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Motorola, Inc.
One Motorola Plaza
Holtsville, New York 11742-1300
http://www.motorola.com/enterprisemobility

Warranty

For the complete Motorola hardware product warranty statement, go to: http://www.motorola.com/enterprisemobility/warranty.
Introduction

The Symbol CS3000 Series scanner captures and stores bar codes for a variety of uses, and transmits bar code data to a host via USB connection or Bluetooth.

This document provides basic instructions for setting up, programming, and using the CS3000 series scanners. The scanner is available in the following configurations:

- CS3000 - USB (batch), 0.5 GB Flash
- CS3070 - USB (batch) and Bluetooth, 0.5 GB Flash

Each scanner includes a USB host cable. A charging cradle is also available for mounting, charging, and host connection.
Charging

To charge the CS3000 series scanner, connect it to a host PC via the USB host cable or charging cradle. No power supply is necessary. Charge time is approximately three hours for a fully discharged battery.

**Charging via USB Host Cable**

1. Remove the protective cover from the scanner.

2. Insert the mini-USB connector on the host cable in the interface port on the scanner.

3. Connect the other end of the host cable to a USB port on the host PC.
Charging via Charging Cradle

1. Insert the cradle’s USB connector into a USB port on the host PC.

2. Remove the protective cover from the scanner.

3. Place the scanner in the cradle, ensuring the mini-USB connector in the cradle inserts into the interface port on the scanner.
Connecting to a Host

Batch Connection

See Charging on page 4 for instructions on connecting the scanner to a host PC via USB.

Note To enter batch scanning mode, the scanner cannot be paired to a Bluetooth host (applies to CS3070 model only).

Bluetooth Connection

Pairing

For RF-enabled scanners, to pair to a Bluetooth-enabled host:

Note If the host does not support Bluetooth communication, a third-party Bluetooth adapter is required.

1. Press the scan button (+) to wake the scanner.

2. Press and hold the Bluetooth button (round button with Motorola logo) for five seconds. The scanner beeps and the Bluetooth button starts blinking quickly to indicate that the scanner is discoverable by the host.

3. On the host PC, launch the third party Bluetooth pairing application and place the application into discover Bluetooth device mode.
4. Select the CS3070 from the discovered device list. The Bluetooth application may prompt you to scan a passkey it generated, or for you to create and then scan a pin.

5. Scan *Numeric Bar Codes on page 8* corresponding to the passkey, then scan *Enter on page 9*.

The Bluetooth button blinks slowly to indicate that the scanner paired with the host.

✓ **Note** Bluetooth pairing suspends temporarily while charging via a USB cable. Disconnecting the cable re-establishes the Bluetooth pairing.

**Unpairing**

To unpair the scanner and host, press the Bluetooth button. Upon unpairing, the Bluetooth button stops blinking.

✓ **Note** To enter batch scanning mode, the scanner cannot be paired to a Bluetooth host (applies to CS3070 model only).
Symbol CS3000 Series

Numeric Bar Codes

0

1

2

3

4

5
Enter
Bluetooth Communication Options

To set up the scanner for communication with a host using standard Bluetooth profiles, scan one of the following bar codes.

- **Serial Port Profile (SPP)** - The scanner connects to the host via Bluetooth and emulates a serial connection. The scanner accepts an incoming connection requested from a Bluetooth host.

- **Bluetooth Keyboard Emulation (HID)** - The scanner connects to the host via Bluetooth and emulates a keyboard. The scanner accepts an incoming connection requested from a Bluetooth host.
Scanning

To scan bar codes:

1. Aim the scanner at the bar code.
2. Press the scan (+) button.
3. Ensure the scan line crosses every bar and space of the symbol.

**RIGHT**

```
012345
```

**WRONG**

```
012345
```
The scanner beeps and the LED turns green to indicate a successful decode. See *User Indications* for beeper and LED definitions.

![Note] The scanner cannot scan bar codes when it is connected to the host via the USB host cable.

**Deleting Bar Codes**

In batch mode, to delete a bar code aim the scanner at the bar code and press the delete ( - ) button.

![Note] Bar codes cannot be deleted in Bluetooth mode.
## User Indications

<table>
<thead>
<tr>
<th>Function</th>
<th>User Action</th>
<th>LED</th>
<th>Beeper</th>
</tr>
</thead>
<tbody>
<tr>
<td>Scan item bar code</td>
<td>Press scan (+) button</td>
<td>Flashing green -&gt; solid green</td>
<td>Short high tone</td>
</tr>
<tr>
<td>Battery status</td>
<td>Hold scan (+) button for 15 seconds</td>
<td>Flashing green: full charge</td>
<td>None</td>
</tr>
<tr>
<td></td>
<td></td>
<td>Flashing amber: &lt;8 hours operating time</td>
<td></td>
</tr>
<tr>
<td></td>
<td></td>
<td>Flashing red: &lt;1 hour operating time</td>
<td></td>
</tr>
<tr>
<td>Delete bar code</td>
<td>Hold delete (-) button (if enabled)</td>
<td>Flashing amber -&gt; solid amber</td>
<td>Short medium tone</td>
</tr>
<tr>
<td>Delete - item doesn't exist</td>
<td>Hold delete (-) button (if enabled)</td>
<td>Flashing amber -&gt; solid red</td>
<td>Long short short</td>
</tr>
<tr>
<td>Clear All</td>
<td>Hold delete (-) button (if enabled) 3 seconds past scan time</td>
<td>Flashing amber -&gt; solid amber</td>
<td>2 long medium tones</td>
</tr>
<tr>
<td>Clear All (with Delete and Clear All disabled)</td>
<td>Hold delete (-) button</td>
<td>None</td>
<td>None</td>
</tr>
<tr>
<td>Function</td>
<td>User Action</td>
<td>LED</td>
<td>Beeper</td>
</tr>
<tr>
<td>----------------------------------------</td>
<td>--------------------------------------</td>
<td>----------------------------------</td>
<td>----------------------</td>
</tr>
<tr>
<td>USB connection to host</td>
<td>Connect scanner to host</td>
<td>Flashing amber - charging; solid green - charged</td>
<td>Low high</td>
</tr>
<tr>
<td>Data protection toggle (when enabled)</td>
<td>Hold both scan (+) and delete (-) buttons for 6 seconds</td>
<td>None -&gt; solid amber</td>
<td>Short long short</td>
</tr>
<tr>
<td>Bluetooth radio enable (discoverable)</td>
<td>Hold Bluetooth button for 5 seconds</td>
<td>Rapidly flashing blue LED</td>
<td>Beep</td>
</tr>
<tr>
<td>Bluetooth radio paired</td>
<td>Slowly flashing blue LED</td>
<td>Short low high</td>
<td></td>
</tr>
<tr>
<td>Bluetooth radio out of host range</td>
<td>Blue LED is off</td>
<td>Short high low</td>
<td></td>
</tr>
<tr>
<td>Bluetooth radio returns to host range</td>
<td>Press any button</td>
<td>Slowly flashing blue LED</td>
<td>Short low high</td>
</tr>
</tbody>
</table>
Transmitting Bar Code Data to Host

Transferring Data from a Batch Scanner

The BarcodeFile.txt file within the `\Scanned Barcodes` directory on the scanner stores scanned (batch) bar code data. Connect the scanner to the host PC via USB host cable or the charging cradle and use Windows Explorer to navigate to the scanner. Copy the bar code data file to the host.

> Note The scanner also supports an autorun feature where the customer can build an autorun.inf file to automatically copy the data to the host upon connection.

To clear the bar code data, delete the BarcodeFile.txt file from the scanner, or scan the Clear Data bar code in the Product Reference Guide.

Transferring Data from an RF Scanner

When the scanner is paired to a host via Bluetooth, data transmits to the host after each scan and is not stored on the scanner unless the scanner moves out of range of the host. In this case, if the scanner does not re-pair with the host within the timeout period, it stores data in a batch file. This data must be manually copied to the host.
## Troubleshooting

<table>
<thead>
<tr>
<th>Problem</th>
<th>Possible Solutions</th>
</tr>
</thead>
<tbody>
<tr>
<td>Laser comes on, but scanner does not decode the bar code.</td>
<td>Ensure the scanner is programmed to read the type of bar code being scanned.</td>
</tr>
<tr>
<td></td>
<td>Ensure the symbol is not defaced. Scan other bar codes of the same bar code type.</td>
</tr>
<tr>
<td></td>
<td>Move scanner closer to or further from bar code.</td>
</tr>
<tr>
<td>Scanner LED turns solid red for a few seconds.</td>
<td>Charge the battery. See <em>Charging on page 4</em>.</td>
</tr>
<tr>
<td>Scanner does not fully charge.</td>
<td>Ensure the scanner is connected to a powered USB hub (5V, 500mA max).</td>
</tr>
<tr>
<td>Bluetooth LED turns off.</td>
<td>Scanner is out of range; move closer to the host and press any button to re-pair with the host.</td>
</tr>
<tr>
<td>Scanner emits long beeps for 5 seconds when scanning a bar code.</td>
<td>Memory is full; download bar code data to the host and clear the memory.</td>
</tr>
</tbody>
</table>
Regulatory Information

This device is approved under the Symbol Technologies brand: Symbol Technologies, Inc., is the Enterprise Mobility business of Motorola, Inc. ("Motorola").

This guide applies to the following Model Numbers: CS3070, CS3000.

Wireless information applies to CS3070 only.

All Motorola/Symbol devices are designed to be compliant with rules and regulations in locations they are sold and will be labeled as required.

Local language translations are available at the following website: http://www.motorola.com/enterprisemobility/support

Any changes or modifications to Motorola/Symbol Technologies equipment, not expressly approved by Motorola/Symbol Technologies, could void the user's authority to operate the equipment.

Bluetooth® Wireless Technology

This is an approved Bluetooth® product. For more information or to view End Product Listing, please visit https://www.bluetooth.org/tpg/listings.cfm

Wireless Device Country Approvals

Regulatory markings, subject to certification, are applied to the device signifying the radio(s) is/are approved for use in the following countries: United States, Canada, and Europe¹.

Please refer to the Symbol Declaration of Conformity (DoC) for details of other country markings. This is available at http://www.motorola.com/doc.

Note¹: For 2.4GHz or 5GHz Products: Europe includes, Austria, Belgium, Bulgaria, Czech Republic, Cyprus, Denmark, Estonia, Finland, France, Germany, Greece, Hungary, Iceland, Ireland, Italy, Latvia, Liechtenstein, Lithuania, Luxembourg, Malta, Netherlands, Norway, Poland, Portugal, Romania, Slovak Republic, Slovenia, Spain, Sweden, Switzerland and the United Kingdom.

Operation of the device without regulatory approval is illegal.
Health and Safety Recommendations

Ergonomic Recommendations

Caution: In order to avoid or minimize the potential risk of ergonomic injury follow the recommendations below. Consult with your local Health & Safety Manager to ensure that you are adhering to your company’s safety programs to prevent employee injury.

- Reduce or eliminate repetitive motion
- Maintain a natural position
- Reduce or eliminate excessive force
- Keep objects that are used frequently within easy reach
- Perform tasks at correct heights
- Reduce or eliminate vibration
- Reduce or eliminate direct pressure
- Provide adjustable workstations
- Provide adequate clearance
- Provide a suitable working environment
- Improve work procedures.

Note: The following section is only applicable for mobile computers.

Vehicle Installation

RF signals may affect improperly installed or inadequately shielded electronic systems in motor vehicles (including safety systems). Check with the manufacturer or its representative regarding your vehicle. You should also consult the manufacturer of any equipment that has been added to your vehicle.

An air bag inflates with great force. DO NOT place objects, including either installed or portable wireless equipment, in the area over the air bag or in the air bag deployment area. If in-vehicle wireless equipment is improperly installed and the air bag inflates, serious injury could result.

Position your device within easy reach. Be able to access your device without removing your eyes from the road.

Note: Connection to an alert device that will cause a vehicle horn to sound or lights to flash, on receipt of a call on public roads, is not permitted.
Safety on the Road

Do not take notes or use the device while driving. Jotting down a "to do" list or flipping through your address book takes attention away from your primary responsibility, driving safely.

When driving a car, driving is your first responsibility - Give full attention to driving. Check the laws and regulations on the use of wireless devices in the areas where you drive. Always obey them.

"The wireless industry reminds you to use your device / phone safely when driving".

Warnings for Use of Wireless Devices

Please observe all warning notices with regard to the usage of wireless devices.

Potentially Hazardous Atmospheres - Vehicles Use

You are reminded of the need to observe restrictions on the use of radio devices in fuel depots, chemical plants etc. and areas where the air contains chemicals or particles (such as grain, dust, or metal powders) and any other area where you would normally be advised to turn off your vehicle engine.

Safety in Aircraft

Switch off your wireless device whenever you are instructed to do so by airport or airline staff. If your device offers a 'flight mode' or similar feature, consult airline staff as to its use in flight.

Wireless devices transmit radio frequency energy and may affect medical electrical equipment.

Safety in Hospitals

Wireless devices should be switched off wherever you are requested to do so in hospitals, clinics or healthcare facilities. These requests are designed to prevent possible interference with sensitive medical equipment.

Pacemakers

Pacemaker manufacturers recommended that a minimum of 15cm (6 inches) be maintained between a handheld wireless device and a pacemaker to avoid potential interference with the pacemaker. These recommendations are consistent with independent research and recommendations by Wireless Technology Research.

Persons with Pacemakers:

- Should ALWAYS keep the device more than 15cm (6 inches) from their pacemaker when turned ON.
- Should not carry the device in a breast pocket.
- Should use the ear furthest from the pacemaker to minimise the potential for interference.
• If you have any reason to suspect that interference is taking place, turn OFF your device.

**Other Medical Devices**

Please consult your physician or the manufacturer of the medical device, to determine if the operation of your wireless product may interfere with the medical device.

⚠️ **RF Exposure Guidelines**

**Safety Information**

Reducing RF Exposure - Use Properly

Only operate the device in accordance with the instructions supplied.

**International**

The device complies with internationally recognized standards covering human exposure to electromagnetic fields from radio devices. For information on "International" human exposure to electromagnetic fields refer to the Motorola/Symbol Declaration of Conformity (DoC) at [http://www.motorola.com/doc](http://www.motorola.com/doc).

**EU**

Handheld Devices

To comply with EU RF exposure requirements, this device must be operated in the hand with a minimum separation distance of 20cm or more from a person's body. Other operating configurations should be avoided.

**US and Canada**

Co-located statement

To comply with FCC RF exposure compliance requirement, the antenna used for this transmitter must not be co-located or operating in conjunction with any other transmitter/antenna except those already approved in this filling.

**Handheld Devices**

To comply with FCC RF exposure requirements, this device must be operated in the hand with a minimum separation distance of 20 cm or more from a person's body. Other operating configurations should be avoided.
**Laser Devices**

Complies with 21CFR1040.10 and 1040.11 except for deviations pursuant to Laser Notice No. 50, dated June 24, 2007.

EN60825-1: 2007

IEC60825-1 (Ed. 2.0)

The laser classification is marked on one of the labels on the device.

Class 1 Laser devices are not considered to be hazardous when used for their intended purpose. The following statement is required to comply with US and international regulations:

**Caution:** Use of controls, adjustments or performance of procedures other than those specified herein may result in hazardous laser light exposure.

**Scanner Labeling**

Use ONLY a LISTED Motorola, Type no. 50-14000 (5Vdc / 0.85A), or PWRS-14000 (5Vdc / 0.85A), or SPN5202C (5Vdc / 0.85A) Direct Plug-In Power supply, marked Class 2 or LPS (IEC60950-1, SELV). Use of Alternative Power Supply will invalidate any approvals given to this unit and may be dangerous.
Batteries

Battery Information

Motorola/Symbol rechargeable battery packs are designed and constructed to the highest standards within the industry. However, there are limitations to how long a battery can operate or be stored before needing replacement. Many factors affect the actual life cycle of a battery pack, such as heat, cold, harsh environmental conditions and severe drops.

When batteries are stored over six (6) months, some irreversible deterioration in overall battery quality may occur. Store batteries at half of full charge in a dry, cool place, removed from the equipment to prevent loss of capacity, rusting of metallic parts and electrolyte leakage. When storing batteries for one year or longer, the charge level should be verified at least once a year and charged to half of full charge.

Replace the battery when a significant loss of run time is detected. For more information on Symbol batteries, please visit: http://mysymbolcare.symbol.com/battery/batbasics1.html

Battery Safety Guidelines

- The area in which the units are charged should be clear of debris and combustible materials or chemicals. Particular care should be taken where the device is charged in a non commercial environment.
- Follow battery usage, storage, and charging guidelines found in the user’s guide.
- Improper battery use may result in a fire, explosion, or other hazard.
- To charge the mobile device battery, the battery and charger temperatures must be between +32 ºF and +113 ºF (0 ºC and +45 ºC)
- Do not use incompatible batteries and chargers. Use of an incompatible battery or charger may present a risk of fire, explosion, leakage, or other hazard. If you have any questions about the compatibility of a battery or a charger, contact Motorola Enterprise Mobility support.
- For devices that utilize a USB port as a charging source, the device shall only be connected to products that bear the USB-IF logo or have completed the USB-IF compliance program.
- Do not disassemble or open, crush, bend or deform, puncture, or shred.
- Severe impact from dropping any battery-operated device on a hard surface could cause the battery to overheat.
- Do not short circuit a battery or allow metallic or conductive objects to contact the battery terminals.
Quick Reference Guide

- Do not modify or remanufacture, attempt to insert foreign objects into the battery, immerse or expose to water or other liquids, or expose to fire, explosion, or other hazard.
- Do not leave or store the equipment in or near areas that might get very hot, such as in a parked vehicle or near a radiator or other heat source. Do not place battery into a microwave oven or dryer.
- Battery usage by children should be supervised.
- Please follow local regulations to promptly dispose of used rechargeable batteries.
- Do not dispose of batteries in fire.
- Seek medical advice immediately if a battery has been swallowed.
- In the event of a battery leak, do not allow the liquid to come in contact with the skin or eyes. If contact has been made, wash the affected area with large amounts of water and seek medical advice.
- If you suspect damage to your equipment or battery, contact Motorola Enterprise Mobility support to arrange for inspection.

Radio Frequency Interference Requirements - FCC

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.
Radio Transmitters (Part 15)

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.

Radio Frequency Interference Requirements - Canada

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.

Radio Transmitters

This device complies with RSS 210 of Industry Canada. 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.

Label Marking: The Term "IC:" before the radio certification only signifies that Industry Canada technical specifications were met.

Marking and European Economic Area (EEA)

Bluetooth® Wireless Technology for use through the EEA has the following restrictions:

Maximum radiated transmit power of 100mW EIRP in the frequency range 2.400 -2.4835 GHz
France, outside usage is restricted to 10mW EIRP
Italy requires a user license for outside usage.

Statement of Compliance for CS3070 Wireless Devices

Motorola/Symbol hereby, declares that this device is in compliance with the essential requirements and other relevant provisions of Directive 1999/5/EC. A Declaration of Conformity may be obtained from http://www.motorola.com/doc.

Statement of Compliance for CS3000

Motorola/Symbol hereby declares that this device is in compliance with all the applicable Directives, 2004/108/EC and 2006/95/EC. A Declaration of Conformity may be obtained from http://www.motorola.com/doc.
Waste Electrical and Electronic Equipment (WEEE)

**English:** For EU Customers: All products at the end of their life must be returned to Motorola for recycling. For information on how to return product, please go to: http://www.motorola.com/recycling/weee.

**Bulgarian:** За клиенти от EC: След края на полезния им живот всички продукти трябва да се връщат на Motorola за рециклиране. За информация относно връщането на продукти, моля отидете на адрес: http://www.motorola.com/recycling/weee.

**Čeština:** Pro zákazníky z EU: Všechny produkty je nutné po skončení jejich životnosti vrátit společnosti Motorola k recyklaci. Informace o způsobu vrácení produktu najdete na webové stránce: http://www.motorola.com/recycling/weee.

**Dansk:** Til kunder i EU: Alle produkter skal returneres til Motorola til recirkulering, når de er udtjent. Læs oplysningerne om returnering af produkter på: http://www.motorola.com/recycling/weee.


**Ελληνικά:** Για πελάτες στην Ε.Ε.: Όλα τα προϊόντα, στο τέλος της διάρκειας ζωής τους, πρέπει να επιστρέφονται στην Motorola για ανακύκλωση. Για περισσότερες πληροφορίες σχετικά με την επιστροφή ενός προϊόντος, επισκεφθείτε τη διεύθυνση http://www.motorola.com/recycling/weee στο Νυφικίο.

**Eesti:** EL klientidele: kõik tooted tuleb nende eluea lõpudes tagastada taaskasutamise eesmärgil Motorola'il. Lisainformatsiooni saamiseks toote tagastamise kohta külastage palun aadressi: http://www.motorola.com/recycling/weee.

**Español:** Para clientes en la Unión Europea: todos los productos deberán entregarse a Motorola al final de su ciclo de vida para que sean reciclados. Si desea más información sobre cómo devolver un producto, visite: http://www.motorola.com/recycling/weee.

**Français:** Clients de l'Union Européenne : Tous les produits en fin de cycle de vie doivent être retournés à Motorola pour recyclage. Pour de plus amples informations sur le retour de produits, consultez : http://www.motorola.com/recycle/weee.

**Italiano:** per i clienti dell'UE: tutti i prodotti che sono giunti al termine del rispettivo ciclo di vita devono essere restituiti a Motorola al fine di consentirne il riciclaggio. Per informazioni sulle modalità di restituzione, visitare il seguente sito Web: http://www.motorola.com/recycling/weee.


Service Information

If you have a problem using the equipment, contact your facility’s Technical or Systems Support. If there is a problem with the equipment, they will contact the Motorola Enterprise Mobility Support at:
http://www.motorola.com/enterprisemobility/contactsupport

For the latest version of this guide go to:
http://www.motorola.com/enterprisemobility/manuals