## REVISION HISTORY

<table>
<thead>
<tr>
<th>Revision</th>
<th>Eng.</th>
<th>Date</th>
<th>Description</th>
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<tbody>
<tr>
<td>Draft</td>
<td>Hector Amores</td>
<td>05/22/20</td>
<td>Draft.</td>
</tr>
<tr>
<td>A</td>
<td>Cameron Cole / Hector Amores / Bill Yu</td>
<td>12/21/2020</td>
<td>Initial release per CO-21-0196.</td>
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Section 1

Introduction
Product Description

Your new Elo Mobile computer combines the reliable performance from Elo with the latest developments in touchscreen technology and display design. This combination of features creates a natural flow of information between a user and the Handheld system.

Overview – Specifications

<table>
<thead>
<tr>
<th>Feature</th>
<th>M50 (Wi-Fi SKU)</th>
<th>M50C (WWAN SKU)</th>
</tr>
</thead>
<tbody>
<tr>
<td>Operating System</td>
<td>Android 10</td>
<td>Android 10</td>
</tr>
<tr>
<td>Processor</td>
<td>Qualcomm SDA660</td>
<td>Qualcomm SDA660</td>
</tr>
<tr>
<td>Memory</td>
<td>4GB RAM</td>
<td>4GB RAM</td>
</tr>
<tr>
<td>Internal Storage</td>
<td>64GB NAND flash memory</td>
<td>64GB NAND flash memory</td>
</tr>
<tr>
<td>Display</td>
<td>5.5”, 1280*720</td>
<td>5.5”, 1280*720</td>
</tr>
<tr>
<td>Touch Screen</td>
<td>Capacitive touch, 2-touch minimum</td>
<td>Capacitive touch, 2-touch minimum</td>
</tr>
<tr>
<td>Rear Camera</td>
<td>8MP - 3264*2448, Auto Focus</td>
<td>8MP - 3264*2448, Auto Focus</td>
</tr>
<tr>
<td>Micro-SD + Nano SIM Card</td>
<td>Combination for Micro SD (up to 128GB) and SIM card</td>
<td>Combination for Micro SD (up to 128GB) and SIM card</td>
</tr>
<tr>
<td>Wi-Fi + Bluetooth</td>
<td>IEEE 802.11a/b/g/n/ac + Bluetooth 5.0 with BLE</td>
<td>IEEE 802.11a/b/g/n/ac + Bluetooth 5.0 with BLE</td>
</tr>
<tr>
<td>Cellular + GPS</td>
<td>NA</td>
<td>LTE/4G/3G + GPS/GLONASS/Galileo/BeiDou</td>
</tr>
<tr>
<td>Microphone</td>
<td>Sensitivity of -44dB (0dB=1V/Pa) min.</td>
<td>Sensitivity of -44dB (0dB=1V/Pa) min.</td>
</tr>
<tr>
<td>Speaker</td>
<td>1x 1W RMS MONO</td>
<td>1x 1W RMS MONO</td>
</tr>
<tr>
<td>Main Battery</td>
<td>Single cell, 3.8V/4000mAh minimum</td>
<td>Single cell, 3.8V/4000mAh minimum</td>
</tr>
<tr>
<td>USB Port</td>
<td>Type-C</td>
<td>Type-C</td>
</tr>
<tr>
<td>NFC</td>
<td>ISO 14443 Type A/B ISO 15693 ISO 18092 R/W MIFARE</td>
<td>ISO 14443 Type A/B ISO 15693 ISO 18092 R/W MIFARE</td>
</tr>
<tr>
<td>Barcode Scanner</td>
<td>1D / 2D Imager</td>
<td>1D / 2D Imager</td>
</tr>
<tr>
<td>Ambient Light Sensor</td>
<td>Up to 75k Lux</td>
<td>Up to 75k Lux</td>
</tr>
<tr>
<td>G-Sensor</td>
<td>+/- 15° Accuracy minimum</td>
<td>+/- 15° Accuracy minimum</td>
</tr>
</tbody>
</table>
Features: Elo Mobile Computer M50/M50C

- Power LED
- Function LED
- Ambient Light Sensor
- Touch Screen
- Integrated Barcode Scanner
- Speaker
- Power Button
- Function Button Trigger Volume Up
- Function Button Trigger Volume Down
- Hand Strap Mount (Top)
- Hand Strap Mount (Bottom)
- Camera
- Flash
- Battery Latch
- Battery & NFC
- USB-C
- Microphone
Section 2

Getting Started
Unpacking
Verify that the box contains:

- Elo Mobile Computer
- Charger (USB-C Type)
- Battery
- Quick Install Guide

Remove all protective material from the device.
Inspect the device for damage.
Report immediately if computer is damage and with missing items as listed above.

Note: Before using the device for the first time fully charge the battery.

Battery Safety Precautions

⚠️ The battery stores a large amount of energy in small amount of space. Replace the battery with same type only. Improper replacement of battery may cause risk of burns, fire, and explosions. Do not open, crush, bend, puncture, shred, heat above 60˚ C / 140˚ F or incinerate. Risk of fire and burns if improperly handled. Do not short circuit, immerse the battery to liquid, or attempt to insert any foreign object to the battery. Avoid storing under direct sunlight. If there is a serious swelling of the battery, do not continue using. Dispose the battery according to local regulations.

Battery Information / Specification

- Rechargeable Li-ion Polymer Battery
- Nominal Voltage: 3.8Vdc
- Limited Charging Voltage: 4.35Vdc
- Maximum Charging Current: 4A
- Minimum Capacity: 4000mAh 15.2Wh
Battery Installation

- Insert the battery, start from the bottom first, then slide the battery down into the compartment then push.

- While pressing down slide the battery lock to the left (into the locked position) to secure the battery.

  **Note:** Press the upper left corner of battery cover tightly then latch the battery lock.

  In order to protect the M50/M50C and maintain IP65 ingress protection, check the battery after drops, or large impacts. Be sure the battery is secured properly, and no gaps are visible between the back cover and battery cover.
Battery Un-installation

- Shutdown the system. Refer on power status on this user manual for proper system shutdown.
- Remove the battery from the device.
- Slide the latch to the right to unlock the battery.

- Lift-up the battery, then slide up away from the compartment.
Micro SD & Nano Sim Card Installation

- First save files and shutdown the computer.
- Remove the battery. Refer on battery un-installation section of this user manual.
- Pull and slide down the Micro SD + Nano Sim carrier located on the upper right side of the battery compartment.

- Place the Micro SD and/or the Nano Sim card into the carrier with contact side face down.

- Insert the carrier back into the Micro SD card compartment.

- Reinstall the battery. Refer on battery installation section of this user manual.
Charging System & Power

**Charging the Handheld computer through USB type C Port**

The Elo Mobile Computer is powered by a rechargeable battery (Li-ion polymer Battery). A charger (USB C type wall adapter) is included with the computer.

With Qualcomm Quick Charger 4.0 a charge to 90% will take about 60 – 90 minutes.

**Charging Safety Features:**
- Over charge/discharge protection
- Over current/short-circuit protection
- Temperature monitoring/Over temperature protection.
  - The handheld computer charger is design to stop charging when battery reaches the temperature of 43°C.

**Battery Status / Descriptions**

<table>
<thead>
<tr>
<th>Status</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>Battery is charging</td>
<td>Power ON, battery charging disabled</td>
</tr>
<tr>
<td>Battery is partially drained</td>
<td>Power ON, battery charging enabled</td>
</tr>
<tr>
<td>Battery is full</td>
<td></td>
</tr>
<tr>
<td>Battery at 50%</td>
<td></td>
</tr>
<tr>
<td>Battery very low at 15%</td>
<td></td>
</tr>
<tr>
<td>Battery Saver is ON</td>
<td></td>
</tr>
</tbody>
</table>

**Power Button**

*Note:* If any reason the device does not display video while it is charging. Press the power button once and if battery icon appears into the display screen it means it is in the OFF state.

- To turn ON the power of Elo Mobile Computer press and hold power button for 2 seconds.
- To Shut down or Restart, press and hold the power button for more than 5 seconds and follow the on-screen display menu.
- To force the system to Shutdown, press and hold the power button for 12 seconds.
- To bring the system out of sleep/standby mode, press the power button once or touch the screen.

**Power LED Status**

<table>
<thead>
<tr>
<th>POWER LED STATUS</th>
<th>DESCRIPTION</th>
</tr>
</thead>
<tbody>
<tr>
<td>OFF</td>
<td>OFF</td>
</tr>
<tr>
<td>Solid Green</td>
<td>Power ON, battery charging disabled</td>
</tr>
<tr>
<td>Solid Amber</td>
<td>Power ON, battery charging enabled</td>
</tr>
</tbody>
</table>
Power / Function Buttons Features and Gestures

**Power button On-Screen display menu features**

If the power button is pressed for more than 5 seconds, a pop-up screen menu will appear.

---

### Android Home

- **Power off**
  - For shutting down the system
- **Restart**
  - For rebooting the system
- **Bug report**
  - For Bug Report
- **Screenshot**
  - For taking screenshot
- **Emergency**
  - For Emergency calling

### EloView

- **Power off**
  - For shutting down the system
- **Restart**
  - For rebooting the system

---

### Gestures

**Note:** The following gesture will only work if the trigger buttons are set as “Volume up and down”. See [Key Remap](#) from Android Settings.

- Pressing power button twice will activate Camera.
  - To enable or disable this feature see [Android Settings on System → Gesture on this user manual](#).
- Pressing power button + Volume Up will activate notification volume to vibrate or Mute depending on the settings.
  - To enable or disable this feature see [Android Settings on System → Gesture on this user manual](#).
- Pressing power button + Volume Down will activate screenshot.
## Status Bar Icons and Definition

<table>
<thead>
<tr>
<th>Icon</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>☑</td>
<td>Connected to GPRS mobile network</td>
</tr>
<tr>
<td>☑</td>
<td>GPRS in use</td>
</tr>
<tr>
<td>☑</td>
<td>Connected to EDGE mobile network</td>
</tr>
<tr>
<td>☑</td>
<td>EDGE in use</td>
</tr>
<tr>
<td>☑</td>
<td>Connected to 3G mobile network</td>
</tr>
<tr>
<td>☑</td>
<td>3G in use</td>
</tr>
<tr>
<td>☑</td>
<td>Mobile network signal strength</td>
</tr>
<tr>
<td>☑</td>
<td>Connected to a Wi-Fi network</td>
</tr>
<tr>
<td>☑</td>
<td>Bluetooth is on</td>
</tr>
<tr>
<td>☑</td>
<td>Connected to a Bluetooth device</td>
</tr>
<tr>
<td>☑</td>
<td>Airplane mode</td>
</tr>
<tr>
<td>☑</td>
<td>Alarm is set</td>
</tr>
<tr>
<td>☑</td>
<td>Speakerphone is on</td>
</tr>
<tr>
<td>☑</td>
<td>New GMail message</td>
</tr>
<tr>
<td>☑</td>
<td>New text or multimedia message</td>
</tr>
<tr>
<td>☑</td>
<td>Problem with text or multimedia message delivery</td>
</tr>
<tr>
<td>☑</td>
<td>New Google Talk message</td>
</tr>
<tr>
<td>☑</td>
<td>New voicemail</td>
</tr>
<tr>
<td>☑</td>
<td>Upcoming event</td>
</tr>
<tr>
<td>☑</td>
<td>Data is syncing</td>
</tr>
<tr>
<td>☑</td>
<td>Problem with sign-in or sync</td>
</tr>
<tr>
<td>☑</td>
<td>SD card or USB storage is full</td>
</tr>
<tr>
<td>☑</td>
<td>An open Wi-Fi network is available</td>
</tr>
<tr>
<td>☑</td>
<td>Phone is connected via USB cable</td>
</tr>
<tr>
<td>☑</td>
<td>Phone is sharing its data connection via USB (USB tethering)</td>
</tr>
<tr>
<td>☑</td>
<td>Phone is sharing its data connection as a Wi-Fi hotspot (Wi-Fi tethering)</td>
</tr>
<tr>
<td>☑</td>
<td>Phone is tethered in multiple ways</td>
</tr>
<tr>
<td>☑</td>
<td>Roaming</td>
</tr>
<tr>
<td>☑</td>
<td>No signal</td>
</tr>
<tr>
<td>☑</td>
<td>No SIM card installed</td>
</tr>
<tr>
<td>☑</td>
<td>Vibrate mode</td>
</tr>
<tr>
<td>☑</td>
<td>Ringer is silenced</td>
</tr>
<tr>
<td>☑</td>
<td>Phone microphone is mute</td>
</tr>
<tr>
<td>☑</td>
<td>Battery is very low</td>
</tr>
<tr>
<td>☑</td>
<td>Battery is low</td>
</tr>
<tr>
<td>☑</td>
<td>Battery is partially drained</td>
</tr>
<tr>
<td>☑</td>
<td>Battery is full</td>
</tr>
<tr>
<td>☑</td>
<td>Battery is charging</td>
</tr>
<tr>
<td>☑</td>
<td>GPS is on</td>
</tr>
<tr>
<td>☑</td>
<td>Receiving location data from GPS</td>
</tr>
<tr>
<td>☑</td>
<td>More notifications</td>
</tr>
<tr>
<td>☑</td>
<td>Call in progress</td>
</tr>
<tr>
<td>☑</td>
<td>Call in progress using a Bluetooth headset</td>
</tr>
<tr>
<td>☑</td>
<td>Missed call</td>
</tr>
<tr>
<td>☑</td>
<td>Call on hold</td>
</tr>
<tr>
<td>☑</td>
<td>Call forwarding is on</td>
</tr>
<tr>
<td>☑</td>
<td>Song is playing</td>
</tr>
<tr>
<td>☑</td>
<td>Uploading data</td>
</tr>
<tr>
<td>☑</td>
<td>Downloading data</td>
</tr>
<tr>
<td>☑</td>
<td>Download finished</td>
</tr>
<tr>
<td>☑</td>
<td>Connected to or disconnected from virtual private network (VPN)</td>
</tr>
<tr>
<td>☑</td>
<td>Carrier data usage threshold approaching or exceeded</td>
</tr>
<tr>
<td>☑</td>
<td>Application update available</td>
</tr>
<tr>
<td>☑</td>
<td>System update available</td>
</tr>
</tbody>
</table>
About Touch Gestures

**Tap**
Briefly touch surface with fingertip

**Press**
Touch surface for an extended period of time.

**Press and Hold / Touch and Hold**
Touch surface for an extended period of time and continue to hold the finger against the screen.

**Drag**
Move fingertip over surface without losing contact.

**Flick**
Quickly swipe surface with fingertip.

**Spread – Zoom in**
Touch surface with two fingers and move them apart.

**Pinch – Zooming out**
Touch surface with two fingers and bring them closer together.
Out of Box Experience (OOBE)

Step 1:
• Tap anywhere to proceed with set up.

Step 2:
• Connect to Wi-Fi or tap “Set up offline” to skip Wi-Fi set up.
• To enroll with EloView you must connect to Wi-Fi.

Step 3:
• Choose the following set up method.
• Follow on-screen instruction to complete the set up.
Elo Hub Home Screen

The Elo Hub Home Screen is the starting point for navigating the device. You can place your favorite apps and widgets here.

Note: The images below may appear different from the actual computer.

**Navigation Bar**
- **Recent App** - Return to the previous page.
- **Home** - Return to the home screen.
- **Back** - Switch between recently used apps.
Elo Hub Quick Settings

To access the Quick Settings, tap 3 lines menu from Elo Hub Home Screen. Located on the upper right side.

Settings:
- Wi-Fi
- Bluetooth
- Battery
  - Tap an icon once to enable or disable.
  - Press and hold an icon to access the settings.

Brightness
- Move the slider bar left or right to adjust the brightness level.

Volume
- Move slide bar Left or Right to adjust the volume.

Exit

Settings:
- Wi-Fi
- Bluetooth
- Battery
- Wi-Fi
- Bluetooth
- Battery

Shortcut to Android System Settings

Navigation Bar

Admin Settings
Lock and Home Screens

Note: The images below may appear different from the actual computer.

**Lock Screen**

- **Lock Feature**
- **Time & Date** 21:55

**Home**

- **Notifications**
- **Status Bar**
- **Shortcut Icon**
- **Google apps** (Bundle)
- **Search Bar**
- **Navigation Bar**

**Home Screen** is the starting point for navigating the computer. You can place your favorite apps and widgets here.

- To unlock the screen to **Home Screen**, swipe up on the **Lock Screen**.
  
  Note: The default security is Swipe. Refer to Security settings section in this manual for advanced settings.

- To Lock the screen, press the power button once.

**Navigation Bar**

- **Recent App** - Return to the previous page.
- **Home** - Return to the home screen.
- **Back** - Switch between recently used apps.
Android Notification Panel

The notification panel allows for quick access to setting shortcuts and notification alerts.

Note: The images below may appear different from the actual computer.

To open the Notification Panel

- From the Home Screen, swipe down from the top of the touch screen.
- To clear a single notification alert, drag the notification all the way to the left or right.
- To clear all notification alerts, tap “Clear”.
- To customize notification alerts, drag the notification halfway to the left or right then tap setting.
- To exit tap Navigation Bar feature or swipe up the notification alert menu.
Android™ Quick Acess Panel

Access Panel allows for quick access frequently used settings, Brightness, and a shortcut to Android System Settings.

Note: The images below may appear different from the actual computer.

Quick Access Panel
- Wi-Fi
- Bluetooth
- Do not Disturb
- Flashlight
- Auto-rotation
- Battery Saver
- Sim card / Mobile Data
- Airplane mode
- Screen cast
- idle mode

- Tap an Icon once to enable or disable.
- Press and hold an Icon to access the settings.

To open the Full Quick Access Panel
- From the Lock Screen, swipe down from top of the touch screen once.
- From the Home Screen, swipe down with two fingers from top of the touch screen.
- If the Notification Panel is open swipe down from the Quick Settings bar.
- For additional shortcut Icon’s swipe screen from right to left.
- Tap Navigation Bar to exit.
Android application Drawer & Google application

The application drawer is a menu containing all the applications installed on the device including Android System Settings. This is different from the Home Screen, as it contains every installed app and cannot be customized.

Note: The images below may appear different from the actual computer.

To open the Application Drawer (Manager)

- Swipe up the Navigation Bar from the Home Screen.
- To open an application, tap once.
- To exit from the Application Drawer, tap the Navigation Bar or swipe down.
Customize and add a shortcut to the Home Screen.

**Note:** The images below may appear different from the actual computer.

- From the **Application drawer**, press and hold an app or (Icon) then drag the Icon to move the app to the **Home Screen**.
- Drag the Icon into new location and release.

To cancel, drag the icon to “**X Cancel**”.

- To remove a shortcut Icon from home screen, press and hold the Icon then drag the Icon to “**X Remove**”.
- To uninstall an app, press and hold then drag the icon to “**Uninstall**”.
The Android System Settings menu allows you to control most aspects of your device - everything from establishing a new Wi-Fi or Bluetooth connection, to installing a third-party onscreen keyboard, to adjusting system sounds and screen brightness.
The Network & Internet application allows you to access Wi-Fi, Airplane Mode, Mobile plan, Hotspot, Tethering and Advanced settings of Data Saver, VPN and DNS.

To set up Network and Internet, enter Android Settings → Network & Internet →

**Wi-Fi**

- Tap **Wi-Fi**.
- Tap **Use Wi-Fi** to enable.
- From the list, select a wireless network.
- When prompted enter the network password.
- Tap **Connect**.

For additional Network detail information’s (IP address, Security, Frequency and Advanced), tap setting of the network (e.g. xfinitywifi).

Joining Wi-Fi using QR code

- From the list of saved Wi-Fi scroll down and tap **Add network**.
- Tap **(QR code)** icon to the right of Add network.
- Position the viewfinder over the QR code on another device.

Sharing Wi-Fi using QR code

- Tap **setting of the connected device**.
- Tap **(Share) icon**.
Disconnecting a connected Wireless Network

- Tap \( \text{setting} \) of the connected device.
- Tap \( \text{FORGET} \) icon to disconnect.

Mobile Network

- Tap \( \text{Mobile network} \).
- Internet service provider and data usage is shown on the top.

![Total Data Usage]

- Tap \( \text{Mobile data} \) to enable mobile data \( \text{on} \).
- Tap \( \text{Roaming} \) to enable roaming \( \text{on} \).
- Tap \( \text{Preferred Network Type} \) to choose preferred network available, e.g. LTE(Recommended)/3G.

App Data Usage

- Tap \( \text{DEC 11, 2020 – JAN 10, 2021} \) to set the period for mobile data usage calculation.
- Tap \( \) to set data warning & limit.

Automatically Select Network / APN

- Tap \( \text{Advanced} \).
- Tap toggle switch \( \) to enable Automatic network select.
- Tap \( \text{Access Point Names} \) to select APN from the available APNs list.

![Tap to select the APN to be used]
**Airplane mode**
This will disable all of the wireless transmission functions. Including cellular, Wi-Fi, and Bluetooth.

- To enable , tap **Airplane mode**.

**Hotspot & tethering**

**Wi-Fi hotspot**
This feature is for sharing Internet network connection with another device using Wi-Fi.

*Note:* The mobile computer must be connected to Wi-Fi. See Network & Internet connection on this user manual.

- Tap **Hotspot and tethering**.
- Tap **Wi-Fi hotspot**.
- Tap toggle switch to **ON**.
- Tap **QR code**.
- The QR code is for another device to scan the password for easy connect.
- To enter manually the password, tap **Hotspot password**.

**USB tethering**
This feature is for sharing Internet connection to another device using a USB cable.

*Note:* The USB cable must be connected first from mobile computer to another device or PC. See Connected device → USB on this user manual.

- Tap **Hotspot and tethering**.
- Tap **USB tethering**, to enable .

**Bluetooth tethering**
This feature is for sharing internet network connection to another device using Bluetooth.

*Note:* The Bluetooth must be paired first from mobile computer to another device or PC. See Connected devices → Bluetooth on this user manual.

- Tap **Hotspot and tethering**.
- To enable , tap **Bluetooth tethering**.
**Ethernet**

*Note:* To connect the mobile computer to Ethernet, it will need an Elo I/O hub (E863687). When available, the mobile computer will automatically prioritize the ethernet connection. If the mobile computer does not, please follow the steps below.

- Place the mobile computer into the Elo hub.
- Set Wi-Fi to disable.
  - Go to Wi-Fi settings, tap **Use Wi-Fi to disable**.
- Tap **Ethernet**.
- Tap toggle switch to enable.
Connected devices

The Connected devices application allows you to pair Bluetooth devices, NFC, and USB (Tethering File transfer MDI and PTP)

To setup, enter Android → Settings → Connected devices →

Bluetooth

Note: Make sure the BT device is on discoverable.

- Tap Connection preferences.
- Tap Bluetooth.
- Tap toggle switch to ON.
- Tap + Pair new device.
- From Available devices screen, tap a device to pair.
- When a pairing request message appears.
  - Verify the pairing number is the same.
  - If the pairing requests a PIN, enter the PIN.
- TapPAIR, to connect.
- When the Bluetooth device is successfully connected to mobile computer, the connection will show as Active or Connected.

Unpair a paired Bluetooth Device

- Navigate back to ‘Connected devices’ screen, from AVAILABLE MEDIA DEVICES or PREVIOUSLY CONNECTED DEVICES.
- Tap settings of the connected device (e.g. JBL Flip 3).

- In the settings menu, it is possible to DISCONNECT, FORGET (to unpair the device) and to enable and disable Phone calls, Media audio and Contact sharing.
**NFC**
Is a short-range high frequency wireless communication that enables the exchange of data between devices.
- Tap Connection preferences.
- Tap NFC to enable or disable.

**Cast**
This allows to mirror Elo mobile computer screen on a wireless display device (e.g. Smart TV).
**Note:** Make sure the wireless display capable device and mobile computer are on the same wireless network. See Network & Internet connection on this user manual.
- Tap Connection preferences.
- Tap Cast.
- Tap 3-dots menu.
- Tap **Enable wireless display** to begin scanning for compatible displays.
  - From the list, tap a wireless display (e.g. TV). From the Wireless Display device (TV), if promoted tap **Allow**.

**Disconnect and forget a connected wireless display**
- To stop the device from casting, tap the connected wireless display (e.g. TV).
- Tap **DISCONNECT**.
To forget a device

- Tap  setting of connected wireless display.
- From wireless display options screen, tap **FORGET**.

To stop scanning available wireless display to cast

- Tap  3-dots menu.
- Tap **Enable wireless display** to be unchecked

**Print**

*Note:* Make sure mobile computer and printer are connected to the same network.

- Tap **Connection preferences**.
- Tap **Printing**.
- Tap **Default Print Service**.
- Tap toggle switch to ON  
• Tap 3-dots menu.
• Tap Add printer.

To add a printer using Wi-Fi printer:
• Tap Wi-Fi direct printing to enable.
• If prompted, tap ‘ALLOW ONLY WHILE USING THE APP’ to allow the device.
• Tap Wi-Fi Direct printers to start searching for a Wi-Fi printer to add.
• Tap the printer’s name to connect.

To add a printer entering IP address:
• Tap Add printer by IP address.
• Enter the printer’s IP address.

USB

For data transfer and network sharing using a USB connection.

Note: To activate the USB settings, connect the USB cable from mobile computer to another device or PC. Once the mobile computer detects the device, it will become available in the USB preference settings.
• Tap USB.
• From USB Preferences under USE USB FOR choose and tap a feature to enable.

- File transfer – This will share mobile computer internal and SD shared storage.
- USB tethering – This will share internet network connection.
- PTP - Picture Transfer Protocol.
- No data transfer – (Default Setting) No data will be transferred even if the USB cable is connected.
Apps & Notification

App & Notification settings are to streamline app alerts by changing which apps send notifications and how the notifications alert you.

To manage App & Notification, enter Android Settings → App & Notification

Setting notifications

• In the Recently opened apps, tap SEE ALL APPS or App info.
• From App Info screen tap an App to set the notification (e.g. Android Keyboard).
  ❚ In the App property settings, you can also DISABLE, ENABLE, and FORCE STOP the app.

• To enable or disable notifications, tap Notifications. Then select Show notifications.

• To add a dot for unread notifications, tap Advanced then tap Allow notification dot.

Resetting app preferences

This will not lose any app data.

• Tap 3-dots menu from App Info screen.
• Tap Reset app preferences then tap RESET APP.
Setting Permission manager to an application

- To manage a preference’s permissions to an app (e.g. Android Keyboard), tap Permissions.
- To allow a permission to an application, tap an app from DENIED menu.
- To deny a permission to an application, tap an app from ALLOWED menu.

Setting notifications in the lock screen

- To set up notification in the lock screen from Apps and notification screen, tap Notifications.
- Tap Notification on lock screen. Then follow on-screen instruction on how notifications appear in the lock screen.

For additional settings

- Tap Advanced.
- Tap a feature to enable or disable.
Setting Permission manager on apps using storage, phone, and location

- To give permission to an app, tap Permission manager from Apps and notifications screen.
- In the menu of permission manager, tap an app to manage that app’s permissions (e.g. Camera).
- From the camera properties, choose an app to manage.
- To allow a permission to an application, tap an app from DENIED menu.
- To deny a permission to an application, tap an app from ALLOWED menu.

Setting Emergency alerts

- Tap Advanced from the Apps and notifications screen.
- Tap Emergency alerts.
- From the menu of alerts, tap a features to enable or disable.
- For Sound and Vibration settings, tap Vibration to enable or disable under Alert Preferences.
- For Alert reminder settings, tap Alert reminder sound.
Battery

The battery application monitors the battery’s status, performance, and charging state.

To modify Battery settings, enter Android Settings → Battery →

Battery Saver
The battery saver turns off, or restricts, background activity, some visual effects, and other high-power features to extend battery life.

Note: The Battery Saver will suspend these features when the device is charging.

• Tap Battery Saver.
• To manually enable or disable Battery Saver, tap TURN ON NOW or TURN OFF NOW.
• In the ON mode, the screen theme display will turn dark and the battery status icon will display this icon.
• To automatically enable Battery Saver in a certain power percentage threshold, tap Set a schedule.
• Tap Based on percentage to set a power percentage when the Battery Saver feature will enable.
• From the slider bar move the slider right or left to choose the power percentage from 5% to 75%. The default is 5%.
• To do nothing, tap No Schedule.
• Enabling “Turn off when full charged”, the Battery Saver turns off when battery is at 90%.

Battery Manager
When the Battery Manager detects that apps are draining the battery, you will have the option to restrict the application. Restricted apps may not work properly, and notifications may be delayed.

• Tap Battery Manager.
• Tap Use Battery Manager to enable.

Battery percentage
This feature will show battery percentage in the status bar.

• To enable and disable, tap Battery percentage.

Battery Usage
This feature will show all list of all apps how much battery power they are using.

• Tap 3-dots menu to enter in the battery usage.
• Tap **Battery usage**.
• To show full device usage, tap 3-dots menu again.

**Additional Information**

• When battery power drops to 15%, a pop-up warning will appear on the display.
Display

The Display application manages the screen’s display settings.

To modify Display settings, enter Android Settings → Display →

Auto Idle mode

• Tap Auto idle mode to enable ✅ or disable 🚫.

Brightness Level

• Tap Brightness level.
• Move the slider bar right or left to adjust the screen’s brightness.

Night Light Feature

This feature will tint the screen to amber. This makes easier to look at the screen or read in dim light.

• Tap Night Light.
• Tap TURN ON NOW.
• To adjust intensity, move the slider bar right or left.

• To disable, tap TURN OFF NOW.

Customizing a time schedule

• Tap Schedule.
• Select Turn on at custom time.
  ● Tap Start time to set the time (for example at 10:00PM).
    ● Tap OK to execute.
  ● Tap Enter time to set the time (for example at 6:00AM),
    ● Tap OK to execute.
To disable the time schedule
  • Tap Schedule.
  • Tap None.

Adaptive Brightness
This feature will automatically adjust the screen brightness to your environment.
  • Tap Adaptive Brightness.
  • Tap Adaptive Brightness to enable or disable.

Wallpaper
  • Tap Wallpaper.
  • Select a wallpaper from the following options.
     Live Wallpapers
     Snapdragon Gallery → Download – Picture – Screenshot
  • Select an image or picture you want as a wallpaper from the folders.
  • Tap SET WALLPAPER.

Advanced
Dark theme
  • To switch screen theme on dark (black color) or light (white color), tap Dark /.

Screen timeout
  • Tap Screen timeout.
  • Select the time limit from the following option.

  Screen timeout
  ○ Never
  ○ 15 seconds
  ○ 30 seconds

  ○ 1 minute
  ○ 2 minutes
  ○ 5 minutes
  ○ 10 minutes
  ○ 20 minutes

  • Tap to save.
Auto-rotation screen
• Tap Auto-rotation screen to enable or disable.

Font size
• Tap Font size.
• Move the slider bar left or right to adjust the text size.

Display size
• Tap Display size.
• Move the slider bar to left or right to adjust the screen size.

Screen saver
• Tap Screen saver.
• Tap Current screen saver to make changes to the current settings.
• Select a screen saver from Clock, Colors, Photo Frame, and Photo Table.
• For additional clock, Photo Frame, and Photo Table screen savers, tap setting.
• To activate Screen saver, tap START NOW.

Screen Orientation
• Tap Screen Orientation.
• Select the orientation from the following option.
• Tap to save.

**Lock screen display**
• Tap Lock screen display.
• Tap Lock screen.
• Tap on Show all notification content.

• To enable and disable users from lock screen.
  ❖ Tap Add user from lock screen
• To add lock screen message, tap Lock screen message.
  ❖ Enter a message and tap SAVE.
Sound

The sound application is to manage audio, vibration and Do not Disturb features.

To modify settings, enter Android Settings → Sound →

Volumes

- To decrease or increase the following sound volume, drag slider left or right.

Do not Disturb

- Tap Do not Disturb.
- Tap TURN ON NOW, to enable Do not Disturb,
  - To manage settings, tap a feature you wish to manage and follow on-screen instructions to complete the set up.
- To disable, tap TURN OFF NOW
**Prevent Ringing**

- Tap **Shortcut to prevent ringing**.
- Tap toggle switch to 📣 enable.
- Select from the following options.
  
  - Vibrate
  - Mute

- To disable 🚫, tap toggle switch.

**Default Notification Sound**

- Tap **Default notification sound**.
- Select a sound from the list (e.g. Pixie Dust) and tap OK to save.
**Default Alarm Sound**

- Tap **Default Alarm sound**.
- Select an alarm sound from the list (e.g. Cesium) and tap **OK** to save.

![Default alarm sound]

**Screen locking Sound**

- To enable or disable, tap **Screen locking Sounds**.

**Advanced**

- To enable or disable on the following features below, tap a feature.

![Advanced features]

OTHER SOUNDS AND VIBRATIONS

- Screen locking sounds
- Charging sounds and vibration
- Touch sounds
- Touch vibration (haptic feedback for tap, keyboard, and more)
To manage Storage, enter Android Settings → Storage →

**Internal Shared Storage**
- To check the status of internal memory storage, tap Internal Shared storage.

**Storage Manager**
This feature is to help free up storage space, storage manager removes backed up photos and video from the device.
- To enable or disable , tap Storage manager.
- To make changes to set days on removing photos and videos, tap Remove photos & Videos.
- Select from the options below.
  - Over 30 days old
  - Over 60 days old
  - Over 90 days old
- Tap Recent App to exit.

**SD card**
- To manage SD card, tap SD card.
- To safely eject SD card, tap eject.
- To remount the SD card, tap SD card.
- Tap MOUNT.
Key Remap

The Key Remap applications allows you to program the left and right function buttons from controlling the device volume, barcode reader trigger and other hardware buttons.

To modify the settings, enter Android Settings → Key Remap →

From the settings, tap an Icons you wish to manage.

To program “Left Function Button” for barcode left trigger choose “Scanner trigger L1”.

To program “Right Function Button” for barcode Right trigger choose “Scanner trigger R1”.

Wakeup Source

The Wakeup Source applications allows you to program the “Left, Right Trigger buttons and Touch Screen” to wake up the device from sleep or idle mode.

To modify the settings, enter Android Settings → Wakeup Source →

Tap to Enable (Checked) or Disable (Unchecked).
Privacy

The Privacy application is to give you control over what permissions of applications can have.

To manage permission, enter Android Settings → Privacy →

Permission Manager
This is to grant permission of an App that uses storage, phone, and location.

- To manage permissions to an app, tap Permission manager.
- From the menu of permission manager, tap an app you wish to manage (e.g. Camera).
- From the camera property shows what applications has camera permissions.
- To allow a permission to an application, tap an app from DENIED menu.
- To deny a permission to an application, tap an app from ALLOWED menu.

Show passwords
This will display character briefly as you type a password.

- To enable and disable , tap Show passwords.

Lock screen
This will show all notification content in the lock screen.

- To enable and disable , tap Lock screen.
To modify Locations settings, enter Android Settings → Location

- Tap Location.
- To enable or disable, tap Use location

- For apps have requested location recently, tap See all.
- To update permission, tap App permission.
- To scan for Wi-Fi networks and Bluetooth, tap Wi-Fi and Bluetooth scanning.

Note: This feature allows app and services to scan for Wi-Fi networks and Bluetooth anytime. This can be used to improve location-based features and services.
Security

To change Security settings, enter Android → Settings → Security →

**Screen Lock**
- Tap Screen lock.
- From the menu select a security you wish to set. The default security is Swipe.

**Swipe Security**
- Tap Swipe.

**Pattern Security**
- Tap Pattern.
- Tap YES.
- Draw a Pattern for security (see image for an example) and tap NEXT.

![Pattern Security Image]

- Draw the same pattern again and tap CONFIRM.
- Follow on-screen instruction and tap DONE.

**Pin Security**
- Tap PIN
- Tap YES.
- Enter a PIN number must be at least 4 digits minimum and tap NEXT.
• Re-enter PIN numbers and tap CONFIRM.
• Follow on-screen instruction and tap DONE.

**Password Security**
• Tap Password.
• Tap YES.
• Enter a password, must be at least 4 characters minimum and tap NEXT.
• Re-enter password and tap CONFIRM.
• Follow on-screen instruction and tap DONE.

**Remove Screen Lock**
• To remove screen lock, tap Screen lock.
• If prompted enter the Password (only applicable for PIN, PATTERN and PASSWORD security).
• Tap None to remove screen lock.
• Tap YES.
• Tap REMOVE to confirm.
Accounts

To add an account, enter Android Settings → Accounts

- To set up an account, tap Account.
- Tap + Add account.
- Enter an email account.
- Enter an Account type you want to add (PERSONAL - POP3 or PERSONAL – IAMP).
- Follow the on-screen instructions to complete the setup.
Accessibility

The Accessibility is a large on-screen menu to control Elo Mobile Computer Android device. You can control display, audio & on-screen text and more.

To modify settings, enter Android → Settings → Accessibility

- From the menu, select a feature to change the setting.
- To enable or disable, tap the feature.
- To adjust slide bar, drag slider right or left.
- For other settings, tap the feature and follow the on-screen instruction to complete the setup.
To modify settings, enter Android → Settings → System →

**Languages & input**

- To change language, tap Languages & input.
- Tap Language.
- Tap + Add a language, then choose from the list of languages to add (e.g. Espanol).

![Languages](image)

- After choosing a language, tap 3-dots menu then tap Remove.
- To change a language e.g. from English to Espanol, tap English then tap.

![Languages](image)

- Tap OK to remove selected language.

![Languages](image)

**Gestures**
• Tap Gestures.

For camera gesture
• Tap Jump to camera.
• Tap Jump to camera to enable  or disable .
  - When set to enable, pressing power button twice will activate the digital camera.

For notification volume gesture
• Tap Preventing ringing
• Tap toggle switch to ON or OFF.
  - When set to Vibrate mode and notification volume is active, pressing power + volume up buttons together, the notification volume will be set to vibrate mode.
  - The vibrate mode icon will also show into status bar.

• When set to Mute mode and notification volume is active, pressing power + volume up buttons together, the notification volume will be muted.
  - The mute icon will also show into status bar.
**Date & Time**

Note: The recommended setting for “Date and Time” is to use, “USE network provided time”. And for **Time zone** when is set to “USE network provided zone”, you need a sim card to work.

For manual settings:

- To set time and date, tap Date & Time.
- Tap Use network-provided time to disable.
- Tap Date then enter date.
- Tap Time then enter time.

- To set time zone, tap network-provided time and select your time zone.

- To set to 12 hours format, tap Use locale default.

- To set 24 formats, tap Use 24-hours format.
Advanced

Reset options

- To select a following option to reset, tap Reset options.
- From the list, select an item to reset then tap to execute and follow on-screen instruction.

<table>
<thead>
<tr>
<th>Reset options</th>
</tr>
</thead>
<tbody>
<tr>
<td>Reset Wi-Fi, mobile &amp; Bluetooth</td>
</tr>
<tr>
<td>Reset app preferences</td>
</tr>
<tr>
<td>Erase all data (factory reset)</td>
</tr>
</tbody>
</table>

Multiple users

- Tap Multiple users.
- Tap toggle switch to ON.

To switch users

- Tap a user or name from the following option.

To add user

Note: only admin can add users.

- Tap + Add user or profile.
- To set up apps and contents for the user, tap User.
  Follow on-screen instructions to complete account set up.
- To set up restriction access to apps and content for the users, tap Restricted profile.
  Follow on-screen instructions to complete account set up.
To delete guest from the device
- Tap 3-dot menu from Multiple Users screen.
- Tap Delete Guest from this device.

To rename Admin Profile info
- Tap admin
- Enter the name.
- Tap OK to save.

Developer (Accessing developer option menu)
- To access Developer option menu, go to About phone → Build number.
- Tap Build number 7 times. When successfully done you will see the message “You are now a developer”.
- Then go back to → System → Advanced.
### About Handheld

For viewing specific information of mobile computer.

#### To view and modify settings, enter Android Settings → About phone

<table>
<thead>
<tr>
<th>Device name</th>
<th>Tap once to change the device name.</th>
</tr>
</thead>
<tbody>
<tr>
<td>M50C</td>
<td></td>
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</table>

<table>
<thead>
<tr>
<th>Emergency information</th>
<th>Tap once to view add, and update emergency information.</th>
</tr>
</thead>
<tbody>
<tr>
<td>Info &amp; contacts for Owner</td>
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<table>
<thead>
<tr>
<th>Legal information</th>
<th>Tap once to view.</th>
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<th>Regulatory labels</th>
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<table>
<thead>
<tr>
<th>SIM status</th>
<th>Tap once to view SIM status.</th>
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<tbody>
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<td>Not available</td>
<td></td>
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<table>
<thead>
<tr>
<th>Attestation keys and certificates</th>
<th>Tap once to view.</th>
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<tbody>
<tr>
<td>Unknown</td>
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<table>
<thead>
<tr>
<th>Model &amp; hardware</th>
<th>Tap once to view Model, Hardware and Serial number information.</th>
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</thead>
<tbody>
<tr>
<td>Model: M50C</td>
<td></td>
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<table>
<thead>
<tr>
<th>IMEI</th>
<th>Tap once to view IMEI information – IMEI and IMEI SV.</th>
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<tbody>
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<td></td>
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<table>
<thead>
<tr>
<th>Model description</th>
<th>Elo Mobile Computer Model description.</th>
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<tbody>
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<td>M50C</td>
<td></td>
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</table>

<table>
<thead>
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<th>Android version</th>
<th>Tap once to view Android version, Security, Google Play system update, Baseband version, Kernel version and Build number.</th>
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<tr>
<td>10</td>
<td></td>
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<table>
<thead>
<tr>
<th>IP address</th>
<th>Network address information.</th>
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<td>Unavailable</td>
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<table>
<thead>
<tr>
<th>Wi-Fi MAC address</th>
<th>Bluetooth address</th>
<th>Up time</th>
<th>Build number</th>
</tr>
</thead>
<tbody>
<tr>
<td>01:61:3e:6f:05:69</td>
<td>01:61:3e:6f:05:69</td>
<td>02:20</td>
<td>5.0.1204p</td>
</tr>
</tbody>
</table>

- Tap once to view add, and update emergency information.
- Tap once to view SIM status.
- Tap once to view Model, Hardware and Serial number information.
- Tap once to view IMEI information – IMEI and IMEI SV.
- Elo Mobile Computer Model description.
- Tap once to view Android version, Security, Google Play system update, Baseband version, Kernel version and Build number.
- Network address information.
- Bluetooth address information.
- Total time when mobile computer, is in operation.
- Tap 7 times to access Developer options menu in the System → Advanced settings.
Section 4

Operational
About Camera App (Snapdragon)

Camera Features

- **Switch** - A switch between Camera to Video and Panorama.
- **Scene mode** - For selecting the best exposure settings to fit the type of scene being shot. That is, in addition to the amount of light in the scene. Options include: HDR, Portrait, Landscape, Sports, Flowers, Backlight, Candlelight, Sunset, Night, Beach and Snow.
- **Color Filter** - For photo effect. Options include Mono – Sepia – Negative – Solarize – Posturize – Aqua – Emboss - Sketch -Neon.
- **HDR** - High Dynamic Range. The camera will process photos slightly differently than normal to capture greater detail from bright and dark areas in your photo.
- **Shutter Release** - For taking picture.
- **Gallery** – For viewing captured picture.
### Advanced Settings

- **Flash**
  - *Auto*
  - *On*

- **GPS location**
  - *On*

- **Picture size**
  - *8M pixels*

- **Picture quality**
  - *High*

- **Countdown timer**
  - *Off*

- **Storage**
  - *Phone*

- **Continuous Shot**
  - *Off*

- **Face Detection**
  - *Off*

- **ISO**
  - *Auto*

- **Exposure**
  - *0*

- **White balance**
  - *Auto*

- **Redeye Reduction**
  - *Disable*

- **Shutter Sound**
  - *Enable*

#### Functions:

- **To help illuminate a scene or an object when taking picture.**
- **For showing location information in an image to show the photographer where the camera was when the photo was taken.**
- **For changing picture resolution.**
- **For enhancing photos and images.**
- **Is a timer that gives a delay between pressing the shutter release. It is most used to let photographers to take a photo themselves (often with family), hands free.**
- **For managing photos and videos where to save.**
- **For taking multiple photographs to be taken within a short timeframe and in rapid succession.**
- **For detecting faces in the images and recognize them to automatically adjust focus and exposure.**
- **For brightening or darkening an image (photo). The lower the number of ISO the darker the photo and the finer the grain. The higher the brighter of the photo and is often use in darker situations**
- **Exposure is the amount of light which reaches your camera sensor. It is a crucial part of how bright or dark your pictures appear.**
- **For eliminating the discoloration in an image due to certain colors in the scene having more intensity and/or a higher or lower “temperature”.**
- **For reducing re redeye when taking a picture using flash.**
- **Play a tone when taking a picture.**
Video Features

**Switch** - A switch between Video, Camera and Panorama.

**Color Filters** - For video effect. Options include: Mono – Sepia – Negative – Solarize – Posturize – Aqua – Emboss - Sketch -Neon.

**Video Capture** - For capturing video.

**Microphone** - For capturing sound on video.

**Gallery** – For viewing captured videos.
### Advanced Settings

<table>
<thead>
<tr>
<th>Feature</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>Flash</td>
<td>To help illuminate a scene or an object when taking video.</td>
</tr>
<tr>
<td>Video quality</td>
<td>For changing video resolution.</td>
</tr>
<tr>
<td>Video duration</td>
<td>Is an auto timer to stop video recording without pressing video capture icon.</td>
</tr>
<tr>
<td>GPS location</td>
<td>For showing location information in a video to show the videographer where the video camera was when the video was taken.</td>
</tr>
<tr>
<td>Storage</td>
<td>For managing photos and videos where to save.</td>
</tr>
<tr>
<td>White balance</td>
<td>For eliminating the discoloration in a video due to certain colors in the scene having more intensity and/or a higher or lower “temperature”.</td>
</tr>
<tr>
<td>Video High FrameRate</td>
<td>For adjusting frequency (Frame Per Seconds).</td>
</tr>
<tr>
<td>Image Stabilization</td>
<td>Note: 120fps, and higher frame rates are used for recording video to be played back in slow motion.</td>
</tr>
<tr>
<td></td>
<td>To help stabilize a video recording on a shaky video camera.</td>
</tr>
</tbody>
</table>
Take a Picture and Record Video

- Tap 📷 Snapdragon camera app to access the Digital camera.
- To change camera and video settings, see features.
- From the switch, located on bottom left side of the mobile computer select one from the following options.

For Panorama, tap 📷 Panorama Icon.
- To take panoramic pictures, tap 📷 panorama shutter Icon.
- Slowly move the device across to take a panoramic picture.
- When finished, tap 📷 stop Icon.

For Video recording, tap 📺 Video Icon.
- To record videos, tap 📺 capture Icon.
- To mute and unmute sound while recording, tap microphone Icon.
- When finished recording, tap 📺 stop Icon

For camera, tap 📷 Camera Icon.
- To take pictures, tap 📷 shutter release Icon.
- To enable and disable shutter sound, go to advanced settings. See camera features.
- To zoom an object or scene place two fingers on the screen together, spreads them apart to zoom in and pinch to zoom out.
- To auto focus an object or scene, tap touch screen.
- To view pictures and play recorded videos, tap gallery.
- To play recorded video, tap 📺 play.
**Take a Screenshot**

For capturing an image of the screen. The device will automatically save the image in the 📝 File folder application.

- To take a screenshot, press and hold Power and Volume buttons together.
- Or press the power button for more than 2 second and a pop-up screen menu will appear then tap 📸 screenshot.

**About 📶 Android File Application**

The Android File Manager app helps to manage, delete, print, shares and transfer files between the mobile storage and a computer.

To access pictures, videos, screenshots, audios, downloads, and mobile internal / external storage, go to application drawer.

- Tap 📷 file application from the application drawer.
- Tap 📊 3 lines menu and choose one of the following options.
- Tap 📈 Image Icon for pictures and screenshots.
  - Tap Camera folder for photos.
  - Tap Screenshots folder for screenshot images.
  - Tap 🎥 Video for recorded videos.
  - Tap Camera folder.
  - Tap 🎤 Audio for recorded audios.
  - Tap 📦 for Downloaded items.
  - Tap 📁 for mobile internal storage folders.
  - Tap 📁 for mobile external storage folders.

**Delete Files**

- To delete files from the folders above, press and hold an item or tap ⤶ 3 dots menu to select all items in the folder.
- Tap 🗑️ to delete.
- Tap OK to confirm.

**Copy and Move Files**
• To copy or move files into new location press and hold an item from the folders above or tap 3 dots menu to select all items in the folder.
• Tap 3 dots menu again and choose “Copy to” or “Move to”.
• Tap 3 lines menu and choose from the following options where you want to move or copy the item.
• To create a new folder, tap 3 dots menu.
• Rename the folder.
• Tap Copy or Move to confirm.
• Print File
• Note: To print you must set a printer. See Android Settings → Connected device → Print.
• To print files from the folders above, tap an item once.
• Tap 3 dots menu and tap Print.

Share Files
Note: Make sure both devices Bluetooth are paired. See Connected devices → Bluetooth on this user manual.
• To share files from the folders above, press and hold an item.
• tap share Icon.
• To share via Bluetooth, tap Bluetooth Icon.
• To share via Email, tap email Icon
• For more options hold an item from the folders above.
• Tap 3 dots menu and choose from the following options and follow on-screen instructions.
About Imager Engine / Barcode Reader

Elo mobile computer uses a sub-miniature imager engine. The sub-miniature area imager engine optimized for bar code reading. The engine captures digital images of a bar code for transmission to a decoder to decode a 1D or 2D bar code of any format supported by the decoding software. The imager engine includes an LED aiming system, and an LED illumination system.

- **Aiming System**
  A 610 nm LED is used to generate a circular aiming pattern which indicates the center of the imager's field of view.

- **Aiming Error**
  The aiming pattern is rotated by 2º relative to the imaging axis in the horizontal plane to minimize parallax between the aiming axis and the imaging axis at 195 mm (7.7 in.) from the engine. See Aiming Element below.

- **Aiming Control**
  Can capture images with both the aiming subsystem turned on during exposure (the image of the aiming pattern is visible in the digital image) or off. If the aiming system is turned off during exposure, brightness of the aiming pattern decreases as exposure increases. The aiming subsystem can also be turned off completely. Elo recommends shutting aiming off three frames prior to capturing documents to prevent the aiming

- **Illumination System**
  The illumination system consists of one red LED and a sophisticated drive system that allows image capture and decoding throughout a full range of lighting conditions (total darkness to full sunlight).

- **Illumination Control**
  The imager engine can capture images with the illumination subsystem turned on or off. LED illumination can be turned off when taking images of documents printed on semi-glossy or glossy paper or on a substrate with security marks. In this case, ensure ambient illumination provides a minimum of 30fcd on the document surface.
Imager Aiming Element specifications

Skew, Roll, and Pitch
Measured on a 20 mil Code 39 symbol at distance of 5 inches. Tolerance for skew and pitch is reduced at extreme ends of the working range.
## Imager Technical Specification

<table>
<thead>
<tr>
<th>Item</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>Optical Resolutions</td>
<td>5.0 mil (Code 39), 5.0 mil (PDF417)</td>
</tr>
<tr>
<td>Specular Dead Zone</td>
<td></td>
</tr>
<tr>
<td>• Illumination On</td>
<td>Up to 20º depending on target distance and substrate glossiness</td>
</tr>
<tr>
<td>• Illumination Off</td>
<td>None</td>
</tr>
<tr>
<td>Ambient Light Immunity (Sunlight)</td>
<td>10000 ft. candles (107,639 lux)</td>
</tr>
<tr>
<td>Imaging Sensor</td>
<td></td>
</tr>
<tr>
<td>• Image Resolution</td>
<td>1280 horizontal X 800 vertical pixels</td>
</tr>
<tr>
<td>• Field of View (FOV)</td>
<td>42.0º horizontal, 28.0º vertical</td>
</tr>
<tr>
<td>Focusing Distance from Front of Engine</td>
<td>194mm / 7.64 inches</td>
</tr>
<tr>
<td>LED Aiming Element</td>
<td></td>
</tr>
<tr>
<td>• LED</td>
<td>610nm</td>
</tr>
<tr>
<td>• Aiming Dot Brightness Level</td>
<td>130fcd nominal</td>
</tr>
<tr>
<td>Illumination System</td>
<td></td>
</tr>
<tr>
<td>• LED</td>
<td>Hyper Red 660nm</td>
</tr>
<tr>
<td>• Pattern Angle</td>
<td>50.3º horizontal, 32.0º vertical at 50% intensity</td>
</tr>
<tr>
<td>Minimum Bar Code Print Contrast</td>
<td>20%</td>
</tr>
</tbody>
</table>
## Imager Decode Ranges

### Trigger Level Mode Working Decode Ranges

<table>
<thead>
<tr>
<th>Barcode Type</th>
<th>Near Distance Typical</th>
<th>Far Distance Typical</th>
</tr>
</thead>
<tbody>
<tr>
<td>4 mil Code 39</td>
<td>3.3 in / 8.4 cm</td>
<td>8.8 in / 22.4 cm</td>
</tr>
<tr>
<td>5 mil Code 128</td>
<td>2.8 in / 7.1 cm</td>
<td>8.2 in / 20.8 cm</td>
</tr>
<tr>
<td>5 mil Code 39</td>
<td>2.0 in / 5.08 cm</td>
<td>13.5 in / 34.3 cm</td>
</tr>
<tr>
<td>5mil PDF417</td>
<td>3.1 in / 7.9 cm</td>
<td>8.4 in / 21.3 cm</td>
</tr>
<tr>
<td>10 mil Data Matrix</td>
<td>2.9 in / 7.4 cm</td>
<td>10.1 in / 25.7 cm</td>
</tr>
<tr>
<td>100% UPCA</td>
<td>1.8 in / 4.6 cm*</td>
<td>26.0 in / 66.0 cm</td>
</tr>
<tr>
<td>20.0mil Code 39</td>
<td>2.0 in / 5.08 cm*</td>
<td>30.0 in / 76.2 cm</td>
</tr>
<tr>
<td>20 mil QR Code</td>
<td>1.2 in / 3.0 cm</td>
<td>16.7 in / 42.4 cm</td>
</tr>
</tbody>
</table>

*Limited by width of bar code in field of view.

**Note:** Photographic quality bar code at 15° tilt pitch angle under 30fcd ambient illumination.

### Presentation Mode Working Decode Ranges (Swipe Speed: 30 in/sec)

<table>
<thead>
<tr>
<th>Barcode Type</th>
<th>Near Distance Typical</th>
<th>Far Distance Typical</th>
</tr>
</thead>
<tbody>
<tr>
<td>100% UPCA</td>
<td>2.0 in / 5.08 cm</td>
<td>8.0 in / 20.3 cm</td>
</tr>
<tr>
<td>100% UPCA</td>
<td>2.0 in / 5.08 cm</td>
<td>8.0 in / 20.3 cm</td>
</tr>
</tbody>
</table>
## User Preferences – Parameters

*Note: For additional settings and configurations, please refer on “Software Decode SDK For Android Developer Guide”.

<table>
<thead>
<tr>
<th>Parameter</th>
<th>Parameter Number</th>
<th>Default</th>
<th>Commands</th>
</tr>
</thead>
<tbody>
<tr>
<td>Trigger Mode</td>
<td>138</td>
<td>Level</td>
<td>0 = Level 7 = Presentation Mode 9 = Auto Aim</td>
</tr>
<tr>
<td>Picklist Mode</td>
<td>402</td>
<td>Disabled Always</td>
<td>0 = Disabled Always 2 = Enabled Always</td>
</tr>
<tr>
<td>Decode Session Timeout</td>
<td>136</td>
<td>9.9 Sec</td>
<td>0.5 to 9.9 seconds. To set 0.5 seconds, enter the value 5. To set 9.9 seconds, enter the value 99.</td>
</tr>
<tr>
<td>Timeout Between Decodes, Same Symbol</td>
<td>137</td>
<td>0.6 Sec</td>
<td>0.0 to 9.9 seconds. To set 0.6 seconds, enter the value 6. To set 9.9 seconds, enter the value 99.</td>
</tr>
<tr>
<td>Transmit Code ID Character</td>
<td>45</td>
<td>None</td>
<td>0 = None 1 = AIM Code ID Character 2 = Symbol Code ID Character</td>
</tr>
<tr>
<td>Transmit &quot;No Read&quot; Message</td>
<td>94</td>
<td>Disable</td>
<td>0 = Disable 1 = Enable</td>
</tr>
<tr>
<td>Fuzzy 1D Processing 514 Enable 4-5</td>
<td>514</td>
<td>Enable</td>
<td>0 = Disable 1 = Enable</td>
</tr>
<tr>
<td>Mobile Phone/Display Mode</td>
<td>716</td>
<td>Disable</td>
<td>0 = Disable 1 = Enable</td>
</tr>
<tr>
<td>Multi Decode Mode</td>
<td>900</td>
<td>Disable</td>
<td>0 = Disable 1 = Enable</td>
</tr>
<tr>
<td>Bar Codes to Read</td>
<td>902</td>
<td>1</td>
<td>0 - 10</td>
</tr>
<tr>
<td>Full Read Mode</td>
<td>901</td>
<td>1</td>
<td>0 - Generate a decode event after one or more bar codes are decoded. 1 - Only generate the callback to on Decode Complete () when at least the number of bar codes set in Bar Codes to Read are decoded.</td>
</tr>
</tbody>
</table>
Imager Preferences – Parameters

Note: For additional settings and configurations, please refer on “Software Decode SDK For Android Developer Guide”.

<table>
<thead>
<tr>
<th>Parameter</th>
<th>Parameter Number</th>
<th>Default</th>
<th>Commands</th>
</tr>
</thead>
<tbody>
<tr>
<td>Illumination Power Level</td>
<td>764</td>
<td>10</td>
<td>0 - 10</td>
</tr>
<tr>
<td>Decoding Illumination</td>
<td>298</td>
<td>Enable</td>
<td>0 = Disable 1 = Enable</td>
</tr>
<tr>
<td>Decode Aiming Pattern</td>
<td>306</td>
<td>Enable</td>
<td>0 = Disable 1 = Enable</td>
</tr>
<tr>
<td>Hands-free Decode Aiming Pattern</td>
<td>590</td>
<td>Enable</td>
<td>0 = Disable 1 = Enable</td>
</tr>
<tr>
<td>Image Capture Illumination</td>
<td>361</td>
<td>Enable</td>
<td>0 = Disable 1 = Enable</td>
</tr>
<tr>
<td>Frame Rate</td>
<td>674</td>
<td>0 (Auto)</td>
<td>0 = Auto 1 = 60 fps 2 = 30 fps 3 = 15 fps 4 = 10 fps 5 = 55 fps 6 = 50 fps 7 = 45 fps 8 = 40 fps</td>
</tr>
<tr>
<td>Exposure Time</td>
<td>567</td>
<td>0</td>
<td>0 to 960</td>
</tr>
<tr>
<td>Motion Illumination</td>
<td>762</td>
<td>Enable</td>
<td>0 = Disable 1 = Enable</td>
</tr>
<tr>
<td>Snapshot Mode Timeout</td>
<td>323</td>
<td>0 (30 seconds)</td>
<td>0 = 30 seconds 1 = 60 seconds 2 = 90 seconds</td>
</tr>
<tr>
<td>Snapshot Aiming Pattern</td>
<td>300</td>
<td>Disable</td>
<td>0 = Disable 1 = Enable</td>
</tr>
<tr>
<td>Image Cropping</td>
<td>301</td>
<td>Disable</td>
<td>0 = Disable 1 = Enable</td>
</tr>
<tr>
<td>Crop to Pixel Addresses</td>
<td>315; 316 317; 318</td>
<td>0 top, 0 left, 479 bottom, 751 right</td>
<td>Value Range (0,0) to (1279, 799) Column Numbering 0 to 1279 Row Numbering 0 to 799</td>
</tr>
<tr>
<td>Image Resolution</td>
<td>302</td>
<td>Full</td>
<td>0 Full - 1280 x 800 1 1/2 -640 x 400 3 1/4 -640 x 400</td>
</tr>
<tr>
<td>Image File Format Selection</td>
<td>304</td>
<td>JPEG</td>
<td>1 - JPEG File Format 3 - BMP File Format 4 - TIFF File Format</td>
</tr>
<tr>
<td>Feature</td>
<td>Value</td>
<td>Description</td>
<td></td>
</tr>
<tr>
<td>--------------------------------------------</td>
<td>-------</td>
<td>-----------------------------------------------------------------------------</td>
<td></td>
</tr>
<tr>
<td>JPEG Image Options</td>
<td>299</td>
<td>1 (Quality Value) 0 - Size Value</td>
<td></td>
</tr>
<tr>
<td>JPEG Quality Value</td>
<td>305</td>
<td>65 5 to 100 100 represents the highest quality image.</td>
<td></td>
</tr>
<tr>
<td>Image Enhancement</td>
<td>564</td>
<td>Off 0 = Off 1 = Low 2 = Medium 3 = High</td>
<td></td>
</tr>
<tr>
<td>Bits per Pixel (BPP)</td>
<td>303</td>
<td>8 BPP 2 = 8 BPP to assign 1 of 256 levels of grey to each pixel</td>
<td></td>
</tr>
<tr>
<td></td>
<td></td>
<td>0 = 1 BPP for a black and white image 1 = 4 BPP to assign 1 of 16 levels of grey to each pixel</td>
<td></td>
</tr>
<tr>
<td>Signature Capture</td>
<td>93</td>
<td>Disable 0 = Disable 1 = Enable</td>
<td></td>
</tr>
<tr>
<td>Signature Capture Image File Format Selection</td>
<td>313</td>
<td>JPEG 1 = JPEG 3 = BMP 4 = TIFF</td>
<td></td>
</tr>
<tr>
<td>Signature Capture Bits per Pixel (BPP)</td>
<td>314</td>
<td>8 BPP 2 = 8 BPP 0 = 1 BPP 1 = 4 BPP to</td>
<td></td>
</tr>
<tr>
<td>Signature Capture Width</td>
<td>366</td>
<td>400 001 to 1280 decimal</td>
<td></td>
</tr>
<tr>
<td>Signature Capture Height</td>
<td>367</td>
<td>100 001 to 800 decimal</td>
<td></td>
</tr>
<tr>
<td>Signature Capture JPEG Quality</td>
<td>421</td>
<td>65 005 to 100 100 represents the highest quality image.</td>
<td></td>
</tr>
<tr>
<td>Video View Finder</td>
<td>324</td>
<td>Disable 0 = Disable 1 = Enable</td>
<td></td>
</tr>
<tr>
<td>Video Scaling</td>
<td>761</td>
<td>2 0 = Full Resolution - 1280 x 800 1 = 1/2 Resolution 2 = 1/3 Resolution 3 = 1/4 Resolution</td>
<td></td>
</tr>
<tr>
<td>Retrieve Last Decoded Image</td>
<td>905</td>
<td>Disable 0 = Disable 1 = Enable</td>
<td></td>
</tr>
</tbody>
</table>
**Note:** For additional settings and configurations, please refer on “Software Decode SDK For Android Developer Guide”.

<table>
<thead>
<tr>
<th>1D Symbologies</th>
<th>Parameter Number</th>
<th>Commands * Default</th>
</tr>
</thead>
<tbody>
<tr>
<td>UPC-A</td>
<td>1</td>
<td>0x00 = Disable</td>
</tr>
<tr>
<td></td>
<td></td>
<td>0x01 = Enable*</td>
</tr>
<tr>
<td>UPC-E</td>
<td>2</td>
<td>0x00 = Disable</td>
</tr>
<tr>
<td></td>
<td></td>
<td>0x01 = Enable*</td>
</tr>
<tr>
<td>UPC-E1</td>
<td>12</td>
<td>0x00 = Disable*</td>
</tr>
<tr>
<td></td>
<td></td>
<td>0x01 = Enable</td>
</tr>
<tr>
<td>EAN-8/JAN-8</td>
<td>4</td>
<td>0x00 = Disable</td>
</tr>
<tr>
<td></td>
<td></td>
<td>0x01 = Enable*</td>
</tr>
<tr>
<td>EAN-13/JAN-13</td>
<td>3</td>
<td>0x00 = Disable</td>
</tr>
<tr>
<td></td>
<td></td>
<td>0x01 = Enable*</td>
</tr>
<tr>
<td>Bookland EAN</td>
<td>83</td>
<td>0x00 = Disable*</td>
</tr>
<tr>
<td></td>
<td></td>
<td>0x01 = Enable</td>
</tr>
<tr>
<td>UCC Coupon Extended Code</td>
<td>85</td>
<td>0x00 = Disable*</td>
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<td></td>
<td></td>
<td>0x01 = Enable</td>
</tr>
<tr>
<td>ISSN EAN</td>
<td>617</td>
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<tr>
<td></td>
<td></td>
<td>0x01 = Enable</td>
</tr>
<tr>
<td>Code 128</td>
<td>8</td>
<td>0x00 = Disable</td>
</tr>
<tr>
<td></td>
<td></td>
<td>0x01 = Enable*</td>
</tr>
<tr>
<td>GS1-128</td>
<td>14</td>
<td>0x00 = Disable</td>
</tr>
<tr>
<td></td>
<td></td>
<td>0x01 = Enable*</td>
</tr>
<tr>
<td>ISBT 128</td>
<td>84</td>
<td>0x00 = Disable</td>
</tr>
<tr>
<td></td>
<td></td>
<td>0x01 = Enable*</td>
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<tr>
<td>Code 39</td>
<td>0</td>
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<td></td>
<td></td>
<td>0x01 = Enable*</td>
</tr>
<tr>
<td>Triptic Code 39</td>
<td>13</td>
<td>0x00 = Disable*</td>
</tr>
<tr>
<td></td>
<td></td>
<td>0x01 = Enable</td>
</tr>
<tr>
<td>Code 32</td>
<td>231</td>
<td>0x00 = Disable*</td>
</tr>
<tr>
<td></td>
<td></td>
<td>0x01 = Enable</td>
</tr>
<tr>
<td>Code 93</td>
<td>9</td>
<td>0x00 = Disable*</td>
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<tr>
<td></td>
<td></td>
<td>0x01 = Enable</td>
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<tr>
<td>Code Type</td>
<td>Code</td>
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</tr>
<tr>
<td>Code 11</td>
<td>10</td>
<td>Disable*</td>
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<tr>
<td>Interleaved 2 of 5</td>
<td>6</td>
<td>Disable</td>
</tr>
<tr>
<td>Codabar</td>
<td>7</td>
<td>Disable*</td>
</tr>
<tr>
<td>MSI</td>
<td>11</td>
<td>Disable*</td>
</tr>
<tr>
<td>Chinese 2 of 5</td>
<td>408</td>
<td>Disable*</td>
</tr>
<tr>
<td>Korean 3 of 5</td>
<td>581</td>
<td>Disable*</td>
</tr>
<tr>
<td>Matrix 2 of 5</td>
<td>618</td>
<td>Disable*</td>
</tr>
<tr>
<td>Inverse 1D</td>
<td>586</td>
<td>0 - Regular Only*</td>
</tr>
<tr>
<td>GS1 DataBar</td>
<td>338</td>
<td>Disable</td>
</tr>
<tr>
<td>Composite CC-C</td>
<td>341</td>
<td>Disable*</td>
</tr>
<tr>
<td>Composite CC-A/B</td>
<td>342</td>
<td>Disable*</td>
</tr>
<tr>
<td>Composite TLC-39</td>
<td>371</td>
<td>Disable*</td>
</tr>
<tr>
<td>Postal Symbologies</td>
<td>Parameter</td>
<td>Commands * Default</td>
</tr>
<tr>
<td>--------------------------</td>
<td>-----------</td>
<td>-------------------------------------</td>
</tr>
<tr>
<td>US Postnet</td>
<td>89</td>
<td>0x00 = Disable 0x01 = Enable*</td>
</tr>
<tr>
<td>US Planet</td>
<td>90</td>
<td>0x00 = Disable 0x01 = Enable*</td>
</tr>
<tr>
<td>UK Postal</td>
<td>91</td>
<td>0x00 = Disable 0x01 = Enable*</td>
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<td>Japan Postal</td>
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<td>0x00 = Disable 0x01 = Enable*</td>
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<tr>
<td>Australian Postal</td>
<td>291</td>
<td>0x00 = Disable 0x01 = Enable*</td>
</tr>
<tr>
<td>Netherland KIX code</td>
<td>326</td>
<td>0x00 = Disable 0x01 = Enable*</td>
</tr>
<tr>
<td>USPS 4CB/One Conde Intelligent Mail</td>
<td>592</td>
<td>0x00 = Disable* 0x01 = Enable</td>
</tr>
<tr>
<td>UPU FICS Postal</td>
<td>611</td>
<td>0x00 = Disable* 0x01 = Enable</td>
</tr>
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<td>2D Symbologies</td>
<td>Parameter Numbers</td>
<td>Commands * Default</td>
</tr>
<tr>
<td>----------------------</td>
<td>-------------------</td>
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</table>
| PDF417               | 15                | 0x00 = Disable  
                            0x01 = Enable*         |
| Micro PDF417         | 227               | 0x00 = Disable*             |
| Data Matrix          | 292               | 0x00 = Disable  
                            0x01 = Enable*         |
| Data Matrix Inverse  | 588               | 0 - Regular Only*           
                            1 - Inverse Only     
                            2 - Inverse Autodetect |
| GS1 Data Matrix      | 1336              | 0x00 = Disable*             |
| Maxicode             | 294               | 0x00 = Disable  
                            0x01 = Enable*         |
| QR Code              | 293               | 0x00 = Disable*             |
| Micro QR Code        | 573               | 0x00 = Disable*             |
| Aztec                | 574               | 0x00 = Disable  
                            0x01 = Enable*         |
| Aztec Inverse        | 589               | 0 - Regular Only*           
                            1 - Inverse Only     
                            2 - Inverse Autodetect |
| Han Xin              | 1167              | 0x00 = Disable*             |
| Han Xin Inverse      | 1168              | 0 - Regular Only            
                            1 - Inverse Only     
                            2 - Inverse Autodetect |
Barcode Scanning using Barcode Reader

To test the functionality of the scanner, open [BCR Demo app] from application drawer. The Apps will allow to enable the imager, decode the barcode data, and display the barcode content.

**Note:** To set up the “Function buttons” as a barcode “Trigger”, go to [Android Settings → Key Remap].

- To start scanning, aim the imager at a barcode.
- Press once either of the trigger button
- To cancel the scanning, press trigger button once again.
- During scan by default the aimer and illumination will turn ON to assist in aiming.
- When the barcode is successfully decoded, by default a beep sound will turn ON, function LED will luminate blue, display the barcode content and a picture of the barcode.
Setting for User, Imaging and Symbology Parameters

To set the parameter of User, Imaging and Symbology run the **(BCR Demo app)** from the application drawer. For reference, see imaging and symbology parameters on this user manual.

Example:
To set “Decoding illumination” parameter to Disable:

- Enter the code of the Parameter for Decoding Illumination (**298**). *See parameters on this manual for reference.*
- Enter the command (**0**) for disable under “Value”.
- Tap SET to execute parameter.
- When successfully programmed, *(Set parameter 298 to 0 Done!)* will appear.

<table>
<thead>
<tr>
<th>Parameter</th>
<th>Parameter Number</th>
<th>Default</th>
<th>Commands</th>
</tr>
</thead>
<tbody>
<tr>
<td>Decoding Illumination</td>
<td>298</td>
<td>Enable</td>
<td>0 = Disable</td>
</tr>
<tr>
<td></td>
<td></td>
<td></td>
<td>1 = Enable</td>
</tr>
</tbody>
</table>

![BCR Demo app screenshot](image-url)

Code Output

Ready To Scan

Use built in scanner to scan a barcode

Parameter Number

298

Value

Set
Getting User, Imaging and Symbology Parameters

To get the parameter of User, Imaging and Symbology run the [BCR Demo app] in the application drawer. For reference, see imaging and symbology parameters on this user manual.

Example:
To get the parameter of “Motion illumination”:

- Enter the code of parameter (762) for “Motion Illumination” and tap “GET”.
- Check the parameter value under “Value”, should show as “1”.

![BCR Demo app interface](image)
Scanning QR code with Integrated Camera

To test the functionality of the camera for reading QR code, open (Camera / Snapdragon app) from application drawer. The App will allow to enable the camera as imager, decode the barcode data, and display the barcode content.

- Open the camera application (Snapdragon).
- Take a photo of the following QR code below.
- Tap the photo gallery at lower left corner.
- Below the QR code picture, tap the QR icon 📜.
- Tap the content of the QR code 📜.
  - After tapping the content (www.elotouch.com), the website will open.

![Photo Gallery](image)
Reading NFC Tag

To test the functionality of the NFC, set the NFC to enable, go to Android Setting → Connected Device → Connection preferences → NFC. Load a 3rd party NCF application e.g. TagWriter.

- To start reading NFC tag, open [TagWriter APK] or depending which application is installed
- Tap “Read Tags”.
- When device is ready to read, place the card and touch the back of the device.
- When the NFC card is read by default a beep sound will turn ON and display the NFC content.

![NFC Card Image]
About Cellular Phone - (LTE/4G/3G) (M50C WWAN SKU only)

The cellular phone is limited to a 3rd party calling (Skype, Line, WeChat). No voice calls.

**Supported Carriers Bands**

The following bands supported on AT&T, Verizon, T-Mobile, and Vodafone networks.

<table>
<thead>
<tr>
<th></th>
<th><strong>US</strong></th>
<th><strong>EU</strong></th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>WCDMA</strong></td>
<td>B2-1800</td>
<td>B1-1900</td>
</tr>
<tr>
<td></td>
<td>B4-1700</td>
<td>B8-900</td>
</tr>
<tr>
<td></td>
<td>B5-800</td>
<td></td>
</tr>
<tr>
<td><strong>LTE-FDD</strong></td>
<td>B2(10M)-1800</td>
<td>B1(10M)-1900</td>
</tr>
<tr>
<td></td>
<td>B4(10M)-1700</td>
<td>B3(10M)-1700</td>
</tr>
<tr>
<td></td>
<td>B12(5M)-700</td>
<td>B7(10M)-2600</td>
</tr>
<tr>
<td></td>
<td>B66(10M)-1700</td>
<td>B8(10M)-900</td>
</tr>
<tr>
<td></td>
<td></td>
<td>B20(10M)-800</td>
</tr>
</tbody>
</table>
About Android Debug Bridge (ADB) control

Elo Handheld computer device supports debugging via Wi-Fi/Ethernet or using the USB cable, Type C to Type A cable.

Set Mobile computer to (Developer)

- Enter Android Settings → About Phone → Build Number.
- Tap Build Number 7 times to enter developer mode.
- Go back to the Settings → System → Advanced and you will see “Developer Options”.
- From Developer options on-screen display, enable the option called “USB debugging”.

To connect via Wi-Fi

Ensure that your computer is online and not behind a firewall.

- Find the IP address (by going to Settings → Network & Internet → Wi-Fi → Tap the active connection → Advanced → IP Address).
- On your host computer, use the command ADB connect <IP address> to be able to perform ADB actions.

To connect via USB, perform the following steps

- Ensure the USB cable is not connected to the mobile computer.
- From the settings, enter Developers Options
- Turn on the “Enable USB Debugging” option
- Plug USB cable (type C) side into the computer device and (type A) to host PC.
- In the host PC, input “ADB devices” to check if the Elo Handheld Computer serial number shows up. If it is there, then you have connected successfully.
About Elo Mobile Factory Full Reset

A full factory reset should only performed if all other recovery methods have failed and all other troubleshooting options. Performing a full factory reset results in loss of data. This option will recover the original factory image state by erasing all data in the main storage on the Elo handheld computer.

**Note:** Performing a factory reset on Android bootloader menu, if you added a Google Account to Elo handheld Computer make sure you have your Google credential (Username and password) associated with the Elo handheld computer. If you don’t have it you will not be able to use the device after reset. This is a security measure that prevents unauthorized user from using the device if they do a factory reset on Android bootloader menu.

**To Reset**

- Enter Android **Settings → System → Advanced → Reset Options**.
- Tap **Erase all data**.
- Under **Erase all data (factory reset)** or **Erase all data (factory reset to EloView Mode)**, tap **Erase all data**.
- Under **Erase all data?**, tap **Erase all data**.
- When successfully done, the device will auto reboot.
Section 5: Technical Support and Maintenance

Technical Assistance

Technical Specifications
visit www.elotouch.com/products for technical specifications for this device

Support
visit www.elotouch.com/support for technical support

Refer to last page for worldwide technical support phone numbers.
Elo Mobile Computer Care and Handling

The following tips will help maintain optimal performance of your Elo Mobile Computer:

- To prepare for cleaning the touchscreen, power down the device (if possible), or ensure your on-screen software can tolerate false touches while you clean.

- Do not get liquids inside the unit. Do not spray the Elo product directly. Instead, use wet wipes, a sprayed cloth or a dampened cloth with the excess moisture squeezed off.

- Select only non-abrasive cleaning wipes or cloths to avoid scratching touchscreens.

- Avoid highly concentrated alcohol (> 70%), non-diluted bleach or ammonia solutions, as these may cause discoloration.

- Wipe the surfaces with the appropriate wipes or cloths and approved cleaning products and allow them to dry.

- For additional cleaning methods, recommended cleaning and disinfectant solutions, please visit https://www.elotouch.com/support/technical-support/cleaning
Section 6: Regulatory Information

Electrical Safety Information

Compliance is required with respect to the voltage, frequency, and current requirements indicated on the manufacturer’s label. Connection to a different power source than those specified herein will likely result in improper operation, damage to the equipment, or pose a fire hazard if the limitations are not followed.

There are no operator serviceable parts inside this equipment. There are hazardous voltages generated by this equipment which constitute a safety hazard. Service should be provided only by a qualified service technician.

Contact a qualified electrician or the manufacturer if there are questions about the installation prior to connecting the equipment to mains power.

Emissions and Immunity Information

Notice to Users in the United States:

FCC

§ 15.19 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 of the device.

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

§ 15.105 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 equipment should be installed and operated to ensure a minimum of 20 cm spacing to any person.
Notice to Users in Canada for IC compliance: This equipment complies with the Class B limits for radio noise emissions from digital apparatus as established by the Radio Interference Regulations of Industrial Canada.

CAN ICES3 (B)/NMB3(B)

This device contains license-exempt transmitter(s)/receiver(s) that comply with Innovation, Science and Economic Development Canada’s license-exempt RSS(s). Operation is subject to the following two conditions:

1. This device may not cause interference.
2. This device must accept any interference, including interference that may cause undesired operation of the device.

L’émetteur/récepteur exempt de licence contenu dans le présent appareil est conforme aux CNR d’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’appareil doit accepter tout brouillage radioélectrique subi, même si le brouillage est susceptible d’en compromettre le fonctionnement.

ISED RF Exposure Statement

This device complies with ISED RSS-102 RF exposure limits set forth for an uncontrolled environment. In order to avoid the possibility of exceeding the IC RSS-102 RF exposure limits, human proximity to the antenna shall not be less than 20cm (8 inches) during normal operation.

Cet appareil est conforme aux limites d’exposition aux rayonnements de la CNR-102 définies pour un environnement non contrôlé. Afin d’éviter la possibilité de dépasser les limites d’exposition aux fréquences radio de la CNR-102, la proximité humaine à l’antenne ne doit pas être inférieure à 20 cm (8 pouces) pendant le fonctionnement normal.

Notice to Users in the European Union: Use only the provided power cords and interconnecting cabling provided with the equipment. Substitution of provided cords and cabling may compromise electrical safety or CE Mark Certification for emissions or immunity as required by the following standards:

This Information Technology Equipment (ITE) is required to have a CE Mark on the Manufacturer’s label which means that the equipment has been tested to the following Directives and Standards: This equipment has been tested to the requirements for the CE Mark as required by EMC Directive 2014/30/ EU as indicated in European Standard EN 55032 Class B and the Low Voltage Directive 2014/35/EU as indicated in European Standard EN 62368-1.

General Information to all Users:

This equipment generates, uses, and can radiate radio frequency energy. If not installed and used according to this manual the equipment may cause interference with radio and television communications. There is, however, no guarantee that interference will not occur in any particular installation due to site-specific factors.

1. In order to meet emission and immunity requirements, the user must observe the following:
   a. Use only the provided I/O cables to connect this digital device with any computer.
   b. To ensure compliance, use only the provided manufacturer’s approved line cord.
c. The user is cautioned that changes or modifications to the equipment not expressly approved by the party responsible for compliance could void the user’s authority to operate the equipment.

2. If this equipment appears to cause interference with radio or television reception, or any other device:
   a. Verify as an emission source by turning the equipment off and on. If you determine that this equipment is causing the interference, try to correct the interference by using one or more of the following measures:
      i. Move the digital device away from the affected receiver.
      ii. Reposition (turn) the digital device with respect to the affected receiver.
      iii. Reorient the affected receiver’s antenna.
      iv. Plug the digital device into a different AC outlet so the digital device and the receiver are on different branch circuits.
      v. Disconnect and remove any I/O cables that the digital device does not use. (Unterminated I/O cables are a potential source of high RF emission levels.)
      vi. Plug the digital device into only a grounded outlet receptacle. Do not use AC adapter plugs. (Removing or cutting the line cord ground may increase RF emission levels and may also present a lethal shock hazard to the user.)

If you need additional help, consult your dealer, manufacturer, or an experienced radio or television technician.

Radio Equipment Directive

Elo hereby declares that the radio equipment type, Elo handheld Computer, is in compliance with Directive 2014/53/EU. The full text of the EU Declaration of Conformity is available at the following internet address: www.elotouch.com

This device is designed and intended for indoor use only.

Operation frequency and radio-frequency power are listed as below:

- WLAN 802.11b/g/n/ac
  - 2400 - 2434.5MHz < 17 dBm EIRP
  - 5150 - 5250MHz < 18 dBm EIRP
- BT 2400-2483.5MHz < 11 dBm EIRP
ECC/DEC/ (04)08:
The use of the frequency band 5 150-5 350 MHz is restricted to indoor operation because of the protection requirements of satellite services


Identification mark the relevant technical documentation is held at: Elo Touch Solutions, Inc. 670 N. McCarthy Boulevard Suite 100 Milpitas, CA 95035 USA

USA FCC ID: TBD
Canada IC ID: TBD

Agency Certifications
The following certifications and marks have been issued or declared for this peripheral:

- UL, FCC (US) – Class B
- cUL, IC (Canada)
- CB (International Safety)
- CE (Europe) – Class B
- VCCI (Japan)
- RCM (Australia)
- China RoHS

Waste Electrical & Electronic Equipment Directive (WEEE)

This product should not be disposed of with household waste. It should be deposited at a facility that enables recovery and recycling. Elo has put in place recycling arrangements in certain parts of the world. For information on how you can access these arrangements, please visit [www.elotouch.com/e-waste-recycling-program/](http://www.elotouch.com/e-waste-recycling-program/).

Replace the battery with same type only. Improper replacement of battery may cause in risk of burns, fire, and explosions. Dispose the battery according to local regulations. Risk of fire and burns if properly handled. Do not open and crush, heat above 60°C / 140°F or incinerate. If there is a serious swelling of the battery, do not continue using.
Section 7: Warranty Information

For warranty information, go to http://support.elotouch.com/warranty/
www.elotouch.com

Visit our website for the latest

- Product Information
- Specifications
- Upcoming Events
- Press Releases
- Software Drivers

To find out more about our extensive range of Elo touch solutions, go to www.elotouch.com, or call the office nearest you.

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