

MC2200/MC2700

Mobile Computer

Draft V4



ZEBRA

Quick Start Guide

Copyright

ZEBRA and the stylized Zebra head are trademarks of Zebra Technologies Corporation, registered in many jurisdictions worldwide. All other trademarks are the property of their respective owners. ©2020 Zebra Technologies Corporation and/or its affiliates. All rights reserved.

COPYRIGHTS & TRADEMARKS: For complete copyright and trademark information, go to www.zebra.com/copyright.

WARRANTY: For complete warranty information, go to www.zebra.com/warranty.

END USER LICENSE AGREEMENT: For complete EULA information, go to www.zebra.com/eula.

Terms of Use

- Proprietary Statement

This manual contains proprietary information of Zebra Technologies Corporation and its subsidiaries (“Zebra Technologies”). It is intended solely for the information and use of parties operating and maintaining the equipment described herein. Such proprietary information may not be used, reproduced, or disclosed to any other parties for any other purpose without the express, written permission of Zebra Technologies.

- Product Improvements

Continuous improvement of products is a policy of Zebra Technologies. All specifications and designs are subject to change without notice.

- Liability Disclaimer

Zebra Technologies takes steps to ensure that its published Engineering specifications and manuals are correct; however, errors do occur. Zebra Technologies reserves the right to correct any such errors and disclaims liability resulting therefrom.

- Limitation of Liability

In no event shall Zebra Technologies or anyone else involved in the creation, production, or delivery of the accompanying product (including hardware and software) be liable for any damages whatsoever (including, without limitation, consequential damages including loss of business profits, business interruption, or loss of business information) arising out of the use of, the results of use of, or inability to use such product, even if Zebra Technologies has been advised of the possibility of such damages. Some jurisdictions do not allow the exclusion or limitation of incidental or consequential damages, so the above limitation or exclusion may not apply to you.

Unpacking

1. Carefully remove all protective material from the device and save the shipping container for later storage and shipping.
2. Verify that the following were received:
 - Mobile computer
 - PowerPrecision Lithium-ion battery
 - Regulatory Guide.
3. Inspect the equipment for damage. If any equipment is missing or damaged, contact the Global Customer Support center immediately.
4. Prior to using the device for the first time, remove the protective shipping film that covers the scan window, display and camera window.

Features

Front View

Table 1 Front View Features

Number	Item	Function
1	USB-C Connector/Bottom Port	Provides USB host and client communications, and device charging via cables and accessories.
2	Microphone	Use for communications in Handset mode.

Table 1 Front View Features (continued)

Number	Item	Function
3	Power Button	Turns the display on and off. Press and hold to reset the device or power off.
4	Battery/Charging Status LED or Charging/Notification LED	Indicates battery charging status while charging and application generated notifications.
5	Scan Indicator	Indicates a successful or unsuccessful scan.
6	Touch Screen	Displays all information needed to operate the device.
7	Scan Button	Initiates data capture when a scan application is enabled.

Back View

Table 2 Back View Features

Number	Item	Function
8	Scanner Lens or Exit Window	Provides data capture using the imager.
9	NFC Antenna	Provides communication with other NFC-enabled devices.

Table 2 Back View Features (continued)

Number	Item	Function
10	Camera/Flash	Takes photos and videos. Provides illumination for the camera.
11	Speaker	Provides audio output for video and music playback.
12	Hand Strap Towel Bar or Hand Strap Mount	Provides mounting point for Hand Strap accessory.
13	Back Port	
14	Alignment feature/Latch Recess	
15	Battery	Standard - 3500 mAh (typical) / 3300 mAh (minimum) PowerPrecision Lithium-ion Battery
16	Battery Release Latch	Press to remove the battery.

Setting Up the Device

To start using the device for the first time:

1. Install a micro secure digital (SD) card (optional).
2. **Install a nano SIM card (optional).**
3. Install hand strap (optional).
4. Install the battery.
5. Install the trigger handle (optional).
6. Charge the device.
7. Power on the device.

Installing a microSD Card

The microSD card slot provides secondary non-volatile storage. The slot is located under the battery pack. Refer to the documentation provided with the card for more information, and follow the manufacturer's recommendations for use.



CAUTION: Follow proper electrostatic discharge (ESD) precautions to avoid damaging the microSD card. Proper ESD precautions include, but are not limited to, working on an ESD mat and ensuring that the operator is properly grounded.

1. Remove the battery.
2. Slide the microSD card holder to the unlock position.
3. Lift the microSD card holder.

4. Insert the microSD card into the card holder door ensuring that the card slides into the holding tabs on each side of the door.
5. Close the microSD card holder and slide into the lock position.
6. Replace the battery.

Installing the SIM Card



NOTE: Only use a nano SIM card. Not applicable to MC2200.



CAUTION: For proper electrostatic discharge (ESD) precautions to avoid damaging the SIM card. Proper ESD precautions include, but not limited to, working on an ESD mat and ensuring that the user is properly grounded.

1. Remove the battery.
2. Slide the SIM card holder to the unlock position.
3. Lift the SIM card holder door.
4. Place the nano SIM card into the card holder with contacts facing down.
5. Close the SIM card holder door and slide into the lock position.
6. Replace the battery.

Installing the Hand Strap

Installing the Hand Strap on Device without Trigger Handle

1. Insert the hand strap clip into the bottom of the device.
2. Slide the velcro side through the towel bar then flip to attach the hook to the loop.
3. Adjust the length for comfort and security of the grip.

Installing the Hand Strap on Device with Trigger Handle

1. Loop and tie the tether end of the hand strap with the towel bar.
2. Insert the hand strap clip into the bottom of the device.
3. Adjust the slide button according to wrist size, for comfort and security.

Installing the Battery



NOTE: User modification of the device, particularly in the battery well, such as labels, asset tags, engravings, stickers, etc., may compromise the intended performance of the device or accessories. Performance levels such as sealing (Ingress Protection (IP)), impact performance (drop and tumble), functionality, temperature resistance, etc. could be effected. DO NOT put any labels, asset tags, engravings, stickers, etc. in the battery well.

1. Insert the battery, bottom first, into the battery compartment in the back of the device.
2. Press the battery down into the battery compartment until the battery release latches snap into place.

Installing the Trigger Handle

Installing the Trigger Handle Method A

1. Align the towel bar on the back of the device with the recess on the trigger handle.
2. Rotate the trigger handle down to grab the device.

Installing the Trigger Handle Method B

1. Align the battery finger scoop with the recess on the trigger handle.
2. Rotate the handle down to grab the device.

Removing the Trigger Handle

Reverse the installation to rotate the trigger handle out.

Draft V4

Charging the Device



CAUTION: Ensure that you follow the guidelines for battery safety described in the device Product Reference Guide.

Use one of the following accessories to charge the device and/or spare battery.

Table 3 Accessories

Accessory	Part Number	Description
1-Slot Charge/USB Cradle	CRD-MC2X-1SCU-01	Provides device charging and allows USB Type-C communication to one device. Requires USB-C cable (CBL-TC2X-USBC-01).
1-Slot Charge/Communication Cradle with Spare Battery Charger	CRD-MC2X-2SUCHG-01	Provides device charging and communication, and charging for spare battery. Requires power supply (PWR-BGA12V50W0WW), DC line cord (CBL-DC-388A1-01), and country-specific AC line cord. To enable Ethernet support requires MOD-MT2-EU1-01 sold separately.
4-Slot Charge Only ShareCradle with 4-Slot Battery Charger	CRD-MC2X-4SC4BC-01	Charges up to four devices and four spare batteries. Requires power supply (PWR-BGA12V108W0WW), DC line cord (CBL-DC-381A1-01), and country-specific AC line cord.
5-Slot Charge Only ShareCradle	CRD-MC2X-5SCHG-01	Charges up to five devices. Requires power supply (PWR-BGA12V108W0WW), DC line cord (CBL-DC-381A1-01), and country-specific AC line cord.
4-Slot Battery Charger	SAC-MC2X-4SCHG-01	Charges up to four spare batteries. Supports standard and extended capacity batteries.
USB-C Cable	CBL-TC2X-USBC-01	Provides UBC-A to USB-C communication and power to the device. Use with 1-Slot Charge/USB Cradle.

Main Battery Charging

To charge a device:

1. Insert the device into a slot to begin charging.
2. Ensure the device is seated properly.

The device's Charging/Notification LED indicates the status of the battery charging in the device. The standard battery charges from fully depleted to 90% in approximately **three hours**.

NOTE: In many cases the 90% charge provides plenty of charge for daily use.

To achieve the best fast charging results use only Zebra charging accessories and batteries. Charge batteries at room temperature with the device in sleep mode.

Table 4 Charging/Notification LED Charging Indicators

State	Indication
Off	Device is not charging. Device is not inserted correctly in the cradle or connected to a power source. Charger/cradle is not powered.
Slow Blinking Amber (1 blink every 4 seconds)	Device is charging.
Slow Blinking Red (1 blink every 4 seconds)	Device is charging but the battery is at end of useful life.
Solid Green	Charging complete.
Solid Red	Charging complete but the battery is at end of useful life.
Fast Blinking Amber (2 blinks/second)	Charging error, for example: <ul style="list-style-type: none"> • Temperature is too low or too high. • Charging has gone on too long without completion (typically eight hours).
Fast Blinking Red (2 blinks/second)	Charging error but the battery is at end of useful life., for example: <ul style="list-style-type: none"> • Temperature is too low or too high. • Charging has gone on too long without completion (typically eight hours).

Spare Battery Charging

To charge a spare battery:

1. Insert the battery into a battery charging well.
2. Gently press down on the battery to ensure proper contact.

The Spare Battery Charging LED on the cup indicates the status of the spare battery charging. The standard battery charges from fully depleted to 90% in approximately **three hours**.



NOTE: In many cases the 90% charge provides plenty of charge for daily use.

To achieve the best fast charging results use only Zebra charging accessories and batteries. Charge batteries at room temperature with the device in sleep mode.

Table 5 Spare Battery LED Charging Indicators

LED	Indication
Solid Amber	Spare battery is charging.
Solid Green	Spare battery charging is complete.
Solid Red	Spare battery is charging and battery is at the end of useful life. Charging complete and battery is at the end of useful life.
Fast Blinking Red (2 blinks/second)	Error in charging; check placement of spare battery and battery is at the end of useful life.
Off	No spare battery in slot. Spare battery not placed in slot correctly. Cradle is not powered.

Charging Temperature

Charge batteries in temperatures from 5°C to 40°C (41°F to 104°F). The device or accessory always performs battery charging in a safe and intelligent manner. At higher temperatures (e.g. approximately +37°C (+98°F)) the device or accessory may for brief periods of time alternately enable and disable battery charging to keep the battery at acceptable temperatures. The device or accessory indicates when charging is disabled due to abnormal temperatures via its LED and a notification appears on the display.

Draft v4

1-Slot Charge/USB Cradle

Table 6 1-Slot Charge/USB Cradle Features

Number	Item
1	Device Charging Slot

1-Slot Charge/Communication Cradle with Spare Battery Charger

Table 7 1-Slot Charge/Communication Cradle with Spare Battery Charger Features

Number	Item
1	Device Charging Slot
2	Spare Battery Slot

4-Slot Charge Only ShareCradle with 4-Slot Battery Charger

Table 8 4-Slot Charge Only ShareCradle with 4-Slot Battery Charger Features

Number	Item
1	Spare Battery Charging LED
2	Device Charging Slot
3	Spare Battery Slot
4	Power LED

5-Slot Charge Only ShareCradle

Table 9 5-Slot Charge Only ShareCradle Features

Number	Item
1	Device Charging Slot
2	Power LED

4-Slot Battery Charger

Table 10 4-Slot Battery Charger Features

Number	Item
1	Battery Slot
2	Battery Charging LED
3	Power LED

USB Cable

Table 11 USB Cable

Number	Item
1	USB Slot

The USB cable plugs into the bottom of the device. When attached to the device the cable allows charging, transferring data to a host computer, and connecting USB peripherals.

Scanning

The device offers the following data capture options:

- SE4710

Scanning with Internal Imager

To read a barcode, a scan-enabled app is required. The device contains the DataWedge app that allows the user to enable the imager, decode the barcode data, and display the barcode content.

To scan with the internal imager:

1. Ensure that an app is open on the device and a text field is in focus (text cursor in text field).
2. Point the exit window on the top of the device at a barcode.
3. Press and hold the scan button.
The red laser aiming pattern turns on to assist in aiming.



NOTE: When the device is in Picklist mode, the imager does not decode the barcode until the crosshair or aiming dot touches the barcode.

4. Ensure the barcode is within the area formed by the crosshairs in the aiming pattern. The aiming dot increases visibility in bright lighting conditions.

Figure 1 Aiming Pattern

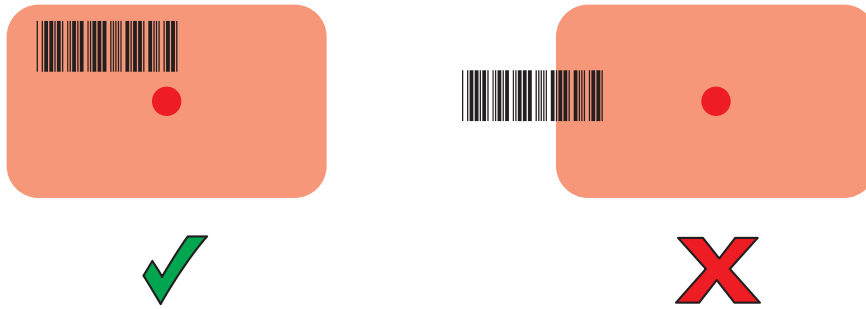
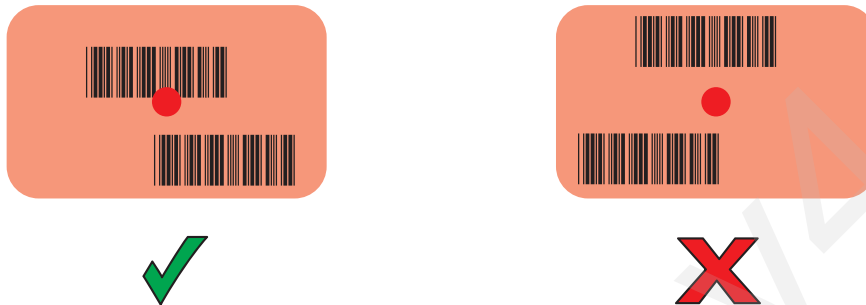


Figure 2 Pick List Mode with Multiple Barcodes



5. The Data Capture LED lights green and a beep sounds, by default, to indicate the barcode was decoded successfully.
6. Release the scan button.



NOTE: Imager decoding usually occurs instantaneously. The device repeats the steps required to take a digital picture (image) of a poor or difficult barcode as long as the scan button remains pressed.

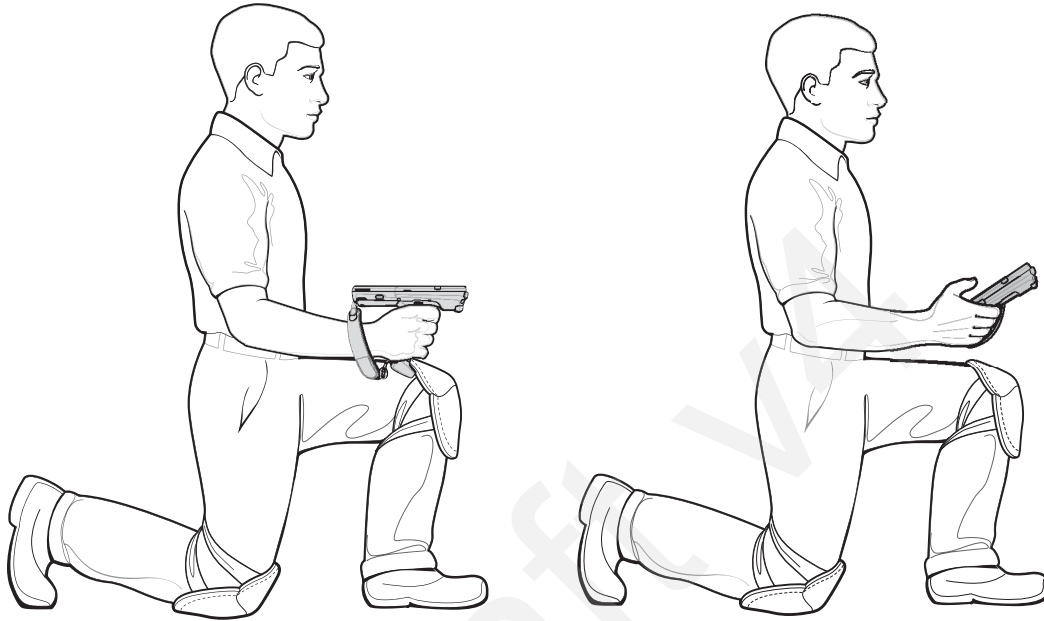
7. The barcode content data displays in the text field.

Ergonomic Considerations

Taking breaks and task rotation is recommended.

Optimize Body Posture for Low Scanning

Figure 3 Low Scanning



Alternate left and right knees.

Optimize Body Posture for High Scanning

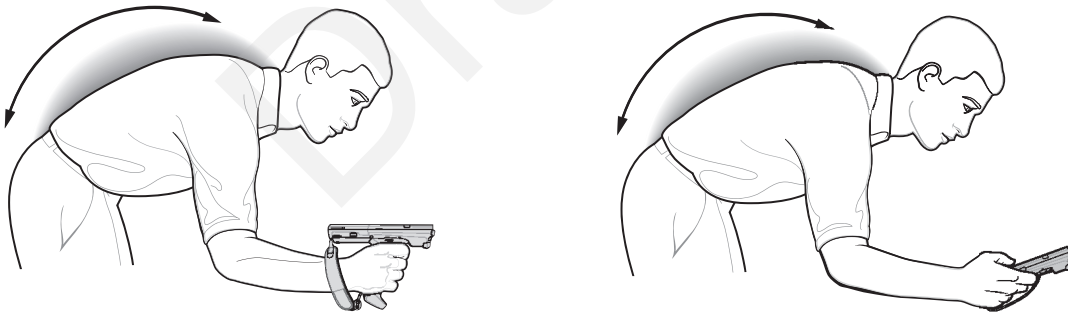
Figure 4 High Scanning



Alternate left and right hand.

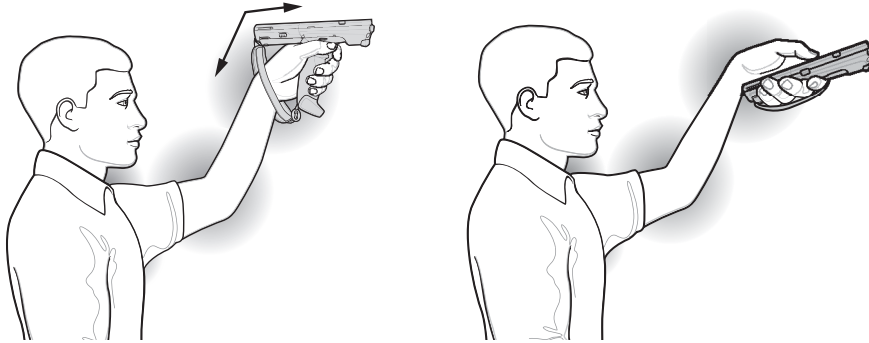
Avoid Bending

Figure 5 Avoid Bending



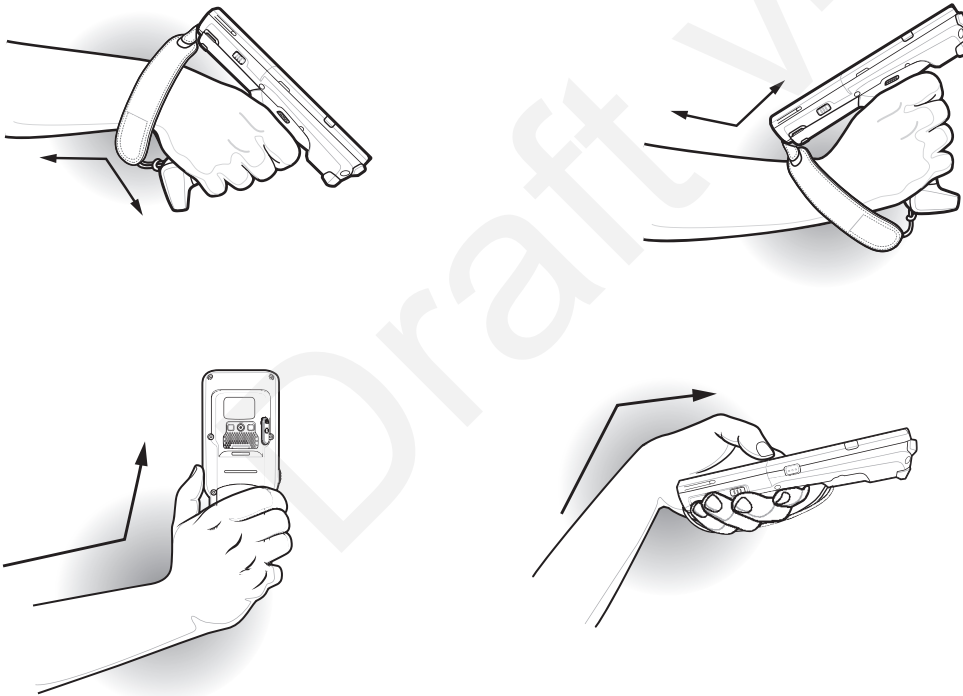
Avoid Reaching

Figure 6 Avoid Reaching



Avoid Extreme Wrist Angles

Figure 7 Avoid Extreme Wrist Angles



Draft v4

Draft v4

Draft v4

Draft v4

Draft v4

Draft v4

Draft V4