance with this component's license terms:

Copyright Stephan Mueller <smueller@chronox.de>, 2013 - 2019

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