



LEX L10 MISSION CRITICAL HANDHELD USER GUIDE



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Chapter 1

About this Guide

This guide provides information about using the LEX L10 Mission Critical Handheld and accessories.



Note: Screens and menu options may be changed or customized by your agency to show different information.

1.1 Contact Us

Motorola Solution Support Center

The Solution Support Center (SSC) is the primary Motorola Solutions support contact. Call:

- Before any software reload.
- To confirm troubleshooting results and analysis before removing and replacing a Field Replaceable Unit (FRU) and Field Replaceable Entity (FRE) to repair the system.

For...	Phone
United States Calls	800-221-7144
International Calls	302-444-9800

North America Parts Organization

For assistance in ordering replacement parts or identifying a part number, contact the Motorola Parts organization. Your first response when troubleshooting your system is to call the Motorola SSC.

For...	Phone
Phone Orders	800-422-4210 (US and Canada Orders) For help identifying an item or part number, select choice 3 from the menu. 302-444-9842 (International Orders) Includes help for identifying an item or part number and for translation as needed.
Fax Orders	800-622-6210 (US and Canada Orders)

Comments

Send questions and comments regarding user documentation to documentation@motorolasolutions.com.

Provide the following information when reporting a documentation error:

- The document title and part number

- The page number with the error
- A description of the error

We welcome your feedback on this and other Motorola manuals. To take a short, confidential survey on Motorola Customer Documentation, go to docsurvey.motorolasolutions.com or scan the following QR code with your mobile device to access the survey.



1.2 Versions

This guide covers various software configurations and references are made to operating system or software versions discussed in the following three subsections.

1.2.1 Operating System Version

To determine the Operating System version, from the **Home** screen touch  →  → **About phone** → **Android Version**. The last line provides the Android version information. For example: 4.4.4.

1.2.2 Software Build Number

To determine the software build number, from the **Home** screen touch  →  → **About phone** → **Build Number**.

1.2.3 Kernel Version

To determine the kernel version, from the **Home** screen, touch  →  → **About phone** → **Kernel version**.

1.3 Chapter Descriptions

This Guide provides information on the features listed in the chapter descriptions below:

- Chapter 1, About this Guide: Customer contacts and general information related to this product.
- Chapter 2, Getting Started with the LEX L10: Getting the LEX L10 up and running for the first time.
- Chapter 3, Using the LEX L10: Operating the LEX L10.
- Chapter 4, Calling: Making and receiving calls.
- Chapter 5, Radio Remote Control: Connecting the LEX L10 to a Land Mobile Radio for communicating on LTE and P25 systems.
- Chapter 6, Messaging: Sending text and multimedia messages.
- Chapter 7 Applications: Using basic applications installed on the LEX L10 such as Camera, People and File Browser.
- Chapter 8, Wireless: Configuring the LEX L10 to operate on a personal, local and wide area wireless network.
- Chapter 9, Accessories: Available accessories and how to use them with the LEX L10.
- Chapter 10, Maintenance & Troubleshooting :Cleaning and storing the LEX L10, and troubleshooting solutions for potential problems.

- Chapter 11, Technical Specifications: Technical specifications for the LEX L10.

1.4 Helpful Background Information

Motorola offers various courses designed to assist in learning about the system. For information, go to <http://www.motorolasolutions.com/training> to view the current course offerings and technology paths.

1.5 Notational Conventions

The following conventions are used in this document:

Italics are used to highlight the following:

- Icons on a screen
- Chapters and sections in this and related documents

Bold text is used to highlight the following:

- Dialog box, window, and screen names
- Drop-down list and list box names
- Check box and radio button names
- Key names on a keypad
- Button names on a screen

Bullets (•) indicate:

- Action items
- Lists of alternatives
- Lists of required steps that are not necessarily sequential

Sequential lists (e.g., those that describe step-by-step procedures) appear as numbered lists.

1.6 Icon Conventions

The documentation set is designed to give the reader more visual clues. The following graphic icons are used throughout the documentation set. These icons and their associated meanings are described below.



Warning: The word WARNING with the associated safety icon implies information that, if disregarded, could result in death or serious injury, or serious product damage.



Caution: The word CAUTION with the associated safety icon implies information that, if disregarded, may result in minor or moderate injury, or serious product damage.



Note: NOTE contains information more important than the surrounding text, such as exceptions or preconditions. They also refer the reader elsewhere for additional information, remind the reader how to complete an action (when it is not part of the current procedure, for instance), or tell the reader where something is located on the screen. There is no warning level associated with a note.

1.7 Regulatory Information

BEFORE USING THIS device, READ the Product Regulatory, Safety & RF Exposure Guide (PN MN001458A01-A) included with this package.

1.8 Service Information

If you have a problem with your equipment, contact Motorola Solutions Global Customer Support Center for your region. Contact information is available at: <http://www.motorolasolutions.com/support>. You can also call 1-800-323-9949 for support and select option 6 for PS LTE infrastructure and devices. When contacting support, have the following information available:

- Serial number of the unit (found on manufacturing label)
- Model number or product name (found on manufacturing label)
- Software type and version number

Figure 1: Manufacturing Label



Motorola Solutions responds to calls by e-mail, telephone or fax within the time limits set forth in support agreements.

If your problem cannot be solved by Motorola Solutions Global Customer Support Center, you may need to return your equipment for servicing and will be given specific directions. Motorola Solutions is not responsible for any damages incurred during shipment if the approved shipping container is not used. Shipping the units improperly can possibly void the warranty. Remove the CRYPTR card or microSD card and SIM card before shipping.

If you purchased your product from a Motorola Solutions business partner, contact that business partner for support.

1.9 Documentation Set

Unless otherwise specified, Motorola Solutions documents listed here are available from Motorola Online at <https://businessonline.motorolasolutions.com>. If you are new to Motorola Online, follow the on-screen instructions to sign up for an account. To access Public Safety LTE infrastructure and device manuals, select **Resource Center** → **Product Information** → **Manuals** → **Network Infrastructure**.

The documentation set for the LEX L10 provides information for specific user needs, and includes:

- *LEX L10 Quick Start Guide* PN MN001457A01-A: describes how to get the LEX L10 up and running.
- *LEX L10 Mission Critical Handheld User Guide* (this guide) MN001456A01-A: describes how to use the LEX L10.
- *LEX L10 Push-To-Talk User Guide* PN xxxxxxxxA01-A: describes how to use the PTT feature on the LEX L10.
- *LEX L10 Regulatory and Safety Guide* PN MN001458A01-A: describes how to safely use the LEX L10.
- *LEX L10 Service Provisioning Guide* PN MN001462A01-A: provides technical instructions on how to activate, provision, and configure the LEX L10.
- *LEX L10 Vehicle Cradle Quick Reference Guide* PN MN001460A01-A: describes how to charge a single LEX L10 unit inside a vehicle.
- *LEX L10 Desktop Cradle Quick Reference Guide* PN MN001459A01-A: describes how to charge a single LEX L10 unit inside a vehicle.

For the latest version of this guide and all guides, go to: <https://businessonline.motorolasolutions.com>.

Chapter 2

Getting Started with the LEX L10

2.1 LEX L10 Features

Figure 2: LEX L10 Features



Table 1: LEX L10 Features

Item	Function
Charge and Notification LED	Solid Blue: New notification (New Voice mail, New Text messages, Missed Calls, Android App Notifications, etc.) Off: Battery is not charging. Solid Red: Battery is charging. Blinking Amber: Waiting to charge. Solid Green: Fully Charged.

Table continued...

Item	Function
Ambient Light Sensor	Determines ambient light for controlling display back-light intensity.
Proximity Sensor	Turning off display when the phone is close to ear.
Screen	Tap screen displays all information needed to operate the LEX L10.
	Recent Apps key — Press to switch to, stop or manage applications currently running on the background of the LEX L10.
	Home key — Displays the Home screen with a single tap.
	Back key — Displays the previous screen. Closes the keyboard if the on-screen keyboard is open.
Primary Microphone/Speaker	Use for communications in handset mode. Provides audio output for video and voice playback in speakerphone mode.
	Menu key — At any screen or application, press to see available options.
Headset Port	Connects to headsets (3.5 mm plug).  Note: Do <u>not</u> use 2.5 mm to 3.5 mm adapters
Volume Up/Down Buttons	Increase and decrease audio volume.
PTT Button	Push-to-Talk (PTT) button enables Push-to-Talk services over a broadband network and can also be interconnected to Project 25 Land Mobile Radio (LMR) networks. The PTT application offers calls, alerts, group calls, Talk Group calls, and Talk Group monitoring and scanning. For PTT button and application operations, see Push-to-Talk User Guide for LEX L10 PN MNxxxxxxxxx  Important: The PTT is an optional feature that requires installation of software and system connection following the LEX L10 shipping. To verify if the PTT feature is enabled on the device, contact your technical support.
Power Button	Press and hold to turn on the LEX L10. Press to turn the screen on or off. Press and hold to select one of these options: • Power On/Off — Turn On/Off the LEX L10. • Airplane mode — Disables all wireless connections. • Service switch — Switches between public and Private carrier modes. • Covert mode — In covert mode, all sounds and visual indications of the LEX L10 are turned off. See Covert Mode on page 39.

Table continued...

Item	Function
	• Vibrate mode — Sets the LEX L10 to vibrate only. • Speaker on — Routes the earpiece sound to the speaker.
Front Camera	Used to capture live video for video calls.
Earpiece	Provides audio in handset mode.
Secondary Microphone	Use for making voice recordings and communications in speakerphone mode.
Interface Connector	Provides power to the LEX L10 from cradles.
Battery Cover Latch	Assists in battery cover removal to provide access to the battery, SIM, CRYPTR and microSD card holders.
Camera Button	Starts the camera and takes photos and video.
microUSB Port	Provides USB client and host communications.
Radio Paring Point	Serves as a secure Bluetooth pairing point with Motorola Solutions Land Mobile Radios (LMR).
Back Camera and Flash	Takes photos and video, and provides flash illumination for the camera.

2.2 Unpacking

Carefully remove all protective material from the LEX L10 and save the shipping container for later storage and shipping. Verify that the following were received:

- LEX L10
- Battery Cover
- 2280 mAh Lithium-ion battery
- USB Charger
- USB Cable
- Regulatory Guide
- Quick Start Guide

Inspect the equipment for damage. If any equipment is missing or damaged, contact the Motorola Solutions Support Center immediately.

2.3 Setting Up the LEX L10



Note: The LEX L10 may be delivered to you with battery, SIM card, microSD card and/or CRYPTR cards already installed, activated and ready for use. In this case, ignore steps 2 through 6 of the following section if they were already performed.

Before using the LEX L10 for the first time, perform the following:

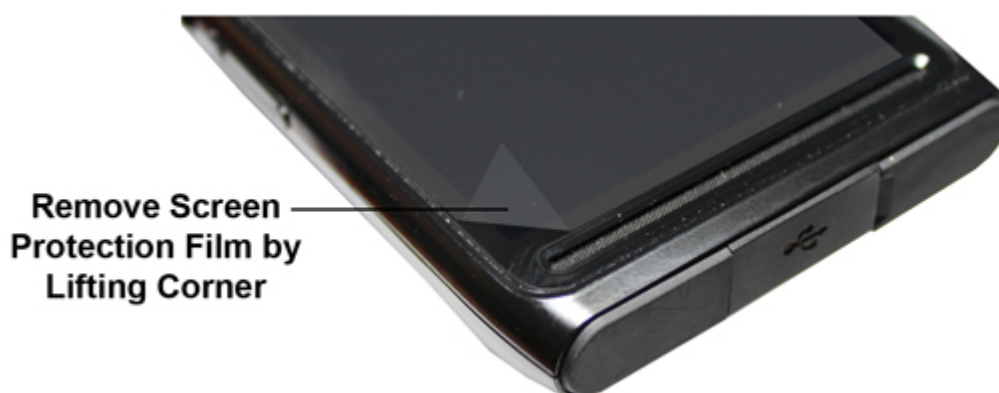
- 1 Remove the screen protection film from the LEX L10 screen. (See [Removing the Screen Protective Film on page 28](#)).
- 2 Install the public and/or Private SIM cards. (See [Installing the Public and Private SIM Cards on page 30](#)).

- 3 Install the microSD or CRYPTR card (optional). (See [Installing a microSD or CRYPTR micro Encryption Card on page 29](#)).
- 4 Install the battery. (See [Installing the Battery on page 31](#)).
- 5 Install the battery cover.
- 6 Charge the LEX L10. (See [Charging the LEX L10 on page 32](#)).

2.3.1 Removing the Screen Protective Film

The LEX L10 is provided with a screen protective film that protects the device during shipping. To enable proper operation of the LEX L10, the screen protector must be removed before use.

Figure 3: Removing the Screen Protective Film



2.3.2 Removing the Battery Cover

This procedure explains how to remove the battery cover.

Procedure:

- 1 Hold the LEX L10 firmly as shown.
- 2 Using the battery cover removal slot, gently lift the battery cover up and away from the LEX L10.

Figure 4: Removing the Battery Cover

2.3.3 Installing a microSD or CRYPTR micro Encryption Card

The LEX L10 card holder can support either a microSD card or a CRYPTR micro encryption card. The microSD card is a removable flash memory used for storing media on the LEX L10. The LEX L10 can support microSD cards with up to 64GB memory space. The CRYPTR micro encryption card is used for voice encryption in features such as data and phone over Virtual Private Network (VPN) and Push-to-Talk (PTT) communication. The slot of the card is located under the LEX L10 battery.

When and where to use:



Note: The LEX L10 may be delivered to you with battery, SIM card and microSD or CRYPTR card already installed, activated and ready for use. In case a CRYPTR is pre-installed in the LEX L10, you will be required to change the CRYPTR password initially provided by your technical support. CRYPTR password is required whenever the LEX L10 is restarted.

Procedure:

- 1 Slide the card into the card holder slot with contacts facing down.
- 2 Push the card into the slot until it is fully seated and locked into place.

Figure 5: Installing the microSD or CRYPTR micro Encryption Card

2.3.4 Removing the microSD or CRYPTR Card

When and where to use: Use this procedure to remove the microSD or CryptR micro Encryption Card:

Procedure:

- 1 Press and hold the **Power** button for three seconds.
- 2 Touch **Power Off**.
- 3 Touch **OK**.
- 4 Lift the battery cover.
- 5 Push the Card Holder lock down to release the card.
- 6 Remove the Card from the holder.
- 7 Replace the battery cover.

2.3.5 Installing the Public and Private SIM Cards

Prerequisites: Public and private phone services require a Subscriber Identification Module (SIM) card. The card can contain the following information:

- Mobile phone service provider account details.
- Information regarding service access and preferences.
- Contact information, which can be moved to the People application on the LEX L10.
- Any additional subscribed services.



Note: The LEX L10 requires activated SIM cards. Obtain activated SIM cards from your organization administrator.



Caution:

- Electrostatic discharge (ESD) precaution.
- For proper 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.

When and where to use: Use this procedure to install a SIM card:

Procedure:

- 1 If the battery is in place, remove the battery as described in [Removing the Battery on page 32](#).
- 2 Slide the SIM card into the SIM card holder with the contacts facing down. Note the card notch position.
- 3 Push that the SIM card into the holder until it is fully seated and flat.
You should hear a click when the SIM card in fully in place.

Figure 6: Installing the Public and Private SIM Cards



2.3.6 Removing the Public and Private SIM Cards

When and where to use: Use this procedure to remove the public or private SIM Cards:

Procedure:

- 1 Press and hold the **Power** button for three seconds.
- 2 Touch **Power Off**.
- 3 Touch **OK**.
- 4 Lift the battery cover.
- 5 Slide the battery latch to **Unlock** position.
- 6 Lift the battery out of the LEX L10.
- 7 Push the SIM card to release it from the holder.
- 8 Remove the SIM card.
- 9 Place the battery back into the LEX L10.
- 10 Snap the battery cover back into place.

2.3.7 Installing the Battery

When and where to use: Use this procedure to install the battery:

Procedure:

- 1 Remove the battery from the packaging.
- 2 Insert the battery into the battery compartment with the battery contacts facing the bottom of the LEX L10.
- 3 Press the top of battery into place.
- 4 Place the battery cover into place.

Figure 7: Installing the Battery

2.3.8 Removing the Battery

When and where to use: Use this procedure to remove the battery:

Procedure:

- 1 Slide a finger nail (preferably a thumb nail) into the Battery Cover removal slot and gently pull the Battery Cover away from the LEX L10
- 2 Remove the Battery Cover.
- 3 Slide the Battery Lock up and hold it.
- 4 With the tip of your finger, lift up the battery from the side closest to the top side of the LEX L10.

2.4 Charging the LEX L10

Before using the LEX L10 for the first time, charge the battery using the provided USB Charger and USB Cable or connect the USB Cable to the USB port of a personal computer. An unused battery fully charges in less than six hours.

The LEX L10 battery can also be charged by one of the optional charging cradles.

Figure 8: Charging the LEX L10

Note: For detailed description, installation and operation of the LEX L10 accessories, refer the quick start guides provided with each accessory.

2.4.1 Charging Temperature

Charge batteries in temperatures from 0°C to 40°C (32°F to 104°F). Note that charging is intelligently controlled by the LEX L10.

To accomplish this, for small periods of time, the LEX L10 alternately enables and disables battery charging to keep the battery at acceptable temperatures. The LEX L10 LED indicates when charging is disabled due to abnormal temperatures by fast blinking amber (once every 2 seconds).

2.4.2 Battery Charge Indications

The Charge and Notification LED is located at the top, front of the LEX L10.

Battery charging and power level is also indicated by a battery icon on the status bar.



Note: Before checking the battery charge level, remove the LEX L10 from any power source (cradle or USB cable connection).

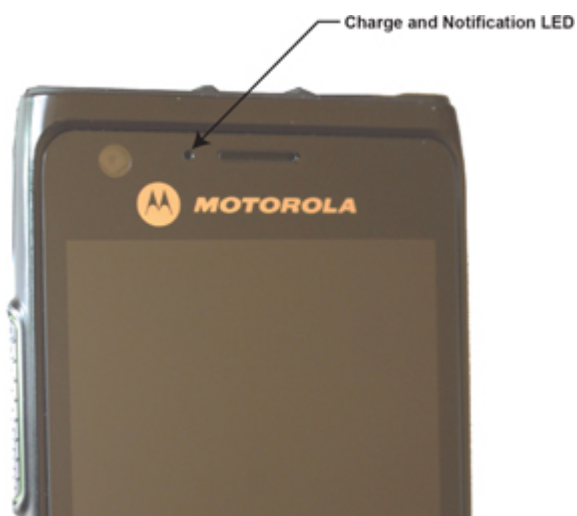
Figure 9: Charge and Notification LED

Table 2: Charge and Notification LED — Charging Indications

Status	Indications
Off	Battery is not charging. Could indicate that: • LEX L10 is not inserted correctly in the cradle • LEX L10 is not connected to a USB cable • Charger or cradle is not powered
Slowly blinking red (once every 2 seconds)	Battery power is extremely low (less than 10% power left).
Solid red	LEX L10 is charging.
Fast blinking red (once every 0.5 second)	Charging error: • Temperature is too low or too high • Charging has gone on too long without completion (typical charge is four hours)
Slowly blinking green (once every 2 seconds)	Battery is greater than 90% charged.
Solid green	LEX L10 is completely charged.
Slowly blinking blue (once every 4 seconds)	A new notification has been received.
Alternately blinking blue (1 second) and red (3 seconds)	LEX L10 is charging and a new notification is received.
Alternately blinking blue (1 second) and green (3 seconds)	LEX L10 is completely charged and a new notification is received.
Slowly blinking blue and red (every other second)	Battery power is extremely low (less than 10% power left) and a new notification is received..
Alternately blinking blue (1 second) and fast blinking red (every 0.5 seconds for 3 seconds)	A new notification is received during a charging error.
Slowly blinking amber (once every 2 seconds)	LEX L10 is waiting to charge.

When the battery power falls below a predetermined level the icon indicates the status and a battery dialog box appears indicating the status of the battery. The message displays until the user taps **Dismiss**.

To monitor battery usage, from the **Home** screen, touch  →  → **Battery**.

2.4.3 Battery Management



Note: Before checking the battery charge level, remove the LEX L10 from any AC power source (cradle or cable).

To check the charge status of the main battery, tap  →  → **About phone** → **Status**.

Battery status indicates that the battery is discharging and **Battery level** lists the battery charge (as a percentage of fully charged).

2.4.3.1 Monitor Battery Usage

The **Battery** screen lists which applications consume the most battery power. Also use it to turn off applications that were downloaded if they are consuming too much power.

To monitor battery usage, tap  →  → **Battery**.

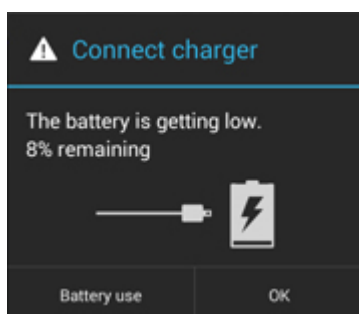
Figure 10: Battery Screen

The **Battery** screen lists the applications using the battery. The discharge graph at the top of the screen shows the rate of the battery discharge since last charged (short periods of time when connected to a charger are shown as thin green lines at the bottom of the chart), and how long it has been running on battery power.

Tap an application in the **Battery** screen to display details about its power consumption. Different applications display different information. Some applications include buttons that open screens with settings to adjust power use.

2.4.3.2 Low Battery Notification

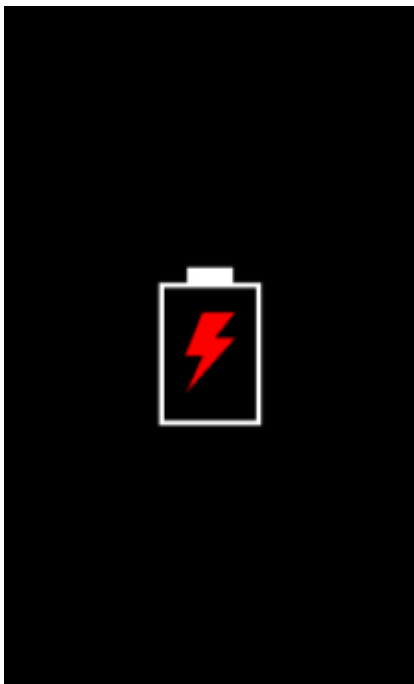
When the battery charge level drops below 20%, the LEX L10 displays a notice to connect the LEX L10 to power. The user should charge the battery using one of the charging accessories.

Figure 11: Low Battery Notification

When the battery charge drops below 10%, the LEX L10 displays a notice to connect the LEX L10 to power. The user must charge the battery using one of the charging accessories.

When the battery charge drops below 4%, the LEX L10 turns off. Anytime the user then tries to power on the LEX L10, the following screen appears.

The user must charge the LEX L10 using one of the charging accessories to retain data.

Figure 12: Battery Depleted Screen

The user must charge the LEX L10 using one of the charging accessories.

2.4.3.3 Battery Optimization

Observe the following battery saving tips:

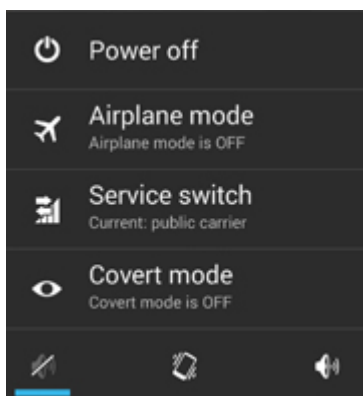
- Leave the LEX L10 inside a cradle connected to AC power at all times when not in use.
- Turn off Bluetooth if not needed.
- Turn off WiFi if not needed.
- Change screen time-out to as short as possible.
- Charge the LEX L10 when not in use.
- Set the screen to Suspend (Sleep) after a short period of non-use.
- Reduce screen brightness.
- Minimize use of applications that keep the LEX L10 from suspending, for example, music or video applications.

2.4.3.3.1 Turning Off the Radio

When and where to use: Use this procedure to turn off the LEX L10 radios.

Procedure:

- 1 Press the **Power** button until the **Quick Settings** menu appears.

Figure 13: Quick Settings Menu — Airplane Mode

- 2 Tap **Airplane mode**. Alternately, open the **Notification** panel and tap  → **Airplane Mode**.
The airplane icon  appears in the **Status** bar indicating that all the radios are off.

2.5 Powering On the LEX L10 for the First Time

Press the **Power** button to turn on the LEX L10. The LEX L10 boot screen displays as the LEX L10 boots.

Figure 14: LEX L10 Boot Screen

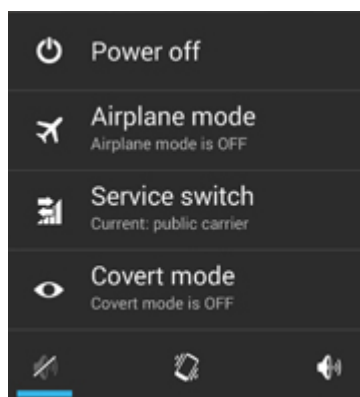
2.6 Powering Off the LEX L10

When and where to use: Use this procedure to power off the LEX L10:

Procedure:

- 1 Press and hold the **Power** button until the **Power Button** menu appears.

Figure 15: Selecting Power Off



- 2 Tap **Power off** and then **OK**.
Your phone will shut down is displayed on the screen.

2.7 Entering and Exiting the Suspend Mode

Suspend mode (also known as sleep mode) is a low-power mode of operation that helps reduce electrical power consumption by shutting down parts of the LEX L10 that are not in use. The LEX L10 goes into Suspend mode when the **Power** button is pressed or after a time out period of inactivity.

When and where to use: Use this procedure to enter and exit Suspend mode:

Procedure:

- 1 To enter **Suspend** mode, press and release the **Power** button.
The LEX L10 screen turns off.



Note: In **Suspend** mode, the following items continue to operate:

- **Power** button
- **PTT Button** (if set to be used)
- Notification LEDs
- Wireless communication.

- 2 To exit **Suspend** mode, press and release the **Power** button.

2.7.1 Setting Time Out to Enter Suspend Mode

When and where to use: Use this procedure to set the period of inactivity before suspend mode occurs:

Procedure:

- 1 From the Home screen, tap: **Settings** → **Display** → **Sleep**.
- 2 Check the inactivity duration before Suspend mode becomes active.

- 3 Press the **Home** key.

2.8 Covert Mode

Covert Mode gives you the ability to shut down all visible and audible LEX L10 alerts and notifications. This feature makes the LEX L10 effectively unnoticeable even in a silent and dark environment.

In **Covert Mode**, the following sounds, visual indications, and keys of the LEX L10 are disabled

- Display brightness
- Touchscreen
- Keylight
- LED indications
- Vibration
- Speaker audio



Note: In **Covert Mode**, sound is routed to a Bluetooth headset, if connected or sound is routed to a wired earpiece, if connected. Alternatively, sound is routed to the LEX L10 earpiece.

- Tone indications



Note: In **Covert Mode**, the following features remain active:

- **Power** button
- **PTT** button
- **Volume** button
- Four front panel keys
- **Camera** button
- Audio or tone indications are available using a wired headset(through headset port) or a Bluetooth headset

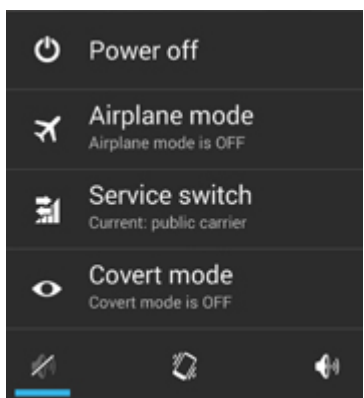
2.8.1 Turning On Covert Mode

Procedure:

- 1 Press and hold the **Power** button for at least two seconds.

The following **Power Button** menu displays:

Figure 16: Power Button Menu



- 2 Tap **Covert mode**.
The LEX L10 screen goes blank.

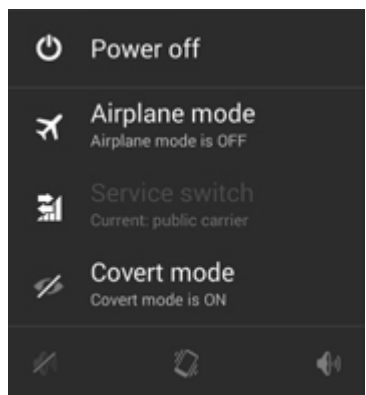
2.8.2 Turning Off Covert Mode

Procedure:

- 1 Press and hold the **Power** button for at least two seconds.

The following **Power Button** menu displays:

Figure 17: Power Button Menu



- 2 Tap **Covert mode**.

The **Home** screen appears.

2.9 Locking the LEX L10

The lock screen automatically displays after predefined time out to prevent unauthorized people using the LEX L10. The LEX L10 does not lock at the same time as it is suspended. The LEX L10 can also be locked manually by the user to disable unwanted key presses or screen tap or to keep data secured. To manually lock the LEX L10, press and release the Power button. When the LEX L10 is locked and cellular network signal is available, phone calls, notification of new messages, missed calls and upcoming appointments still can be received. The LEX L10 locks after a specified time.

2.9.1 Selecting a Locking Option

When and where to use: Security dictates a specific level of locking for the LEX L10.

Procedure:

- 1 Tap

- 2 Tap

- 3 Tap **Security**.

- 4 Tap **Screen lock**.

The following options are displayed:

- **None**.
- **Slide** — User slides the lock to unlock the device.
- **Pattern** — User must replicate a specified pattern to unlock the device.
- **PIN** — User must enter a pin to unlock the device.
- **Password** — User must enter a specified password to unlock the device.

- 5 Select an option.

If **None** or **Slide** is selected, the **Security** screen is re-displayed. If **Pattern**, **PIN**, or **Password** is selected, a pattern, pin or password must be specified. Then, the **Security** screen is re-displayed.

The LEX L10 is now set to lock.

Postrequisites: Specify a pattern as described in [Specifying a Pattern on page 41](#) Specify a pin, or password as described in [Specifying a PIN or Password on page 41](#). Then, specify a timeout value as described in [Setting the Timeout for Locking the LEX L10 on page 41](#).

2.9.1.1 Specifying a Pattern

Prerequisites: The **Pattern** option has been selected for **Screen lock**.

Procedure:

- 1 Tap .
 - 2 Tap .
 - 3 Tap **Security lock**.
 - 4 Select **Pattern**.
 - 5 Using a finger, draw a pattern to unlock your LEX L10
 - 6 Tap **Continue**.
 - 7 Draw the same pattern again.
 - 8 Tap **Confirm**.
- The **Security** screen is re-displayed.

A pattern must be entered to unlock the LEX L10.

2.9.1.2 Specifying a PIN or Password

Prerequisites: The **PIN** or **Password** option has been selected for **Screen lock**.

Procedure:

- 1 Tap .
 - 2 Tap .
 - 3 Tap **Security lock**.
 - 4 Select **PIN** or **Password**.
 - 5 Enter a pin or password.
 - 6 Tap **Continue**.
 - 7 Enter the pin or password again.
 - 8 Tap **OK**.
- The **Security** screen is re-displayed.

A pin or password must be entered to unlock the LEX L10.

2.9.1.3 Setting the Timeout for Locking the LEX L10

Select a timeout value to lock the LEX L10.

Prerequisites: Screen lock must be set to **Pattern**, **PIN**, or **Password**.

Procedure:

- 1 Tap .

- 2 Tap .
- 3 Tap **Security**.
- 4 Tap **Automatically lock**.
A list of timeout values is displayed.
- 5 Select a timeout value from the list.
- 6 The **Security** screen is re-displayed.

2.9.2 Unlocking the LEX L10

When the LEX L10 is not used for a period of time and the user tries to access the device, the **Lock** screen displays. Depending on which **Screen lock** option is active, the user does one of the following:

- Nothing
- Slide the slider to the unlock position
- Enter a pattern, pin, or password.

2.9.2.1 Unlocking the LEX L10 Using a Pattern

When and where to use: Use this procedure to unlock the screen with a pattern.

Procedure:

- 1 Press and release the **Power** button.
- 2 Using a finger, draw the specified pattern on the screen.
Once the correct pattern is drawn, the LEX L10 unlocks.

2.9.2.2 Unlocking the LEX L10 Using a PIN or Password

When and where to use: Use this procedure to unlock the screen with a pin or password.

Procedure:

- 1 Press and release the **Power** button.
- 2 In the text field, enter your pin or password.
- 3 Tap **Done**.

The LEX L10 unlocks and the **Home** screen is shown.

2.9.3 Calling Emergency from a Locked LEX L10

You can make an emergency call even when the LEX L10 is locked and you do not remember the PIN.

When and where to use: Use this procedure to make an emergency call when the LEX L10 is locked and you do not remember the PIN:

Procedure:

- 1 Tap **EMERGENCY CALL** at the bottom of the lock screen.
The **Emergency Dialer** screen displays.
- 2 Enter the emergency number.
- 3 Tap .

2.10 Setting the Date and Time

When the LEX L10 is connected to cellular network, date and time are automatically synchronized.

When and where to use: Perform this procedure to manually set the date and time:

Procedure:

- 1 Tap .
- 2 Tap .
- 3 Tap **Date & time**.
- 4 Tap **Automatic date & time** to disable automatic date and time synchronization.
- 5 Tap **Automatic time zone** to disable automatic time zone synchronization.
- 6 Tap **Set date**.
- 7 Slide your finger up and down to select the month, date and year.
- 8 Tap **Done**.
- 9 Tap **Set time**.
- 10 Slide your finger up and down to select the hour, minutes and part of the day.
- 11 Tap **Done**.
- 12 Tap **Select time zone**.
- 13 Tap to select a time zone from the list.
- 14 Tap .

2.11 Setting the Display

The following LEX L10 display features can be customize:

- Brightness — Set the brightness of the display.
- Auto-rotate — Set the content to rotate automatically when the LEX L10 is turned.
- Sleep — Set the length of time the LEX L10 waits before turning off the display's backlight.
- Daydream — Set the LEX L10 to launch a screensaver when the LEX L10 is docked inside a cradle or charging.
- Font size — Change the font size for display text.
- Cast screen —

2.11.1 Setting Screen Brightness

To set the screen brightness:

Procedure:

- 1 Tap .
- 2 Tap .
- 3 Tap **Display**.
- 4 Tap **Brightness**.
- 5 Tap **Automatic brightness** to set the device to automatically adjust the brightness using the built-in light sensor. Use the slider to set a brightness level.
- 6 Tap .

2.11.2 Setting Screen Rotation

Screen rotation enables the LEX L10 to automatically determine the orientation of the screen to portrait or landscape.

When and where to use: Use this procedure to set screen rotation:

Procedure:

- 1  **Note:** Some applications may not support screen rotation.

Tap .

- 2 Tap .

- 3 Tap **Display**.

- 4 Check **Auto-rotate** screen to automatically switch orientation when the LEX L10 is rotated.



Note: The **Home** screen does not rotate.

- 5 Tap .

2.11.3 Setting Up Sleep Mode

When and where to use: Use this procedure to set up sleep mode (screen time-out):

Procedure:

- 1 Tap .

- 2 Tap .

- 3 Tap **Display**.

- 4 Tap **Sleep**.

- 5 Select one of the sleep values:

- 15 seconds
- 30 seconds (default)
- 1 minutes
- 2 minutes
- 5 minutes
- 10 minutes
- 30 minutes

- 6 Tap .

2.11.4 Setting Up Daydream

The Daydream application behaves as a screensaver when the LEX L10 is docked inside a cradle and/or in sleep mode.

Procedure:

- 1 From the **Home** screen, tap .

- 2 Tap .

- 3 Tap **Display**.

- 4 Tap **Daydream**.

- 5 Select from **Clock**, **Colors**, **Photo Frame** or **Photo Table**.

- 6 Tap  to configure the item selected in the previous step.
- 7 Tap **WHEN TO DAYDREAM** and select when you would like the feature to be active (While docked, while charging or either).
- 8 Tap **START NOW** to preview and confirm your selection.
- 9 Tap .

2.11.5 Setting the Font Size

When and where to use: Use this procedure to change the font size.

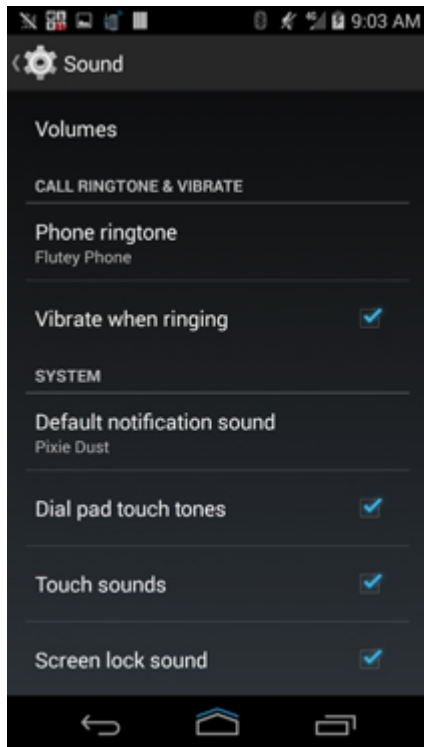
Procedure:

- 1 Tap .
- 2 Tap .
- 3 Tap **Display**.
- 4 Tap **Font size**.
- 5 Select one of the font size values:
 - Small
 - Normal (default)
 - Large
 - Huge
- 6 Press .

2.12 General Sound Setting

Use the **Sounds** settings to configure media and alarm volumes. On the **Home** screen, tap  →  → **Sound**.

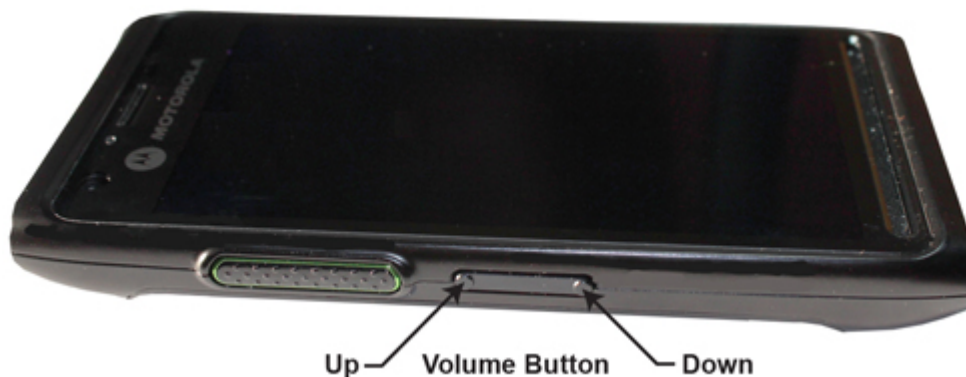
Alternately, open the **Notification** panel and tap  → **Settings** → **Sound**.

Figure 18: Sound Screen

- **Volumes** – Use to change the volume of media, ringtones, notifications, and alarms.
- **Call Ringtone and Vibrate**
 - **Phone ringtone** — Tap to select a ringtone to sound when an incoming call is received.
 - **Vibrate when ringing** — Check to make the device vibrate when a call is received.



Note: Setting volume can also be done by pressing the **Volume** button, up and down, during a call, or while playing music or a video. When not on a call, pressing the **Volume** button all the way down to set the LEX L10 to vibrate. During an in-coming call, pressing the **Volume** button up and down changes the ringtone volume.

Figure 19: Volume Button

- **System**
 - **Default notification sound** — Tap to select a sound to play for all system notifications.
 - **Dial pad tap tones** — Check to play a sound when a LEX L10 key is touched.
 - **Touch sounds** — Check to play a sound when making screen selections.

- **Screen lock sounds** — Check to play a sound when locking and unlocking the screen.
- **Vibrate on tap** — Check to have the device vibrate when touching soft keys and on certain screen interactions.
- **Emergency tone** — Select and check **Alert** to play a tone or **Vibrate** when an emergency notification is received. Select **Off** to disable emergency notification.

2.13 Public and Private Carrier Modes

The LEX L10 is capable of operating on the following bands:

Private Mode

- LTE B14

Public Mode

- LTE B4 and B13
- CDMA EVDO Rev. A (Band 0, Band 1) 3G, 1X

The user can manually switch modes to operate on the Private Mode LTE network or the Public Carrier Mode.

2.13.1 Switching Modes Using the Power Button

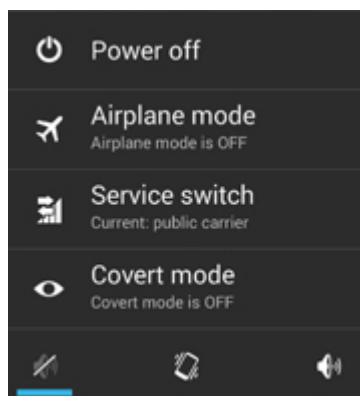
Prerequisites: The LEX L10 is equipped with Private and Public enabled SIM cards.

When and where to use: You may need to switch between private and public network modes when you want to use capabilities provided by one network that are not provided by the other. For example, if the phone is in private mode, switch to public mode before you can dial numbers that are not included in the private network.

Procedure:

- 1 Press and hold the **Power** button until a menu appears.

Figure 20: Service Switch



- 2 Tap **Service switch**.

The current carrier mode is indicated under the **Service switch** option.

- 3 Tap **Reboot now**.

The LEX L10 powers off and restarts in the optional carrier mode.

2.13.2 Switching Modes Using the Settings App

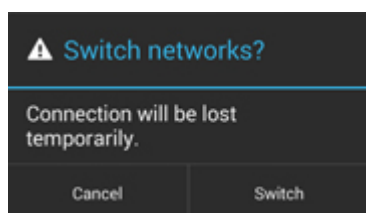
Prerequisites: The LEX L10 is equipped with Private and Public enabled SIM cards.

When and where to use: You may need to switch between private and public network modes when you want to use capabilities provided by one network that are not provided by the other. For example, if the phone is in private mode, switch to public mode before you can dial numbers that are not included in the private network.

Procedure:

- 1 On the **Home** screen, tap .
- 2 Tap .
- 3 Tap **More...**.
- 4 Tap **Mobile networks**.
- 5 Tap **Select network**.
- 6 Select **Public** or **Private**.
A confirmation popup is displayed.

Figure 21: Switch Networks Confirmation Popup



- 7 Tap **Switch**.

Chapter

3

Using the LEX L10

This chapter explains the indicators, buttons, status icons, and controls on the LEX L10. This chapter also provides basic instructions for using the device.

3.1 Using the Touchscreen

Use the multi-tap sensitive screen to operate the device.

Table 3: Using the Touchscreen

Action	Result
Tap	Tap to: • select items on the screen • type letters and symbols using the on-screen keyboard • press on-screen buttons
Tap and Hold	Tap and hold: • an item on the Home screen to move it to a new location or to the trash • an item in Apps to create a shortcut on the Home screen • the Home screen to open a menu for customizing the Home screen • an empty area on the Home screen until the menu appears
Drag	Tap and hold an item for a moment and then move finger on the screen until reaching the new position.
Swipe	Move finger up and down or left and right on the screen to: • unlock the screen • view additional Home screens • view additional application icons in the Launcher window • view more information on an application's screen
Double-tap	Tap twice on a web page, map, or other screen to zoom in and out.

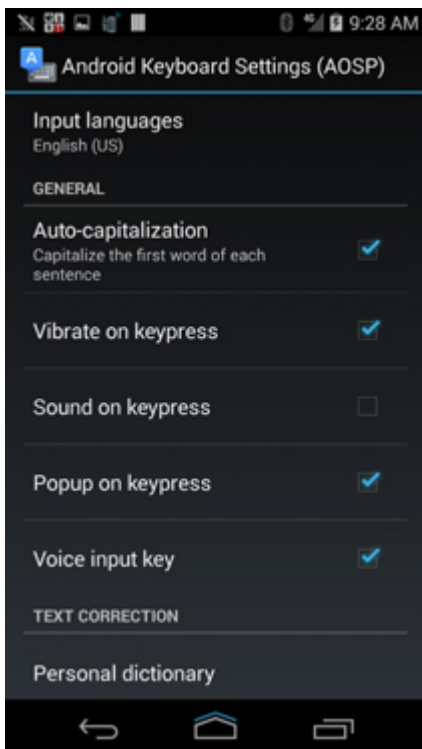
Table continued...

Action	Result
Pinch	In some applications, zoom in and out by placing two fingers on the screen and pinching them together (to zoom out) or spreading them apart (to zoom in).

3.2 Using the On-Screen Keyboard

Use the on-screen keyboard to enter text in a text field. To configure the keyboard settings, tap and hold  (comma key) > slide your finger up to  and then select **Android Keyboard Settings**.

Figure 22: Android Keyboard Settings



A description of the settings can be found in [Android Keyboard Settings on page 51](#).

Editing Text

Edit entered text and use menu commands to cut, copy, and paste text within or across applications. Some applications do not support editing some or all of the text they display; others may offer their own way to select text.

Entering Numbers, Symbols and Special Characters

To enter numbers and symbols:

- Without switching to the **Numbers** or **Symbols** keyboard, tap and hold one of the top-row keys until a menu appears then select a number. Keys with alternate characters display an ellipsis (...) below the character.
- Tap the **Shift** key to enter one capital letter.
- Tap and hold the **Shift** key until it changes state (**Shift** key is underlined) to enter two or more capital letters. Tap **Shift** key again to return to the lowercase keyboard.

- Tap  to switch to the numbers and symbols keyboard.
- Tap the  key on the numbers and symbols keyboard to view additional symbols.

To enter special characters, tap and hold a number or symbol key to open a menu of additional symbols.

- A larger version of the key displays briefly over the keyboard.
- Keys with alternate characters display an ellipsis (...) below the character.

3.2.1 Android Keyboard Settings

Table 4: Android Keyboard Settings

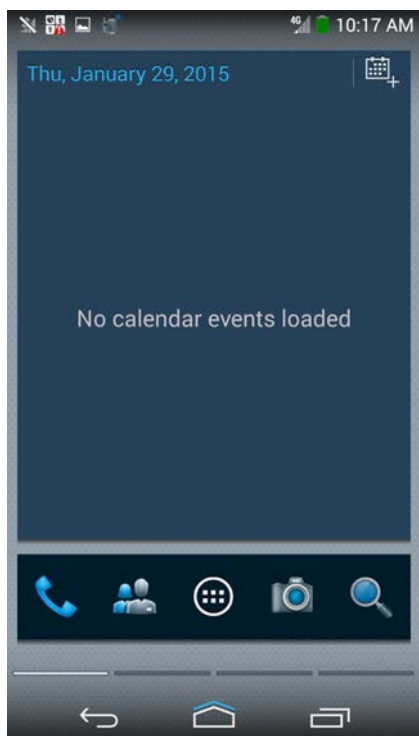
Setting	Description
GENERAL	
Input Languages	Selects the language used in the keyboard.
Auto-capitalization	Automatically capitalize the first letter after a period.
Vibrate on keypress	Vibrates the LEX L10 when a key is pressed.
Sound on keypress	Makes a sound on the LEX L10 when a key is pressed.
Popup on keypress	Pops up a duplicate of the key pressed.
Voice input key	Allows you to speak the name of the key to input a key.
TEXT CORRECTION	
Personal Dictionary	Uses your personal dictionary when correcting words.
Add-on dictionaries	Allows you to add additional dictionaries to correct words.
Block offensive words	Blocks offensive words from being suggested to correct words.
Auto-correction	Sets the level of auto-correction to: Off , Modest , Aggressive , or Very aggressive .
Show correction suggestions	Displays a list of corrections so that you can select make a selection.
OTHER OPTIONS	
Next word suggestions	Anticipates the next word that you want to type based on the last word typed.
Advanced settings	The Advanced settings should only be set by experts.

3.3 Motorola Solutions Home Experience (MHx)

The Motorola Solutions Home Experience (MHx) is the engine that drives the user interface of the LEX L10. Specifically, MHx provides an unique experience for customizing the LEX L10 **Home** screen.

3.3.1 Home Screen

The **Home** screen displays after the LEX L10 turns on and unlocks.

Figure 23: Default Home Screen

The **Home** screen is completely customizable depending on the specifications for your agency. Each organization may have a different **Home** screen. Contact your technical support for more information.



Note: When CRYPTR Card is used, the LEX L10 requires setting a password after initial boot and entering this password whenever the LEX L10 restarts.

After a suspend or screen time-out, the screen displays with the lock slider. Slide  in any direction towards the outside of the screen to unlock the screen.



Note: If you have changed the **Screen lock** option, depending on the selected option, you will have to enter a pattern, pin, or password to unlock the LEX L10.

The **Home Screen Items** table lists some of the items that may appear on the **Home** screen.

Table 5: Home Screen Items

Item	Description
Core Applications Widget	Provides shortcuts to: • Phone Dialer • Contacts • Application Launcher • Camera • Search Feature
Other Possible Widgets	Provides access to application features thru: • Calendar Widget • eMail Widget

Table continued...

Item	Description
	• Messaging Widget • Search Widget • My Apps Widget
Home Screen Overlay	Provides quick access to core functions.

The **Home** screen provides four screens for placement of widgets and shortcuts. Swipe the screen left or right to view the additional screens.

3.3.1.1 Home Screen Overlay

The **Home** screen overlay provides quick access to core functions. Each organization may have a different **Home** screen overlay. Contact your technical support for more information.

Swipe the **Home** screen up from the  icon to access the **Home** screen overlay.

3.3.2 Customizing the Home Screen

The **Home** screen contains panels that can be accessed by swiping the page to the left or right. Panels provide more space for adding widgets to the **Home** screen and can be customized by the user.

This section describes how to:

- Add Widgets
- Move Widgets
- Remove Widgets
- Configure Home Screen Settings

3.3.2.1 Adding Widgets

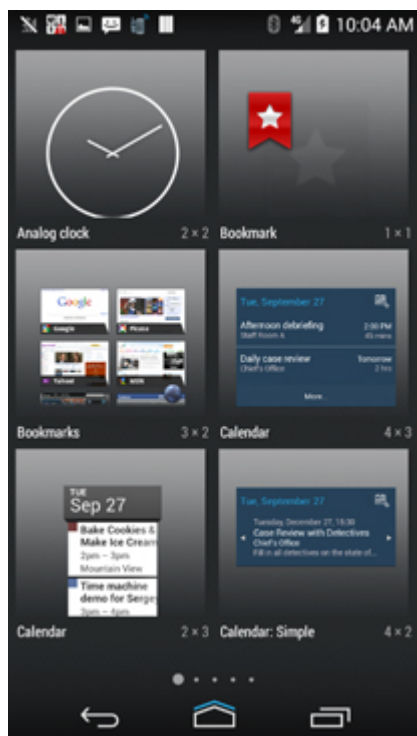
When and where to use: You want to add one or more widgets to your **Home** screen.

Procedure:

- 1 Swipe the **Home** screen left or right to locate the panel that you want to add a widget to.
- 2 Touch and hold a gray area of the panel until you see the following icons near the bottom of the screen:

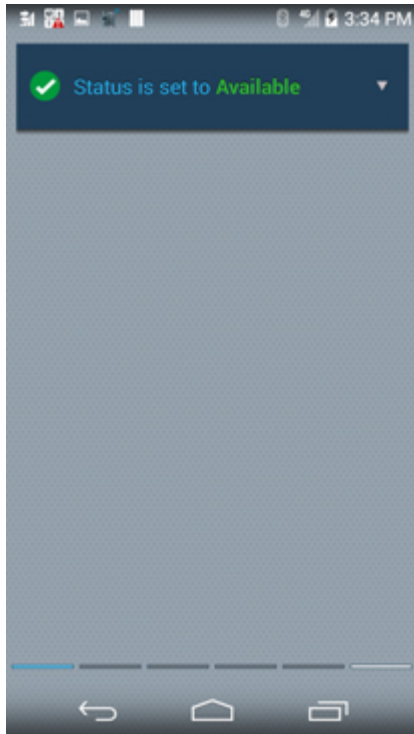


- 3 Tap the **Widgets** icon to reveal the widgets.

Figure 24: Widgets Screen

- 4 The **Widgets** screen contains five panels. Swipe the **Widgets** screen left or right to locate the widget that you want to add.
- 5 Touch and hold the widget; then, slide the widget down the screen and place it in the current panel.
If there is not enough room in the panel or you want to place the widget in a new panel, slide the widget to the right of the screen until a blank panel appears. Then, place the widget in the new panel.

Figure 25: Example of a Widget Added to New Panel



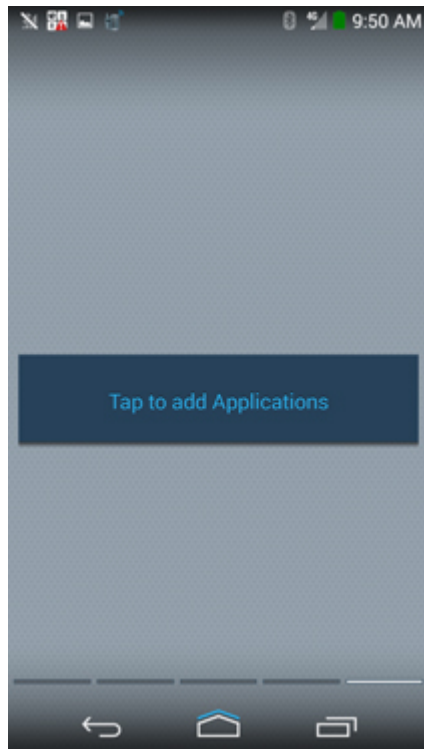
3.3.2.1.1 Adding Shortcuts to the My Apps Widget

Prerequisites: A **My Apps** widget has been added to the **Home** screen.

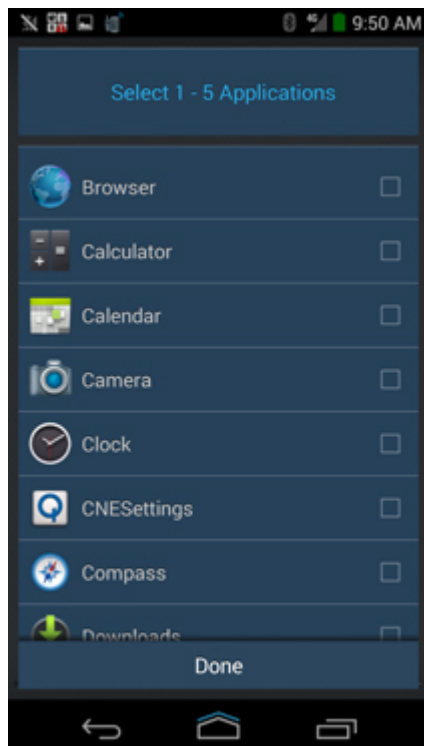
When and where to use: An empty **My Apps** needs shortcuts to be functional.

Procedure:

- 1 Add a **My Apps** widget as described under [Adding Widgets](#).
An empty **My Apps** widget displays.

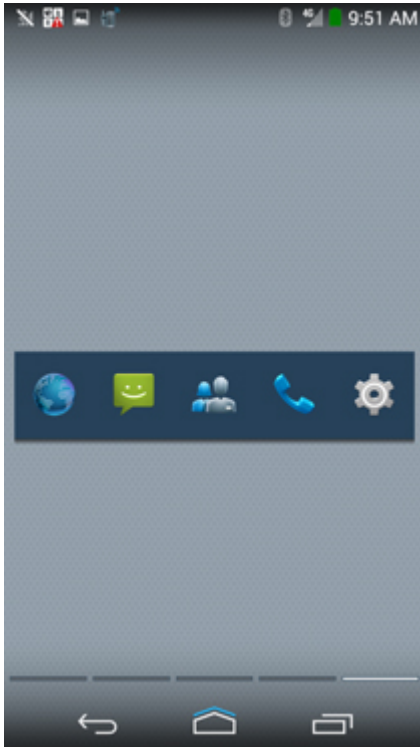
Figure 26: Empty My Apps Widget

- 2 Tap the **My Appss** widget to add shortcuts to it.
A screen with a list of shortcuts is displayed.

Figure 27: List of Shortcuts for My Apps Widgets

- 3 Select each shortcut that you want to add to the **My Apps** widget.
You may add up to five shortcuts.
- 4 Tap **Done**.
Shortcuts are added to the **My Apps** widget.

Figure 28: My Apps Widget with Shortcuts Added



3.3.2.1.2 Changing My Status

Perform this procedure to set the status of the LEX L10 user to either **Available** or **Busy**. No matter what the status is set to, calls are still received. This status is shown to other users.



Note: The **My Status** widget must be added before it is visible in the **Home** screen.

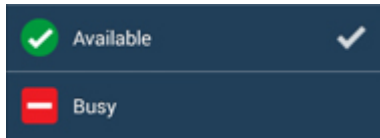
Procedure:

- 1 Tap the **My Status** dropdown menu.

Figure 29: My Status Widget



The **My Status** options menu is displayed.

Figure 30: Available/Busy Status Selection

- 2 Tap **Available** or **Busy**.
Status is immediately set to the selected state.

3.3.2.2 Moving Widgets

When and where to use: There is a need to move a widget to another location.

Procedure:

- 1 Navigate to the **Home** screen panel where the widget is located.
- 2 Touch and hold the widget; then, slide the widget to a new location.
If you want to move the widget to another panel, slide the widget left or right to that panel; then slide the widget to a location in the panel.

3.3.2.3 Removing Widgets

When and where to use: There is a need to remove a widget from a **Home** screen panel.

Procedure:

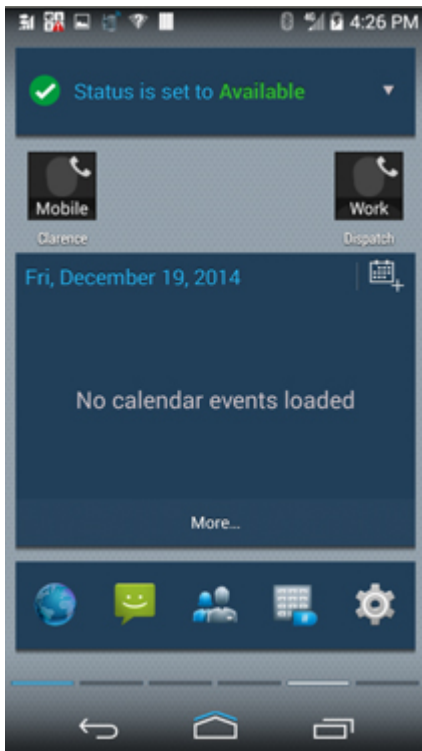
- 1 Slide the **Home** screen panel until you locate the panel that holds the widget that you want to remove.
- 2 Touch and hold the widget while sliding it down to the bottom of the panel.
X Remove appears near the bottom of the screen.
- 3 Slide the widget to **X Remove** until the widget turns red; then, release the widget.
The widget is removed from the panel.



Note: The widget is only removed from the panel. It is not deleted from the LEX L10.

3.3.2.4 Example of a Customized Home Screen Panel

Figure 31: Example of a Customized Home Screen Panel



The above figure shows a customized **Home** screen panel with the following widgets:

- **My Status**
- Two **Direct dial** widgets
- **Calendar**
- **My Apps**

3.4 Status Bar

The Status bar displays the time, notification icons (left side) and status icons (right side).

Figure 32: Status Bar



If there are more notifications than can fit in the **Status** bar, it is indicate that more notifications exist. Open the **Notifications** panel to view all notifications and status.

3.5 Notification Icons

Table 6: Notification Icons

Icon	Description
	Indicates that more notifications are available for viewing.
	Indicates that data is syncing.
	Indicates an incoming email.
	Indicates that network auto-switching is enable.
	Indicates that network auto-switching is disabled.
	Network Services notification.
	Network Services error notification.
	Indicates that location reporting service is enabled.
	Indicates that the LEX L10 is searching location data.
	Indicates an error or a warning that requires user action in the location application.
	Indicates an error or a warning that requires user action in the presence application.
	CRYPTR feature error.
	Indicates an upcoming event.
	Indicates that an open WiFi network is available.
	Radio Remote Control application is on.
	Indicates that a song is playing.
	Indicates that a problem with sign-in or sync has occurred.
	Indicates that the LEX L10 is uploading data.

Table continued...

Icon	Description
	Indicates that the microSD card is almost full.
	Indicates that the LEX L10 is downloading data when animated and download is complete when static.
	Indicates that the LEX L10 is connected via USB cable.
	Indicates that the LEX L10 is connected to or disconnected from virtual private network (VPN).
	Preparing SD card.
	Indicates that no SIM is installed.
	Indicates that USB debugging is enabled on the LEX L10.
	Indicates that the LEX L10 has received a text message.
	Indicates a missed call.
	Indicates that tethering is active for bluetooth or USB. Also used to indicate a WiFi hotspot is active.
	Screenshot captured.
	Indicates that WiFi hotspot is active.
	My Status indicates device is available.
	My Status indicates device is busy.

3.6 Status Icons

Table 7: Status Icons

Icon	Description
	Indicates that GPS is in use.
	Indicates that the LEX L10 is searching location data.
	Indicates that the Alarm is active.

Table continued...

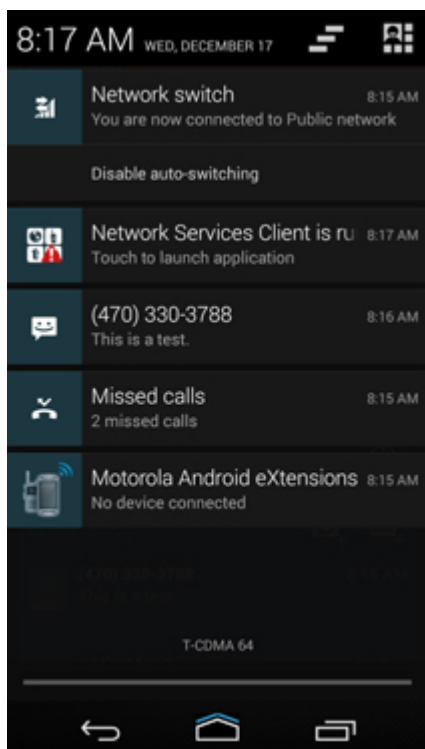
Icon	Description
	Indicates that all sounds except media and alarms are silenced and vibrate mode is active.
	Indicates that the ringer is silenced.
	Microphone is muted during a call.
	Indicates that the battery is fully charged.
	Indicates that the battery is partially drained.
	Indicates that the battery charge is low.
	Indicates that the battery charge is very low.
	Indicates that the battery is charging.
	Indicates that the Airplane Mode is active. All radios are turned off.
	Indicates that Bluetooth is on.
	LEX L10 is set to operate on Private network.
	Connected to a WiFi network.
	No WiFi signal.
	Mobile network signal strength.
	No mobile network signal.
	Connected to a 4G network.
	Connected to a 3G network.
	Connected to an HSPA network.
	Connected to an EDGE network.
	Connected to a GPRS network.
	Roaming from a network.
	No SIM card installed.

3.7 Managing Notifications

Notification icons report the arrival of new messages, calendar events, alarms, and ongoing events. When a notification occurs, an icon appears in the Status bar with a brief description. See [Notification Icons on page 60](#) for a list of possible notification icons and their description. Open the **Notifications** panel to view a list of all the notifications.

To open the **Notification** panel drag the **Status** bar down from the top of the screen.

Figure 33: Notification Panel



To respond to a notification, open the **Notifications Panel** and then tap a notification. The **Notifications Panel** closes and the subsequent activity is dependent on the notification.

To clear all notifications, open the **Notifications Panel** and then tap . All event-based notifications are removed. Ongoing notifications remain in the list.



Note: Some notifications cannot be cleared and will remain to inform you of running applications

To close the **Notification Panel**, drag the bottom of the **Notifications Panel** to the top of the screen or tap .

3.8 Working with Status

LEX L10 users work with status in two ways: setting their own status (Available or Busy) and viewing the status of their contacts.

The status displayed for **Contacts** shows the following:

- The presence status currently detected by a call system or network (offline or online status)
- The availability status currently selected by the contact (Available or Busy)

My Status

The LEX L10 user sets the value of **My Status** to **Available** or **Busy**. This status is shown in the **Contacts** and **Session Log** screens of other LEX L10 users. The **Available** status:

- Is the default “sign-on” state
- Indicates that the LEX L10 user is willing to send and receive calls

The **Busy** status indicates that the LEX L10 user is busy but the LEX L10 is still able to send and receive calls.

Status of Contacts

The status of LEX L10 contacts is shown in all of the **Contacts** screens, and **People** list. The status of a contact can be:

- Offline
- Available
- Busy

If the contact is not connected to and registered with a system server, the status shown is **Offline**.

If the contact is connected to and registered with the system server, the **My Status** value (Available or Busy) of the contact is shown.

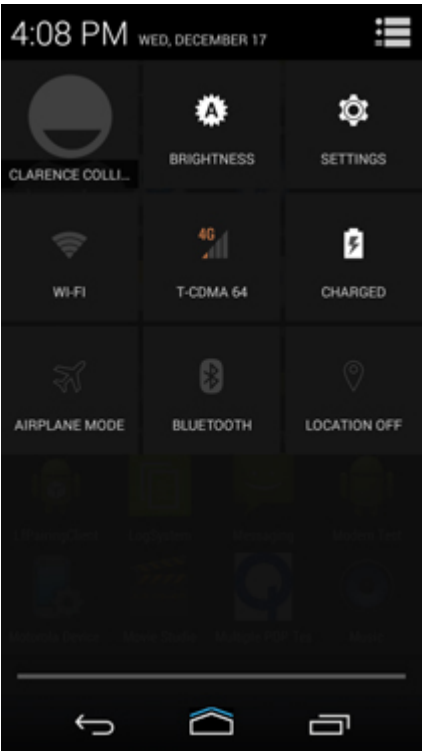
When the **Contacts** are synchronized with the **People** list, the **Contacts** are added to the regular LEX L10 contacts.

3.9 Quick Settings

The Quick Settings panel provides easy access to some frequently used settings.

Drag the **Status Bar** down from the top of the screen. The **Quick Settings** icon displays in the top right corner. Tap  to display the **Quick Settings** panel.

Figure 34: Quick Settings Panel



- Display the owner’s contact image. Tap to open the owner’s contact information.
- **Brightness** — Opens the **Brightness** setting dialog box to set the screen brightness.
- **Settings** — Opens the Settings screen.
- **WiFi** — Displays the current WiFi connection. Tap to open the **WiFi** settings screen.
- **Service** — Displays the current cellular service used; public or Private.
- **Battery Status** — Displays the current battery charge level. Tap to open the **Battery** screen.
- **Airplane Mode** — Displays the Airplane mode status. Tap to toggle Airplane mode on and off. Turn on Airplane mode to turn off all the radios.
- **Bluetooth** — Displays the current state of the Bluetooth radio. Tap to open the **Bluetooth** settings screen.
- **Location** — Displays the current state.

To close the **Quick Settings Panel**, drag the bottom of the **Quick Settings Panel** to the top of the screen or tap .

3.10 Applications

The **Apps** screen displays icons for all installed applications.

Table 8: Applications

Icon	Description
	AOSP Browser — Use to access the Internet or agency intranet.
	Calculator — Provides the basic and scientific arithmetic functions.

Table continued...

Icon	Description
	Calendar — Use to manage events and appointments. Allows synchronization with Google account calendar.
	Camera / Video Recorder — Take photos or record videos. For more information, see Camera on page 101 .
	Clock / Alarms — Use to set an alarm, stopwatch or timer.
	Device Search —
	Dialer — Use to make phone calls. See Calling on page 69 for more information.
	Downloads — lists all downloads files.
	Email — Use to send and receive email.
	File Browser — Use to view and manage files on the LEX L10.
	Gallery — Use to view photos stored on the microSD card. For more information, see Gallery on page 109 for more information.
	Messaging - Send SMS and MMS messages. See Messaging on page 97 for more information.
	Motorola Device Management —
	Movie Studio —
	Music — Access music stored on the LEX L10.
	My Status — Use to view the current availability of the user and LEX L10 device to other agency users and system.
	People — Use to manage contact information.
	Quick Action — Use to notify an emergency situation to a dispatcher or staff.
	Radio Services — Use to pair radios.
	Radio Manager Link Client — Enables connecting the LEX L10 to a remote host computer for staging, firmware installation, application installation, and application removal by technical support.
	Reader —
	Settings — Use to configure the LEX L10.
	Software Licensing — Licensing for software installed on the LEX L10.

Table continued...

Icon	Description
	Sound Recorder — Use to record audio.
	Voice Dialer — Use to place calls by speaking.
	VPN / MVPN —

3.11 Folders

Use **Folders** to organize similar applications together. Tap the folder to open and display items in the folder.

3.11.1 Creating a Folder

To create a folder, there must be at least two app icons on the **Home** screen.

Procedure:

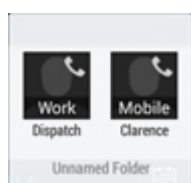
- 1 Go to the desired **Home** screen.
- 2 Tap and hold on one application icon.
- 3 Drag the icon and stack on top of another icon.
- 4 Lift and release.

3.11.2 Naming Folders

Procedure:

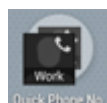
- 1 Tap the folder.

Figure 35: Opened Unnamed Folder



- 2 Tap the title area and enter a folder name using the keyboard.
- 3 Tap **Done**.
- 4 Tap anywhere on the **Home** screen to close the folder.
The folder name appears under the folder.

Figure 36: Named Folder



3.11.3 Removing a Folder

Procedure:

- 1 Tap and hold the folder until it enlarges and the device vibrates.
- 2 Drag the folder to **X Remove** until the folder turns red; then release.
The folder is removed from the screen.

Chapter

4

Calling

Make a phone call from the **Phone** application, the **People** application or other applications or widgets that display contact information.

Emergency Calling

The service provider programs one or more emergency phone numbers that you can call under any circumstances, even when the phone is locked, a SIM card is not inserted or the phone is not activated. However, the SIM card must be installed in the LEX L10 to enable preset emergency numbers stored on it.

Emergency numbers vary by country. The LEX L10 must be switched to public mode to use the emergency numbers for your country on the public SIM.

The LEX L10 pre-programmed emergency number(s) may not work in all locations, and sometimes an emergency call cannot be placed due to network, environmental, or interference issues. For additional information, contact your organization's technical support.



Important: The numbers you can call depend on whether the LEX L10 is in private mode or public mode. For example, if the LEX L10 is in private mode, you need to switch to public mode before you can call numbers that are not included in the private network. To switch modes, see [Switching Private and Public Modes](#).



Note: You can set up other emergency alert methods if your device is licensed for these options. See [Radio Remote Control on page 79](#).

Audio Modes

The device offers three audio modes for use during phone calls:

- **Handset Mode:** Switches audio to the receiver at the top front of the device, so the user can use the device as a handset. This is the default mode.
- **Speaker Mode:** Use the device as if on speaker phone.
- **Headset Mode:** Connect a Bluetooth or wired headset to automatically switch audio to the headset.

Using a Bluetooth Headset

Use a Bluetooth headset for audio communication when using an audio-enabled application. See [Bluetooth on page 132](#) for information on connecting a Bluetooth headset to the device. Set the volume appropriately before putting on the headset. When a Bluetooth headset is connected, the speakerphone is muted.

Using a Wired Headset

Use a wired headset (with 3.5 mm plug) for audio communication when using an audio-enabled application. Set the volume appropriately before putting on the headset. When a wired headset is connected, the speakerphone is muted.

Lift the headset cover and insert the headset plug.

To end a call using the wired headset, press and hold the headset button until the call ends.

Figure 37: Insert Wired Headset Plug

Adjusting Audio Volume

Use the Volume buttons to adjust the volume of the ringer when not in a call and the audio volume when in a call.



Note: Adjust the conversation phone volume during a call. Adjusting the volume while not in a call affects the ring and notification sound levels.

4.1 Making a Call Using the Dialer

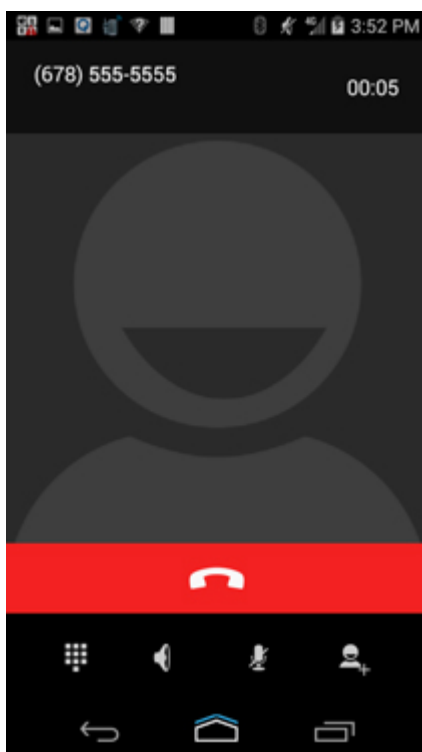
Use the dialer tab to dial phone numbers.

Procedure:

- 1 On the **Home** screen, tap .

Figure 38: Dialer Screen

- 2 Tap the  tab above the dialer.
- 3 Tap the keys to enter the phone number.
- 4 Tap  below the dialer to initiate the call.

Figure 39: Call in Progress

If...	Then...
You want to display the dialer.	Tap  .
You want to turn on the speakerphone.	Tap  .
You want to mute the call.	Tap  .
You want to add another person to the call.	Tap  .

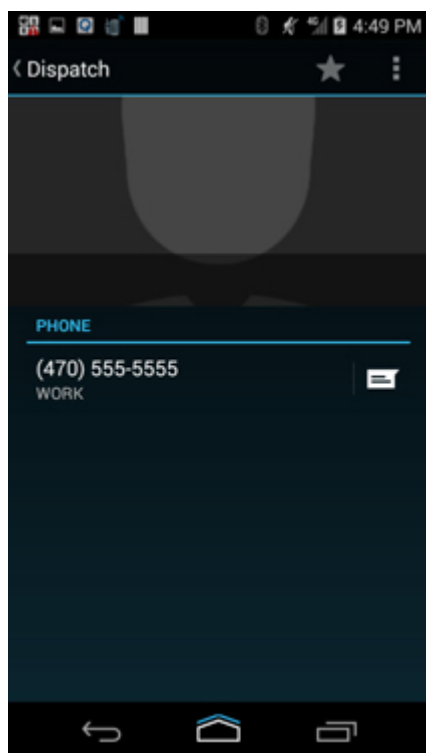
- 5 Tap  to end the call.

4.2 Making a Call Using People List Contacts

Procedure:

- 1 On the **Home** screen, tap .
- 2 Tap the  tab.
- 3 From the people list contacts, tap a phone contact or a PTT contact for making a One-to-One Private or Alert Call (see Push-To-Talk User Guide For LEX L10).

Figure 40: People List Contact



- 4 Tap the phone number next to the contact to initiate the call or press the **PTT** button for making a One-to-One Private or Alert Call.
- 5 Tap  to end the call.

4.3 Making a Call Using Call History

Call History is a list of all the calls placed, received, or missed. It provides a convenient way to redial a number, return a call, or add a number to Contacts.

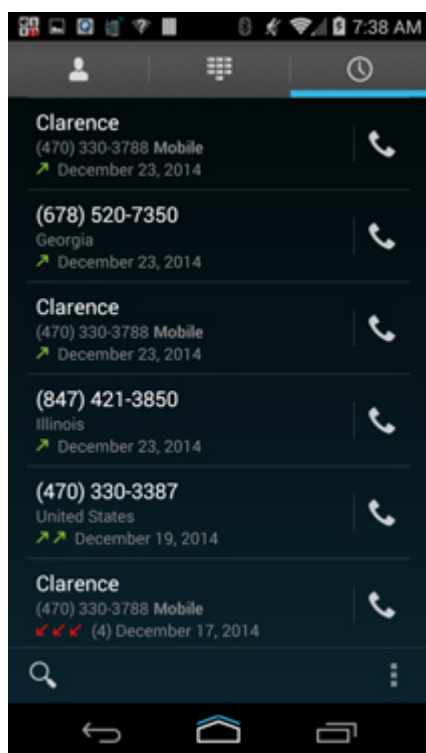
Arrow icons beside a call indicate the type of call. Multiple arrows indicate multiple calls:

-  — Missed incoming call
-  — Received incoming call
-  — Outgoing call

Procedure:

- 1 On the **Home** screen tap .
- 2 Tap the  tab.

Figure 41: Call History Tab



- 3 Tap  next to the contact to initiate the call.
- 4 Tap  to end the call.

4.4 Making a Conference Call

This procedure describes how to create a conference phone session with multiple people.

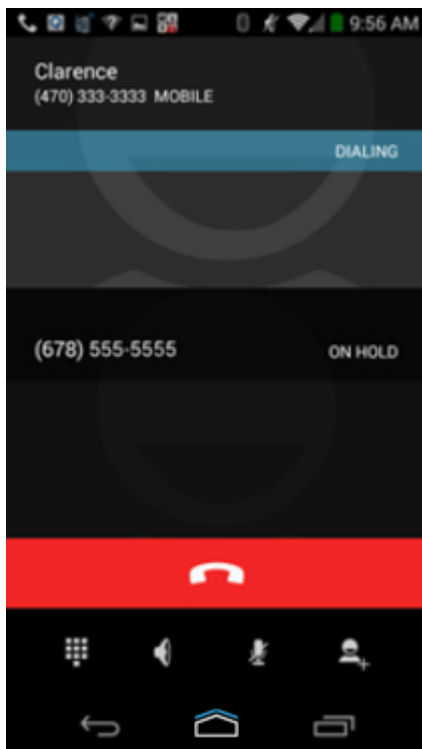


Note: Conference calling may not be supported by your service provider. Check with your technical support for conference calling availability. The total number of conference call participants may be limited by your service provider. For the maximum number of participants in a conference call, contact technical support.

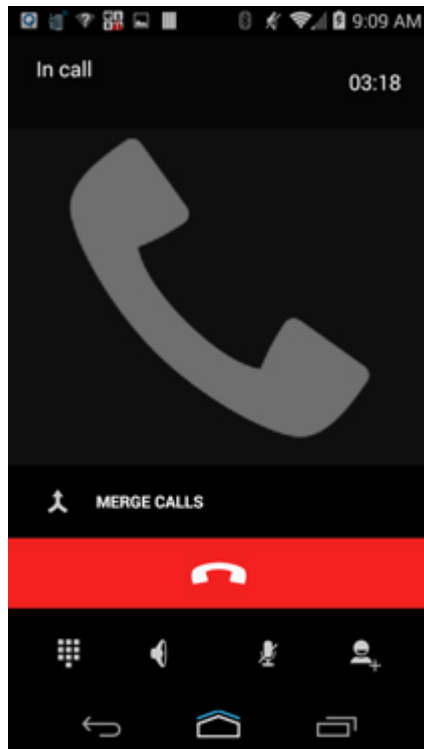
Procedure:

- 1 On the **Home** screen tap .
- 2 Tap the  tab above the dialer.
- 3 Tap the keys to enter the phone number.
- 4 Tap  below the dialer to initiate the call.
- 5 When the call connects, tap .
The first call is placed on hold.
- 6 Tap the keys to enter the second phone number.
- 7 Tap  below the dialer to initiate the call.
- 8 When the call connects, the first call is placed on hold and the second call is active.

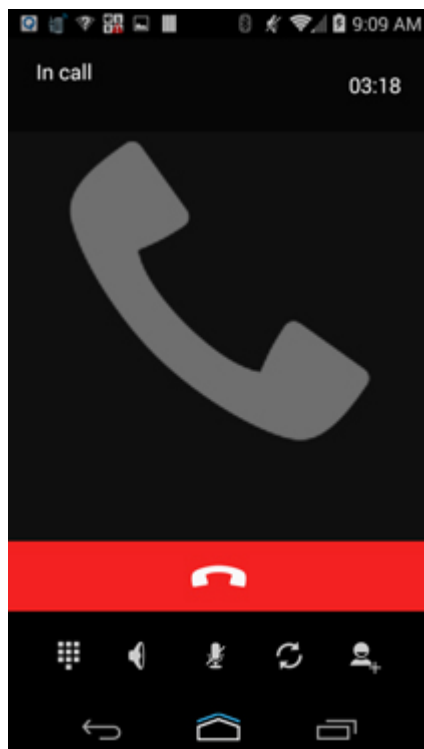
Figure 42: Two Calls



The screen quickly changes to:

Figure 43: Two Calls Connected

- 9 Tap  **MERGE CALLS** to create a conference call with three people.

Figure 44: Merged Calls

- 10 Tap  to add another call.
The conference is placed on hold.

- 11 Tap the keys to enter the second phone number.
- 12 Tap  below the dialer to initiate the call.
- 13 Tap  **MERGE CALLS** to add the third call to the conference.
- 14 Tap  to rotate between the individual calls.

Calls are rotated starting with the first call. This allows you to speak privately to one party. Tap  to rotate to the next party. When the rotation is complete, you are placed back into conference mode and all calls are active.

4.5 Answering Calls with a Bluetooth Headset

When you receive a phone call, the **Incoming Call** screen opens, displaying the caller ID and any additional information about the caller that is in the **People** application.



Note: To connect a Bluetooth headset to the LEX L10, see [Connecting to a Bluetooth Device on page 136](#).

When a call arrives, tap the **Call** button on the Bluetooth headset to answer the call.

To silence the ringer before answering the call, press the volume down button on the side of LEX L10.

To end the call press the **Call** button on the Bluetooth headset.

All incoming calls are recorded in the **Phone** application call **Logs** tab. If you miss a call, you will receive a notification.

4.6 Call Settings



Note: Not all options are available for all configurations.

Use the **Call Settings** to modify options related to the phone call feature.

- **Ringtone & Vibrate**
 - **Phone Ringtone** — Tap to select a ringtone to sound when an incoming call is received.
 - **Vibrate When Ringing** — Check to make the device vibrate when a call is received.
- **Other Call Settings**
 - **Ringtone Settings** — When using a Bluetooth headset, select the path that the ring is heard. Options: **Bluetooth** or **Speaker and Bluetooth** (default).



Note: Bluetooth headset connection is required to set this option.

- **Voicemail** — Tap to configure voicemail settings
 - + **Service** — Set the service provider or other provider for voicemail service.
 - + **Setup** — Tap to update the phone number used to access voicemail.
 - + **Sound** — Tap to select a sound when a voicemail is received.
 - + **Vibrate** — Tap to vibrate when a voicemail is received.
- **Dial pad touch tones** — Check to play a sound when a phone key is touched.

- **Quick Responses** - Tap to edit quick responses to use instead of answering a call.
- **Fixed Dialing Numbers** — Use Fixed Dialing to restrict the phone to dial only the phone number(s) or area code(s) specified in a **Fixed Dialing** list.
- **TTY mode** — Tap to set the **TTY** setting. Use an optional teletypewriter (TTY) device with the LEX L10 to send and receive calls. Plug the TTY device into the LEX L10 headset jack and set the LEX L10 to operate in one of the TTY modes.



Note: Use a TSB-121 compliant cable (provided by the TTY manufacturer) to connect the TTY device to the LEX L10.

Set the LEX L10 volume to a middle level setting for proper operation. If you experience a high number of incorrect characters, adjust the volume as needed to minimize the error rate.

For optimal performance, the LEX L10 should be at least 30 cm (12 inches) from the TTY device. Placing the LEX L10 too close to the TTY device may cause high error rates.

- + **TTY Off** (default) — TTY is off.
- + **TTY Full** — Transmit and receive TTY characters.
- + **TTY HCO** — Transmit TTY characters but receive by listening to earpiece.
- + **TTY VCO** — Receive TTY characters but transmit by speaking into microphone.
- **DTMF tones** — Set the length of the DTMF tones. Available options are : **Normal** or **Long**.
- **CDMA Call Settings:**
 - + **Voice privacy** — Enable enhanced privacy mode.
- **Internet Call Settings**
 - **SIP Accounts** — Choose to receive Internet calls for accounts added to the device, view or change SIP accounts, or add an Internet calling account.
 - **Use Internet Calling** — Use Internet calling for all calls, only for calls to Internet calling addresses (the default setting), or to ask for each call. Must be connected to a WiFi network and have added an Internet calling account to the device to use Internet calling.
 - **IMS Account** — Enable/Disable IMS Service Capability.

Chapter

5

Radio Remote Control

The **Radio Remote Control** application enables a LEX L10 user to control a P25 Land Mobile Radio (LMR) directly from the LEX L10. In this way, the P25 radio can operate when carried inside a pouch and radio voice communication is routed directly between the radio and a headset.

To communicate, the user taps and holds the **Push-to-Talk** (PTT) button on the LEX L10 screen. The button simulates the **PTT** button on the side of the radio. The user can also switch between the radio zones, select favorite channels and change the volume directly from the LEX L10 screen.



Note:

- This chapter applies to your LEX L10 only if your organization licensed this feature for your LEX L10.
- Pairing with APX models of the P25 Land Mobile Radio, requires purchasing a **Mission Critical Wireless** option (an optional Bluetooth board inside the APX radio).

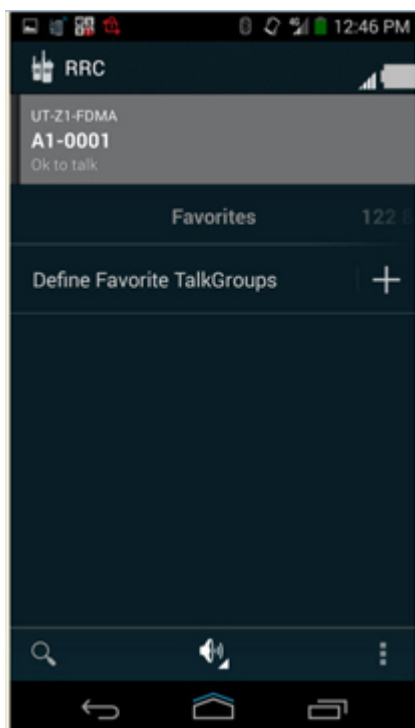
Before starting to use the P25 radio with the LEX L10, Bluetooth pairing is required. After paired with the radio, the LEX L10 initiates a secure connection with the radio.



Important: After pairing the LEX L10 with the P25 Land Mobile Radio (LMR), maintain a distance of no more than 30 feet (10 meters) between the LEX L10 and the radio. Controlling the radio and initiating an emergency alert from the LEX L10 beyond 30 feet (10 meters) may fail.

The **Radio Remote Control** application is used for:

- Push-to-Talk communication
- Switching radio zones
- Changing channels
- Setting and selecting favorite channels
- Changing radio volume
- Sending an emergency alert
- Monitoring the radio battery and signal power

Figure 45: Radio Remote Control Screen

5.1 Pairing Radio with the LEX L10

This procedure pairs a radio with a LEX L10.

Prerequisites:

- Verify that your Land Mobile Radio (LMR) includes a secure Bluetooth pairing feature. Turn on Bluetooth feature of the LEX L10 and radio. In the radio, enable the Bluetooth tones (see LMR User Guide).
- The LEX L10 is not paired with other radio.

When and where to use: Use this procedure to pair a LEX L10 with a radio.



Note: To pair the LEX L10 to a radio, ensure that the Bluetooth feature of the LEX L10 is enabled and bring the blue pairing points on each device to within 2.5 cm. Once paired, their Bluetooth link has a line-of-sight range of 30 feet (10 meters).

Procedure:

- 1 From the **Home** screen, tap .
The **Application** screen displays.
- 2 Tap .
The **Pair with a radio** screen appears.

Figure 46: Pair With a Radio Screen

- 3 Place the radio close to the LEX L10, aligning the blue pairing point on the LEX L10 with the blue pairing point on the radio.

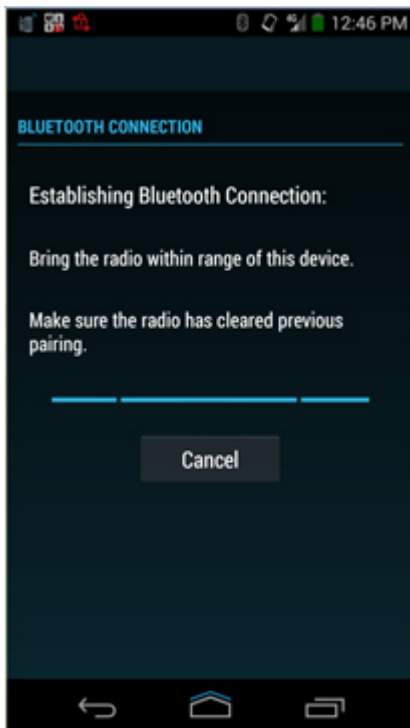
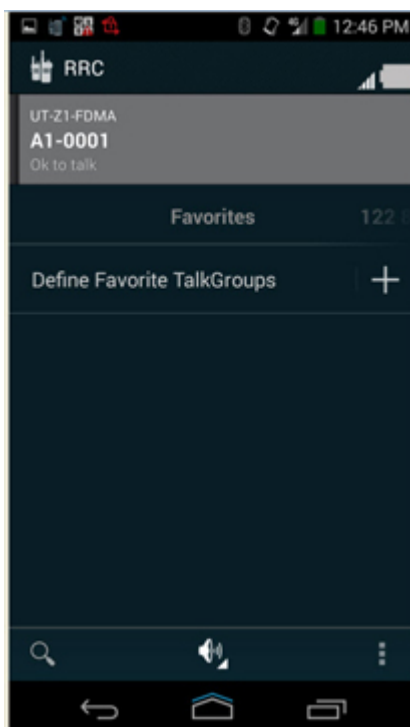


Note: The blue pairing points must be within 2.5 cm of each other for pairing to happen.

Figure 47: Blue Pairing Dots

- If the pairing process is successful, the radio sounds an incremental-pitched tone to indicate paired.
- If the pairing process fails, the radio sounds a short, low pitched tone. On the LEX L10 screen, tap Tap **Pair** to try again to resume pairing.

Once a successful pairing is established, the **Bluetooth Connection** screen is displayed for a few seconds, followed by the **Radio Remote Control** screen.

Figure 48: Bluetooth Connection Screen**Figure 49: Radio Remote Control Screen**

After pairing, the range of Bluetooth operation is 30 feet (10 meters) line-of-sight communication. That means an unobstructed path between the LEX L10 and the radio. Line-of-sight obstructions include trees, buildings, mountains, cars, and so on.

Do not leave the radio behind and expect the LEX L10 to work with a high degree of reliability when they are separated. At the fringe areas of reception, link can be broken. To correct this problem, position the LEX L10 and radio closer to each other to reestablish connection.

The LEX L10 remembers the radio and will automatically resume connection whenever the radio is on and within connection range.

5.2 Unpairing the Radio

This procedure unpairs a set of paired radio with a LEX L10.

Prerequisites: The LEX L10 is paired with the radio.

When and where to use: Use this procedure to unpair the LEX L10 from a radio.

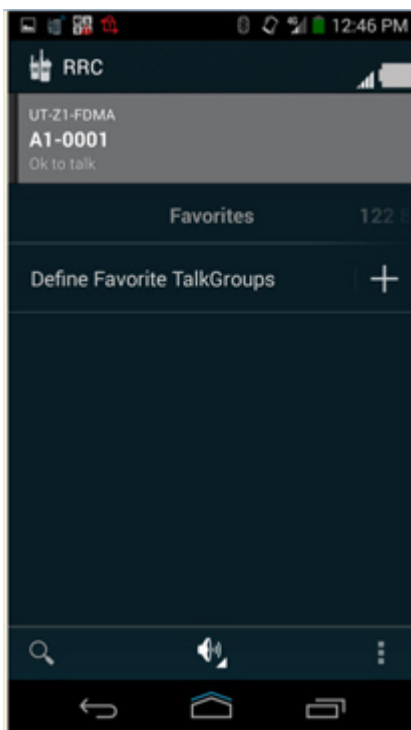
Procedure:

1 From the **Home** screen, tap .

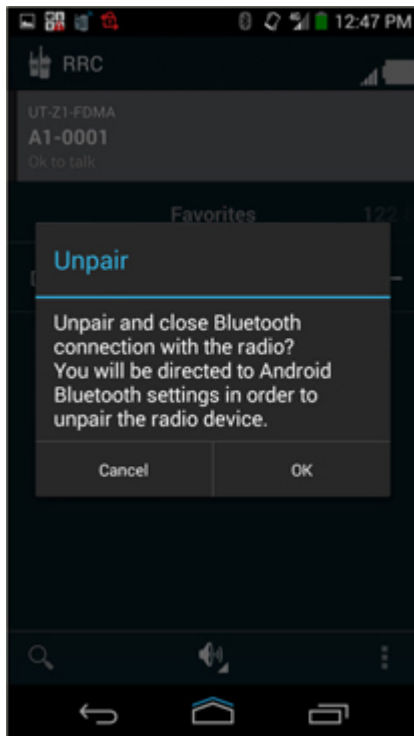
2 Tap .

The **Radio Remote Control** screen appears.

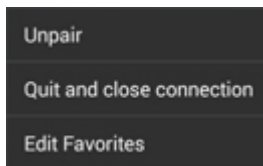
Figure 50: Radio Remote Control Screen



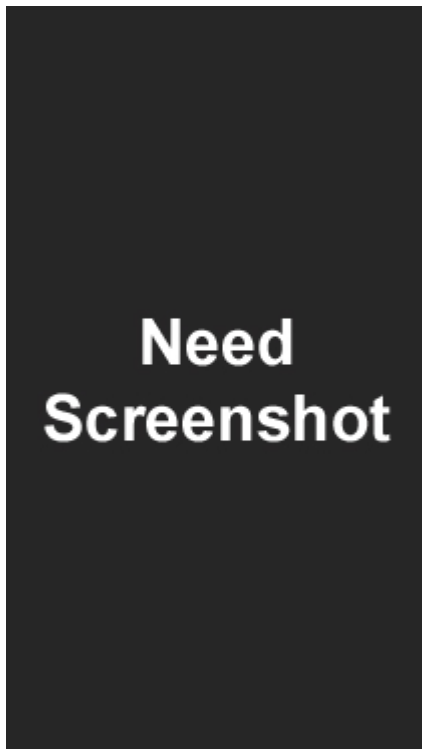
3 Tap  → **Unpair**.

Figure 51:

- 4 Tap **OK**.
- 5 Tap .
A menu displays.

Figure 52: Select Unpair

- 6 Select **Unpair**.
- 7 Tap **Yes**.
The LEX L10 emits a sound indication and the **Unpaired** screen is displayed. The LEX L10 and radio are no longer paired.

Figure 53: Unpaired Screen

5.3 Requesting an Emergency Alert

This emergency alert procedure is used to indicate a critical situation and is similar to pressing the emergency alert button on the radio. The emergency alert signal overrides any other communication over the selected channel on the radio.

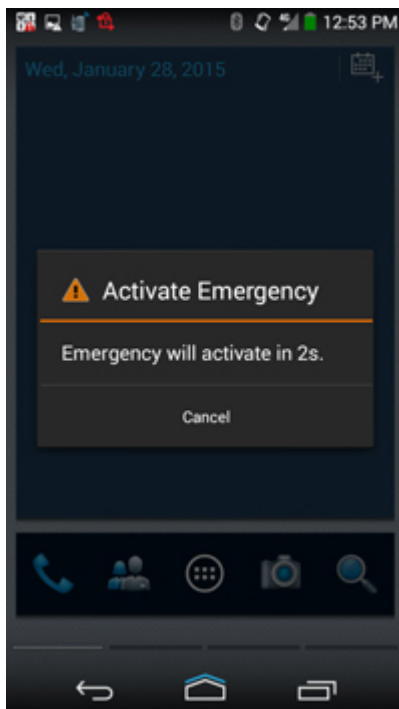
Prerequisites:

- The radio is licensed and capable of P25 emergency call
- The radio and the LEX L10 are successfully paired

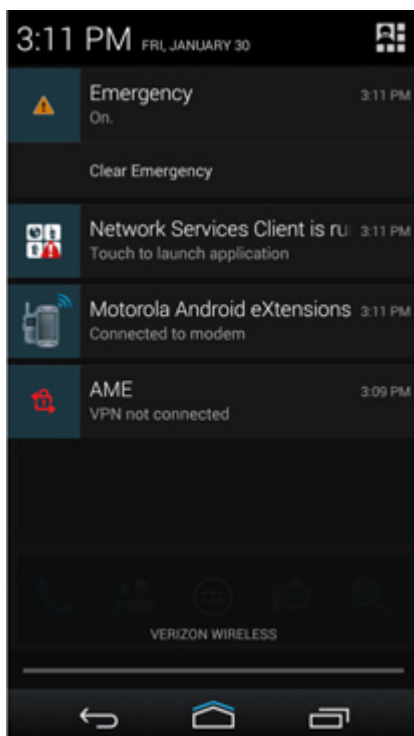
When and where to use: Use this procedure to use the LEX L10 to trigger an emergency alert on the radio.

Procedure:

- 1 Swipe up from the  icon.
- 2 Tap **Activate Emergency**.
A popup displays giving you 2 seconds to cancel the emergency alert.

Figure 54: Emergency Alert Activation Popup

- 3 swipe down from the top of the LEX L10 to view notifications.
An **Emergency** notification should be included in the list of notifications.

Figure 55: Notification Screen with Emergency Notification

- 4 Tap **Clear Emergency**.

5.4 Setting Zone and Channel

This procedure remotely selects the zones of the remote radio on the LEX L10.

Prerequisites: The radio and the LEX L10 are successfully paired.

When and where to use: Use this procedure to remotely set the zones of the remote radio on the LEX L10.

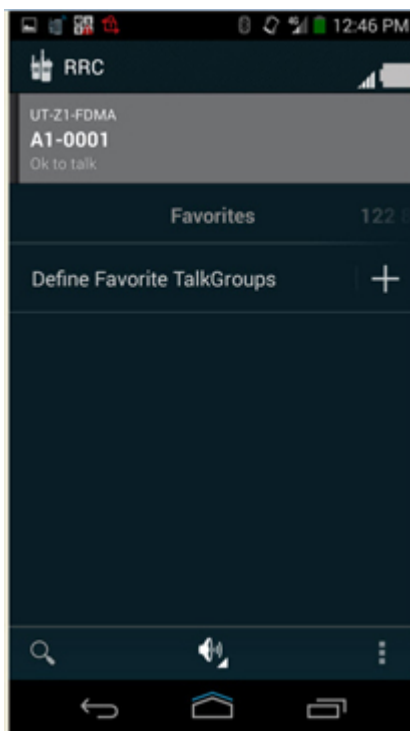
Procedure:

1 From the **Home** screen, tap .

2 Tap .

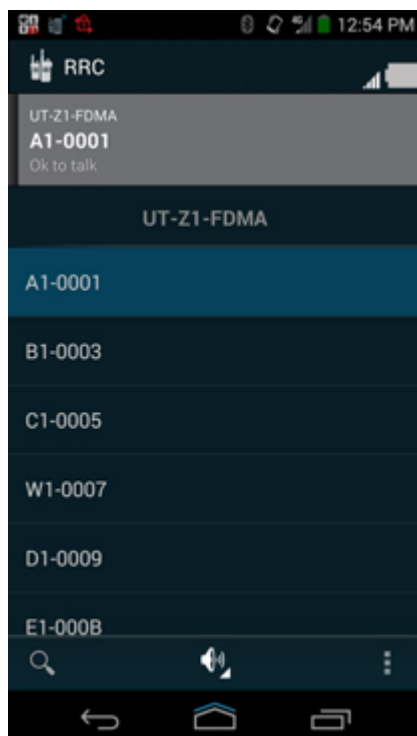
The **Radio Remote Control** dialog box displays.

Figure 56: Radio Remote Control Screen



3 Select a zone.

The **Channel Selection** screen appears, displaying a list of channels available for that zone.

Figure 57: Channel Selection Screen

- 4 Select a channel.

The **Change Channel Confirmation** screen appears if the channel was selected for the first time. Tap **Yes** to confirm. The **Radio Remote Control** screen is displayed.

5.5 Setting Radio Volume

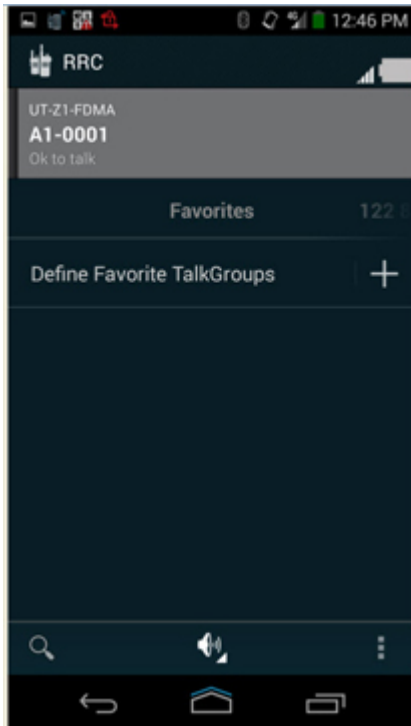
This procedure remotely selects the volume for the remote radio on the LEX L10.

Prerequisites: The radio and the LEX L10 are successfully paired.

When and where to use: Use this procedure to remotely set the volume for the remote radio on the LEX L10.

Procedure:

- 1 From the Home screen, tap
 - 2 Tap
- The **Radio Remote Control** screen appears.

Figure 58: Radio Remote Control Screen

- 3 Tap .
The radio volume slider displays.

Figure 59: Radio Volume Slider

- 4 Tap anywhere on the **Radio Volume** slider to jump to a volume or drag to change the volume between 0 to 15.

5.6 Favorite Channels

The **Favorites** screen is used to have a quick glance at all saved zones and channels. Select one to connect.

5.6.1 Viewing Favorite Channels

This procedure displays the **Radio Remote Control** favorite zones and channels on the LEX L10.

Prerequisites: The radio and the LEX L10 are successfully paired.

When and where to use: Use this procedure to view the **Radio Remote Control** favorite zones and channels on the LEX L10.

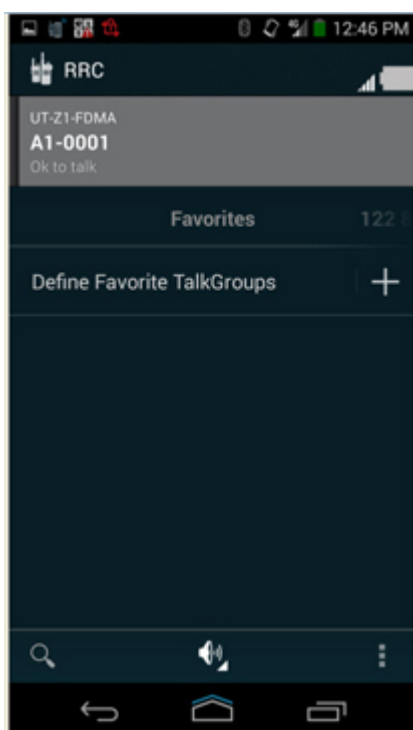
Procedure:

- 1 From the **Home** screen, tap .

2 Tap .

The **Radio Remote Control** screen appears.

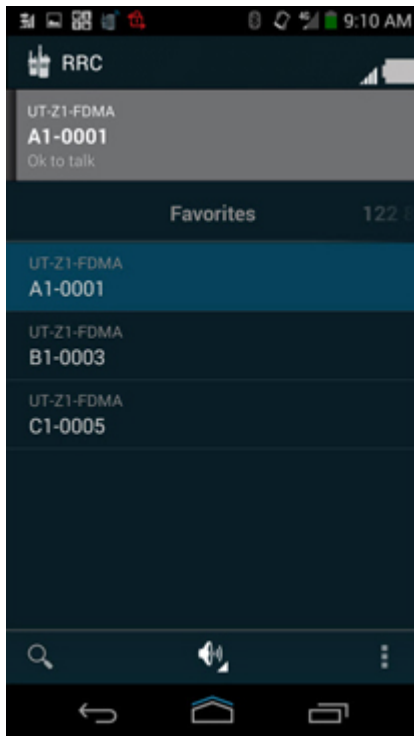
Figure 60: Radio Remote Control Screen



3 Tap .

The **Favorites** screen appears to view favorite zones and channels.

Figure 61: Radio Remote Control — Favorites Screen



5.6.2 Adding a Favorite Zone and Channel

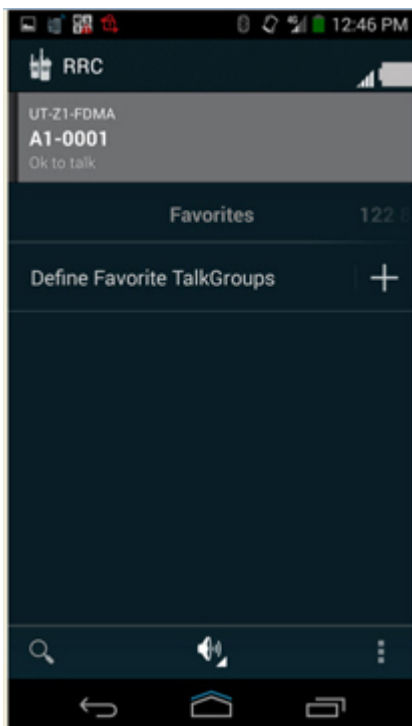
This procedure adds a Radio Remote Control favorite Zone and Channel on the LEX L10.

Prerequisites: The radio and the LEX L10 are successfully paired.

When and where to use: Use this procedure to add a Radio Remote Control favorite Zone and Channel on the LEX L10.

Procedure:

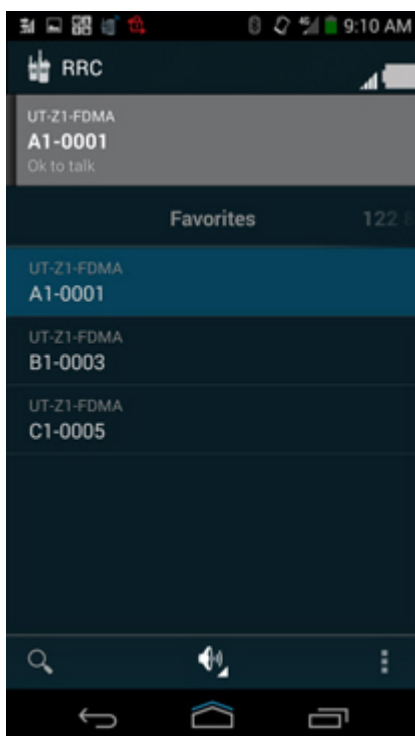
- 1 From the **Home** screen, tap .
 - 2 Tap .
- The **Radio Remote Control** screen displays.

Figure 62: Radio Remote Control Screen

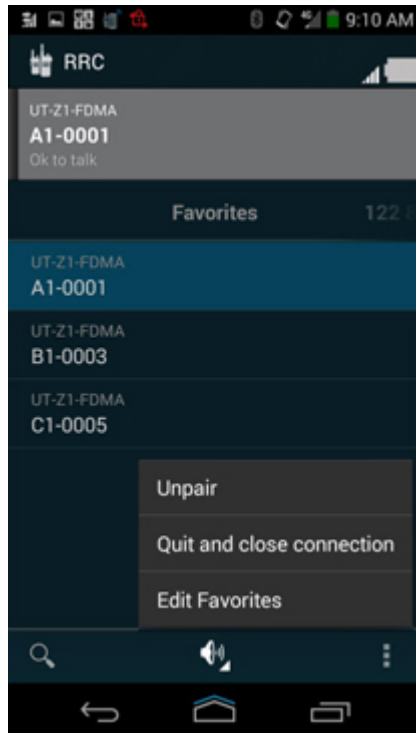
3



Tap .
The **Favorites** screen displays.

Figure 63: Favorites Screen

- 4 Tap . The **Favorites** menu displays.



- 5 Select **Edit Favorites**.
- 6 Select the Zone and Channel that you want to add to your favorites.
- 7 Tap < (top left side of screen) to return to the **Radio Remote Control** screen.

5.6.3 Removing a Favorite Channel

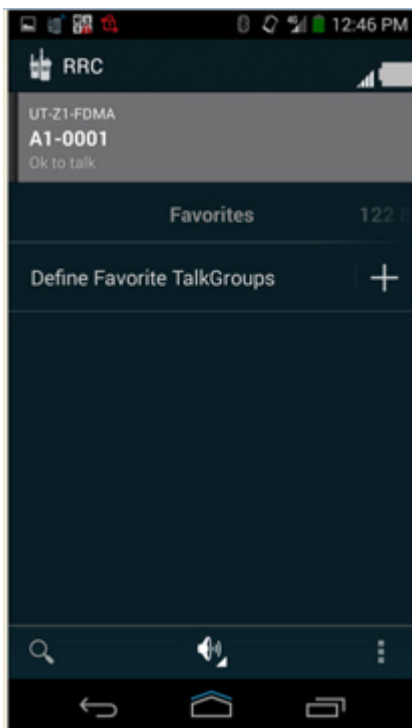
This procedure removes a **Radio Remote Control** favorite zone or channel on the LEX L10.

Prerequisites: The radio and the LEX L10 are successfully paired.

When and where to use: Use this procedure to remove a **Radio Remote Control** favorite zone or channel on the LEX L10.

Procedure:

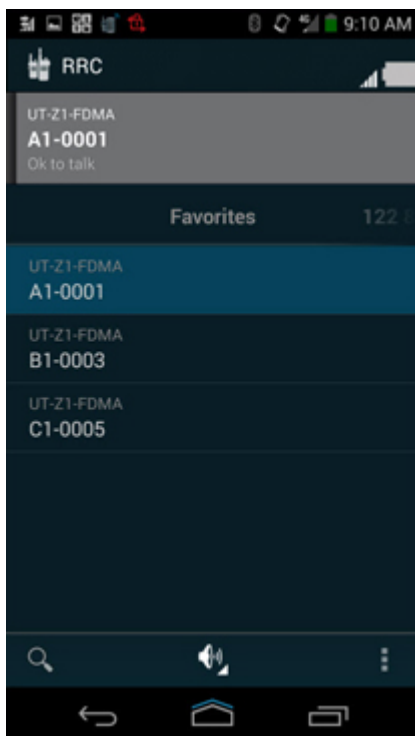
- 1 From the **Home** screen, tap .
- 2 Tap .
The **Radio Remote Control** screen appears.

Figure 64: Radio Remote Control Screen

3



Tap .
The **Favorites** screen is displayed.

Figure 65: Favorites Screen

- 4 Select **Edit Favorites**.
- 5 Tap the **x** next to the favorite channel to delete it.
- 6 Tap < (top left side of screen) to return to the **Radio Remote Control** screen.

Chapter

6

Messaging

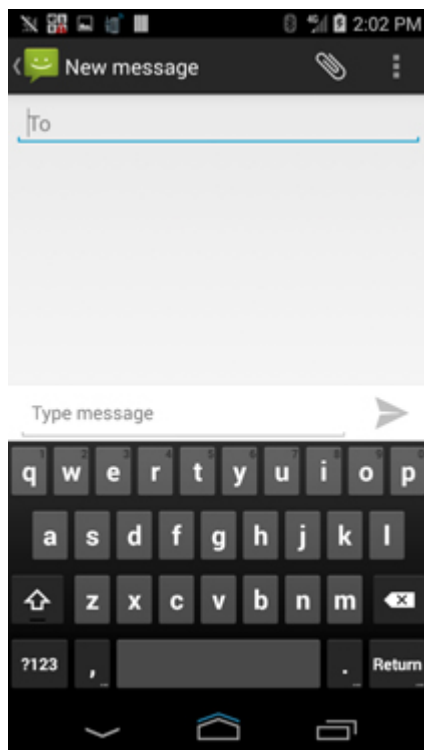
Use Messaging to send and receive SMS and MMS messages. From a **Home** or **All Apps** screen, touch .

6.1 Sending a Text Message

Procedure:

- 1 In the main **Messaging** screen, tap .
The **New Message** screen displays.

Figure 66: New Message Screen



- 2 In the **To** field, enter a name or a mobile phone number.
- 3 In the **Type** message field, enter the text message.

Messages are limited to 160 characters. When the limit is approached, a counter displays, above the **Send** control, showing how many characters are left. If the limit is reached and the user keeps typing, a new message is created, which is joined with its predecessors when received.

If the user presses the **Back** button while composing a message, it is saved as a draft in the **Messaging** screen. Tap the conversation to resume composing it.

- 4 Tap ➤ to send the message.

6.2 Sending a Multimedia Message

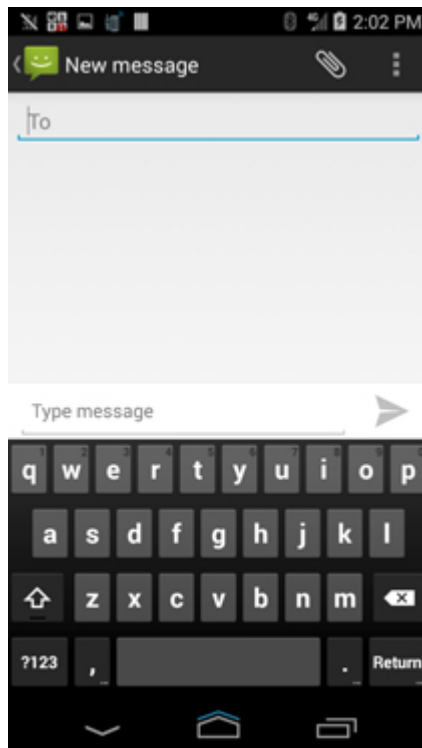


Note: Multimedia messaging is only supported when the LEX L10 is in Public network mode.

Procedure:

- 1 In the main **Messaging** screen, tap . The **New Multimedia Message** screen displays.

Figure 67: New Multimedia Message Screen



- 2 In the **To** field, enter a name or a mobile phone number.
- 3 Tap  to attach the media file of your choice:
 - **Pictures** — Select a picture to attach.
 - **Capture picture** — Camera opens to take a picture and attach it.
 - **Videos** — Select a video to attach.
 - **Capture video** — Camcorder opens to record a video and attach it to the message.
 - **Audio** — Choose a sound file to attach.
 - **Record audio** — Sound Recorder opens to record a spoken message and attach it to the message.
 - **Slideshow** — Opens a screen to assemble text, photos, videos, and recordings into a slideshow of up to 10 slides to attach to the message.
- 4 Tap ➤ to send the message.

Chapter 7

Applications

This chapter describes the applications installed on the LEX L10.

Normally, you access the applications through the **Home** screen overlay by clicking the  icon. Swipe the **Home** screen up from the  icon to reveal the  icon.

7.1 File Browser

Use the **File Browser** application to view and manage files on the device.

To open **File Browser**, tap  → .

Figure 68: File Browser Screen



The address bar indicates the current folder path. Tap the current folder path to manually enter a path and folder name.

Tap  to select multiple files/folder.

Tap  to view the internal storage root folder.

Tap  to view the microSD card root folder.

Tap  to view the previous folder or to exit the application.

Tap and hold an item to perform an operation on that item. Select one of the options from the **File Operations** menu:

- **Information** — View detailed information about the file or folder.
- **Move** — Move the file or folder to a new location.
- **Copy** — Copy the select file.
- **Delete** — Delete the selected file.
- **Rename** — Rename the select file.
- **Open as** — Open the selected file as a specific file type.
- **Share** — Share the file with other devices.

Tap  to open additional functionality:

- Tap the  key → **New Folder** to create a new folder in the current folder.
- Tap the  key → **Search** to search for a file or folder.
- Tap the  key → **Sort** to sort the list by name, by type, by size or by date.
- Tap the  key → **Refresh** to re-display the contents of the current folder.
- Tap the  key → **List View** to change the folder view from tile to list format
- Tap the  key → **Change Size** to change the size of the icons: Large, Normal or Small.
- Tap the  key → **About File Browser** to view the application version information.

7.2 People

Use the **People** application to manage contacts.

From a **Home** or **Apps** screen, tap . The **People** application, displays four tabs at the top of the screen: **Search**, **Groups**, **All contacts**, and **Favorites**. Tap the tabs to change how to view the contacts. Swipe up or down to scroll through the lists.

7.2.1 Adding People

Procedure:

- 1 In the **People** application, tap .
- 2 If there are more than one account with contacts, tap the one to use.
- 3 Type the contact's name and other information. Tap a field to start typing, and swipe down to view all categories.
- 4 Adding more than one entry for a category requires an additional step. For example:
 - To add a work address after typing a personal address, tap **Add new** for that field.
 - To open a menu with preset labels, such as **Home** or **Work** for an email address, tap the label to the right of the item of contact information.
 - To create your own label, tap **Custom** in the menu.
- 5 Tap **Done**.

7.2.2 Editing People

Procedure:

- 1 In the **People** application, tap  tab.
- 2 Tap a name to edit.
- 3 Tap .
- 4 Tap **Edit**.
- 5 Edit the contact information.
- 6 Tap **Done**.

7.2.3 Deleting People

Procedure:

- 1 In the **People** application, tap  tab.
- 2 Tap a name to delete.
- 3 Tap .
- 4 Tap **Delete**.
- 5 Tap **OK** to confirm.

7.3 Camera

This section provides information for taking photos and recording videos using the integrated digital cameras.



Note: If a microSD card is installed, the LEX L10 saves photos and videos on the microSD card. If a microSD card is not installed, the LEX L10 saves photos and videos on the internal storage.

Figure 69: Camera Photo Screen**Table 9: Camera Icons and Actions**

Call Out	Icon	Action
1	Camera Options	Tap to select Camera, Video, or Panorama mode.
2	Shutter	Tap to take a photo, a panoramic photo, or to record a video.
3	Photo Settings	Tap to select camera settings.

7.3.1 Taking Photos



Note: Camera settings are described in [Camera Settings on page 106](#).

Procedure:

- 1 To use the camera, hold the camera in portrait or landscape position and press the **Volume** button on the LEX L10.

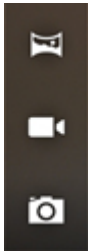


Note: The **Volume** button also serves as the **Camera** button.

- 2 Alternatively, tap .
- 3 Tap .
The **Camera** screen is displayed.

Figure 70: Camera Screen

- 4 If necessary, tap  to open the **Camera Option** bar and select **Camera** icon.

Figure 71: Camera Option Bar

- 5 Tap  for settings.
- 6 Frame the subject on screen.
- 7 To zoom in or out, press two fingers on the display and pinch or expand fingers.
The zoom controls appear on the screen.

Figure 72: Camera Zoom

8 Tap .

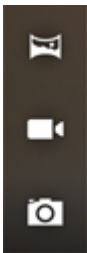
The camera brings the image into focus. When the image is in focus, the focus indicators (top and bottom of screen) turn green and the camera takes a photo.

7.3.2 Taking a Panoramic Photo

Panorama mode lets you create a single wide image by panning slowly across a scene.

Procedure:

- 1 Tap .
- 2 Tap .
- 3 Tap the **Camera Options** bar and tap .

Figure 73: Panoramic Mode

- 4 Frame one side of the scene to capture.

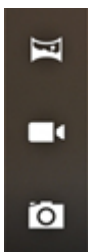
Figure 74: Panoramic Frame

- 5 Tap  and slowly start panning across the area to capture. A small white square appears inside the button the shot is in progress.
If panning too quickly, the message **Too fast** displays.
- 6 Tap  to end the shot. The panorama is displayed and a progress indicator displays while it saves the image.

7.3.3 Recording Videos

Procedure:

- 1 Tap  → .
- 2 Tap the **Camera Options** bar and tap .

Figure 75: Video Mode

- 3 To zoom in or out, press two fingers on the display and pinch or expand fingers.



Note: Video zoom works the same as camera zoom.

- 4 Point the camera and frame the scene.

- 5 Tap  to start recording.
The device starts recording the video. The video time remaining appears in the top left of the screen.
- 6 Tap  to end recording.

7.3.4 Camera Settings

When in Photo mode, photo settings are displayed on screen. Tap  to display the photo settings options.

Figure 76: Camera Settings



The available photo settings are (from left icon to right icon):

- Turn **HDR** on or off.
- Three screens of **More Options**. Settings for each option depend on the selected option. You may be required to select an item from a menu or you can select an option by tapping it.



Note: These options are similar to the camera options seen on most cameras. Set accordingly.

- First **More Options** Screen.

Figure 77: First More Options Screen

Scene mode	Auto
Store location	☐
Picture size	8M pixels
Aspect Ratio	Auto
Histogram	Disable
Select Picture Format	Jpeg
Picture quality	Normal
ZSL	☐
Countdown timer	Off
Beep during countdown	☐
Storage Position	Phone

- Second **More Options** Screen.

Figure 78: Second More Options Screen

Color effect	None
Exposure Mode	Auto
Face Detection	☐
Touch AF/AEC	☒
Selectable Zone Auto F...	Auto
Select Picture Format	Jpeg
Saturation	Level 5(D...
Contrast	Level 5(D...
Sharpness	Level 5(D...
Select Auto Exposure...	Frame Av...

- Third **More Options** Screen.

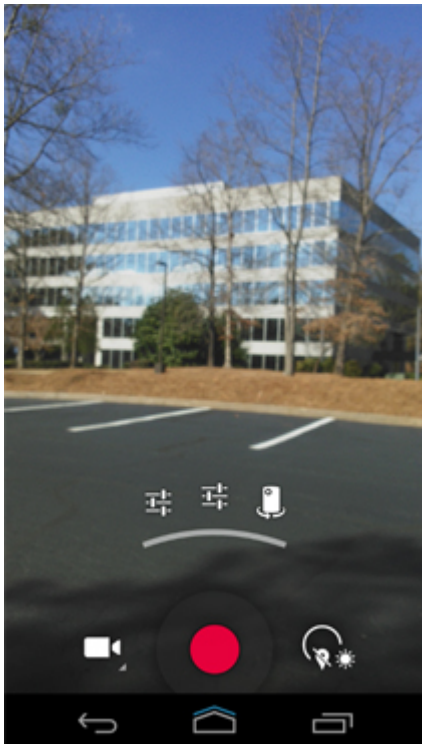
Figure 79: Third More Options Screen

Anti Banding	Off
Frames Per Second	30
Select ISO	Auto
Wavelet Denoise Mode	☐
Exposure	0
White balance	Auto
Flash mode	Off
Focus mode	Auto
Redeye Reduction	Disable
AE-Bracket	☐
Time stamp	☐

- Switch from front to rear camera or from rear to front camera.

7.3.5 Video Settings

When in **Video** mode, video settings are displayed on screen. Tap  to display the video settings options.

Figure 80: Video Settings

The available video settings are (from left icon to right icon):

- Two screens of **More Options**. Settings for each option depend on the selected option. You may be required to select an item from a menu or you just select an option by clicking on it.



Note: These options are similar to the video options seen on most cameras. You should set accordingly.

- First **More Options** Screen.

Figure 81: First More Options Video Screen

DIS	☐
Time lapse	Off
Anti Banding	Off
Video quality	HD 720p
Video Encoder	H264
Audio Encoder	AAC
Video duration	10 minutes
Scene Mode	Video Auto
Store location	☐
Storage Position	Phone

- Second **More Options** Screen.

Figure 82: Second More Options Video Screen

Color effect	None
White balance	Auto
Flash mode	☐
Exposure	0
Time stamp	☐

- Switch from front to rear video or from rear to front video.

7.4 Gallery



Note: The device supports the following image formats: JPEG, GIF, PNG, and BMP.

Use the **Gallery** to:

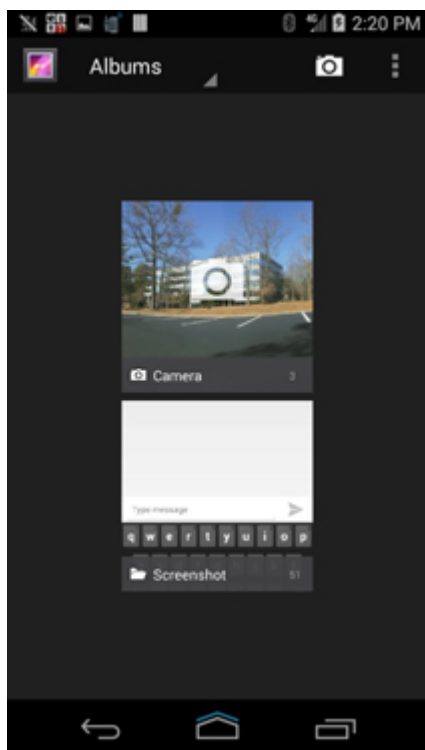
- View photos
- Play videos
- Perform basic editing of photos
- Set photos as wallpaper

- Set photos as a contact photo
- Share photos and videos

To open the **Gallery** application, tap  → .

The **Gallery** presents all photos and videos stored on the microSD card and internal memory.

Figure 83: Gallery — Albums

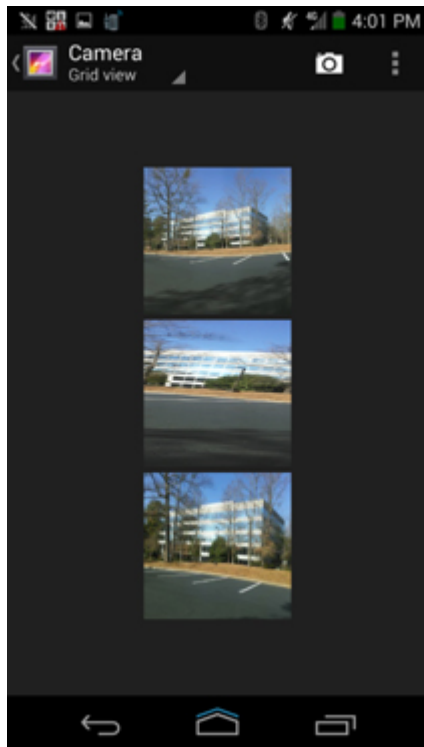


- Tap an album to open it and view its contents. The photos and videos in the album are displayed in chronological order.
- Tap a photo or video in an album to view it.
- Tap  icon (top left corner) to return to the main **Gallery** screen.
- Tap  to return to the main **Gallery** screen.

7.4.1 Working with Albums

Albums are groups of images and videos in folders.

Tap an album to open it. The photos and videos are listed in a chronologically ordered grid. The name of the album displays at the top of the screen.

Figure 84: Photos/Videos Inside an Album

Swipe left or right to scroll images across the screen.

7.4.1.1 Sharing an Album

Procedure:

- 1 Tap .
- 2 Tap .
- 3 Tap and hold an album until it highlights.
- 4 Tap other albums as required.
- 5 Tap .
Share applications are displayed.
- 6 Select the application that you want to use.
- 7 Follow the instructions within the selected application.

7.4.1.2 Getting Album Information

Procedure:

- 1 Tap .
- 2 Tap .
- 3 Tap and hold an album until it highlights.
- 4 Tap .
- 5 Tap **Details**.

7.4.1.3 Deleting an Album

Procedure:

- 1 Tap .
- 2 Tap .
- 3 Tap and hold an album until it highlights.
- 4 Tap .
- 5 Tap **Delete**.
- 6 Tap **OK** to delete the album.

7.4.2 Working with Photos

Use **Gallery** to view photos on the microSD card and edit and share photos.

7.4.2.1 Viewing and Browsing Photos

Procedure:

- 1 Tap .
- 2 Tap .
- 3 Tap an album to open it.
- 4 Tap a photo.

Figure 85: Photo Example



- 5 Swipe left or right to view the next or previous photo in the album.

- 6 Turn the LEX L10 to view the photo in upright (portrait) or sideways (landscape) orientation. The photo is displayed (but not saved) in the new orientation.
- 7 Tap the photo to view the controls.
- 8 Double-tap the screen to zoom in or pinch two fingers together or spread them apart to zoom in or out.
- 9 Drag the photo to view parts that are not in view.

7.4.2.2 Rotating a Photo

Procedure:

- 1 Tap a photo to view the controls.

- 2 Tap .

- 3 Tap .

- 4 Tap .

The photo rotates 90° clockwise. Each tap rotates the photo another 90°. The photo is automatically saved with the new orientation.

7.4.2.3 Cropping a Photo

Procedure:

- 1 In the **Gallery**, tap a photo to view the controls.

- 2 Tap .

- 3 Tap .

- 4 Tap .

The cropping grid displays.

Figure 86: Cropping Grid

- 5 Adjust the endpoints to select the portion of the photo to crop.
- 6 Tap **CROP** to save a copy of the cropped photo.
The original version is retained.

7.4.2.4 Setting a Photo as a Contact Icon

Procedure:

- 1 Tap .
- 2 Tap .
- 3 Tap an album to open it.
- 4 Tap the photo to open it.
- 5 Tap .
- 6 Tap **Set picture as**.
- 7 Select a contact.
- 8 Crop the photo accordingly as described in [Cropping a Photo on page 113](#).
- 9 Tap **SAVE**.

7.4.2.5 Sharing a Photo

Procedure:

- 1 Tap .
- 2 Tap .

- 3 Tap an album to open it.
- 4 Tap a photo to open it.
- 5 Tap .
- 6 Tap the application to use for sharing the selected photo (for example **Bluetooth**).

7.4.2.6 Deleting a Photo

Procedure:

- 1 Tap .
- 2 Tap .
- 3 Tap an album to open it.
- 4 Tap a photo to open it.
- 5 Tap .
- 6 Tap **Delete**.
- 7 Tap **OK** to delete the photo.

7.4.3 Working with Videos

Use the **Gallery** to view videos on the microSD card and share videos.

7.4.3.1 Watching a Video

Prerequisites: OPTIONAL TAG: insert pre requisites here - or delete this tag

When and where to use: OPTIONAL TAG: insert context here - or delete this tag

Procedure:

Type step command here

OPTIONAL TAG: Type additional step information here e.g. notes - or delete this tag

OPTIONAL TAG: Type task result here - or delete this tag

Postrequisites: OPTIONAL TAG: insert post requisites here - or delete this tag

7.4.3.2 Sharing a Video

Procedure:

- 1 Tap .
- 2 Tap .
- 3 Tap an album to open it.
- 4 Tap a video to open it.
- 5 Tap .
- The **Share** menu appears.
- 6 Tap the application to use to share the selected video.
- The selected application opens with the video attached to a new message.

7.4.3.3 Deleting a Video

Procedure:

- 1 Tap .
- 2 Tap .
- 3 Tap an album to open it.
- 4 Tap a video to open it.
- 5 Tap .
- 6 Tap **Delete**.
- 7 Tap **OK**.

7.5 Sound Recorder

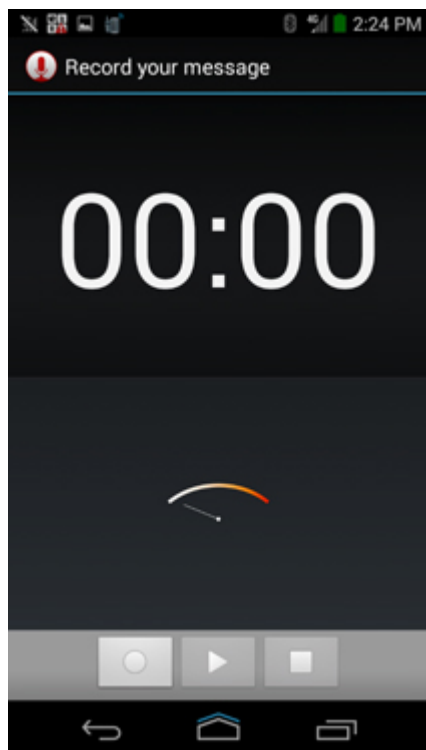
Use **Sound Recorder** to record audio messages.

Recordings are saved on the microSD card (if installed) or the Internal Storage and available in the **Music** application playlist titled **My Recordings**.

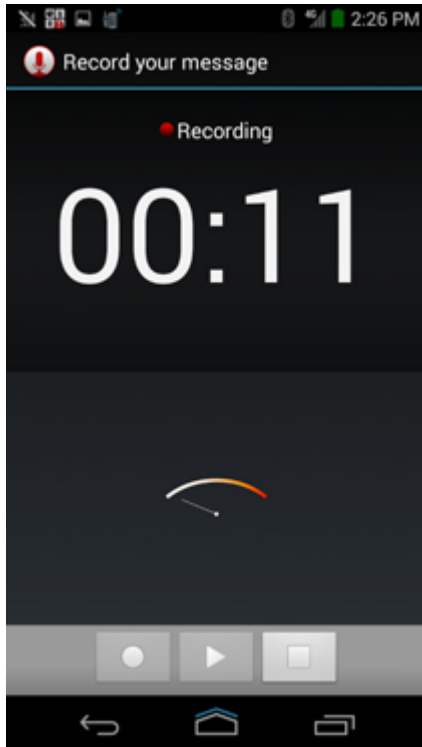
The recording process is done in four stages.

- 1 Tap  to start a recording.

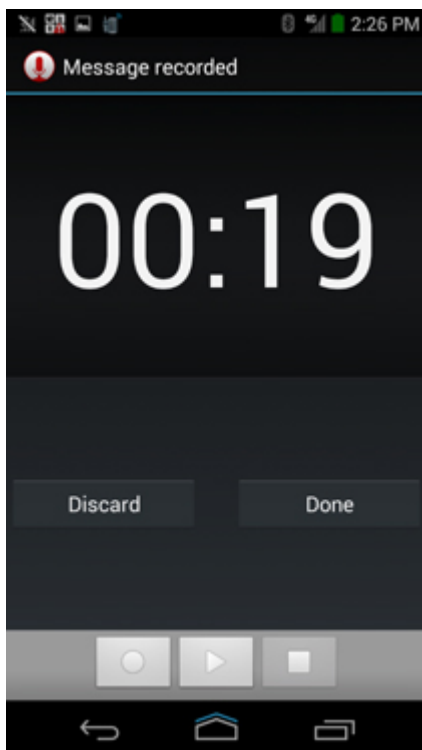
Figure 87: Start Recording



- 2 Record your message.

Figure 88: Record Your Message

- 3 Tap  to stop recording.
- 4 Tap **Done** to save the recording.

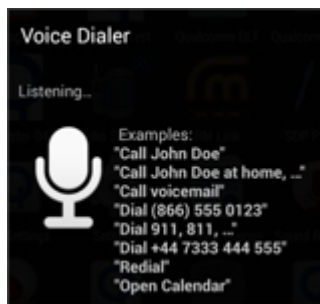
Figure 89: Finish Recording

7.6 Voice Dialer

Voice Dialer is a speech dialog system that provides natural human interface for users to communicate seamlessly with the device. Users can make phone calls, look up contact information, launch programs or check calendars.

To initiate **Voice Dialer**, tap **Voice Dialer** or press the call button on a Bluetooth headset.

Figure 90: Voice Dialer Window



Say one of the following commands:

- Call
- Dial
- Redial
- Open

7.6.1 Calling a Person by Name

Procedure:

- 1 Launch **Voice Dialer**.
- 2 Say the name of the person that you want to call (for example, John Doe).
- 3 In the **Voice Dialer** dialog box, tap **Call John Doe**.
The call is initiated.

7.6.2 Redialing a Previous Call

Procedure:

- 1 Launch **Voice Dialer**.
- 2 Say Redial.
- 3 In the **Voice Dialer** dialog box, tap **Redial**.
The call is initiated.

7.6.3 Dialing by Number

Procedure:

- 1 Launch **Voice Dialer**.
- 2 Say **Dial [phone number]**.
- 3 In the **Voice Dialer** dialog box, tap the number that displays.
The call is initiated.

7.6.4 Opening an Application

Procedure:

- 1** Launch **Voice Dialer**.
- 2** Say **Open [application name]**.
- 3** In the **Voice Dialer** dialog box, tap the application name.
The application opens.

Chapter

8

Wireless

This section provides information on the wireless features:

- Wireless Wide Area Network (WWAN)
- Wireless Local Area Network (WLAN)
- Bluetooth

8.1 Wireless Wide Area Networks

Use Wireless Wide Area Networks (WWANs) to access data over a cellular network. This section provides information on:

- Setting the preferred network Public / Private
- Sharing a data connection
- Enabling / Disabling data roaming
- Monitoring data usage
- Limiting connections to 2G, 3G, 4G networks
- Editing Access Point Names (APNs)
- Adding Virtual Private Network VPN
- Cellular broadcasts

8.1.1 Sharing the Mobile Data Connection

The **Tethering & portable hotspot** settings allow you to share your data connection. You can share the LEX L10 mobile data connection with a single computer via USB tethering or Bluetooth tethering. You can also share the data connection with up to eight devices at once, by turning it into a portable WiFi hotspot. While the LEX L10 is sharing its data connection, an icon appears at the top of the screen and a corresponding message appears in the notification list.

8.1.1.1 USB Tethering



Note: USB tethering is not supported on computers running Mac OS. If your computer is running Windows 7 or a recent version of Linux (such as Ubuntu), follow these instructions without any special preparation. If running a version of Windows that precedes Windows 7, or some other operating system, you may need to prepare the computer to establish a network connection via USB.



Note: After connecting the LEX L10 to a computer using USB tethering, the computer disconnects from the network connection, for a short time, and does not have access to the Internet (the LEX L10 becomes the primary network adapter).

Procedure:

- 1 Connect the LEX L10 to a host computer with the USB cable.

Figure 91: USB Cable Connection to Host Computer

A USB icon  appears at the top of the screen, and the notification **Connected as a media device** appears briefly at the top of the screen.

2 Tap .

3 Tap .

4 Tap **More ...**.

5 Tap **Tethering & portable hotspot**.

6 Check **USB tethering**.

The host computer is now sharing the LEX L10 data connection.

Postrequisites: To stop sharing the data connection, uncheck USB tethering or disconnect the USB cable.

8.1.1.2 Bluetooth Tethering

Use Bluetooth tethering to share the data connection with a host computer.

Prerequisites: Configure the host computer to obtain its network connection using Bluetooth. For more information, see the host computer's documentation.

Procedure:

1 Pair the LEX L10 with the host computer.

2 Tap .

3 Tap .

4 Tap **More ...**.

5 Tap **Tethering & portable hotspot**.

6 Check **Bluetooth tethering**.

The host computer is now sharing the LEX L10 data connection.

Postrequisites: To stop sharing the data connection, uncheck **Bluetooth tethering**.

8.1.1.3 Portable WiFi Hotspot

Prerequisites: Configure the **WiFi Hotspot** settings.

Procedure:

- 1 Tap .
- 2 Tap .
- 3 Tap **More ...**.
- 4 Tap **Tethering & portable hotspot**.
- 5 Check **Portable WiFi hotspot**.

After a moment, the LEX L10 starts broadcasting its WiFi network name (SSID), so you can connect to it with up to eight computers or other devices.

Postrequisites: To stop sharing the data connection, uncheck **Portable WiFi hotspot**.

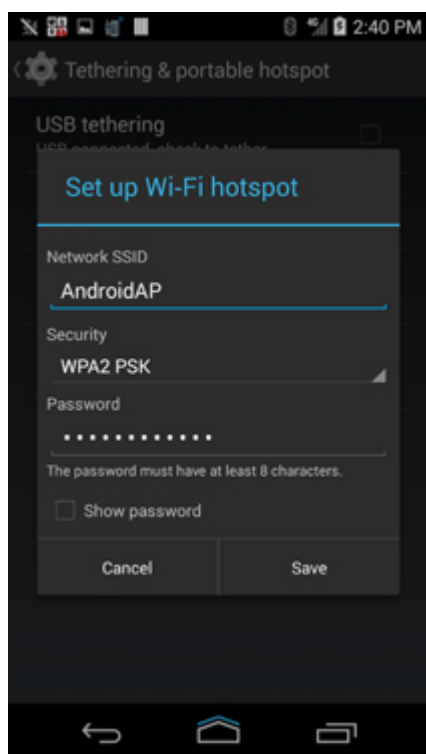
8.1.1.3.1 Configuring the WiFi Hotspot

Procedure:

- 1 Tap .
- 2 Tap .
- 3 Tap **More ...**.
- 4 Tap **Tethering & portable hotspot**.
- 5 Tap **Set up WiFi hotspot**.

The **Set up WiFi hotspot** screen displays.

Figure 92: Set up WiFi Hotspot Dialog Box



- 6 In the **Network SSID** text field, edit the network name.
- 7 Tap the **Security** option and select a security method from the drop-down list.
 - **Open**

- **WPA2 PSK.**

8 In the **Password** text field, enter a password.



Note: If **Open** is selected in the **Security** option, a password is not required.

9 Tap **Save**.

8.1.2 Data Usage

Data usage refers to the amount of data uploaded or downloaded by the LEX L10 during a given period. Depending on the wireless plan, you may be charged additional fees when your data usage exceeds your plan's limit. To monitor your data usage, go to  → **Data usage**.



Caution: The usage displayed on the data usage settings screen is measured by your device. Your carrier's data usage accounting may differ. Usage in excess of your carrier plan's data limits can result in steep overage charges. The feature described here can help you track your usage, but is not guaranteed to prevent additional charges.

Data usage settings allow you to:

- Set the data usage level at which you' will receive a warning.
- Set a data usage limit.
- View or restrict data usage by app.
- Identify mobile hotspots and restrict background downloads that may result in extra charges.

By default, when you open the data usage settings screen you see the settings for mobile data: that is, the data network or networks provided by your carrier.

Just below the on-off switch, note the data usage cycle. Tap it to choose a different cycle. This date range is the period of time for which the graph displays data usage.

The vertical white lines on the graph show a period of time within the data usage cycle. This range determines the usage amount displayed just below the graph. Drag lines to change the period.

8.1.2.1 Setting Data Usage Warning

When and where to use: Use this procedure to set data usage warning:

Procedure:

- 1 Tap .
- 2 Tap .
- 3 Tap **Data usage**.
- 4 Check **Set mobile data limit**.
- 5 Drag the red line up/down to the level where you want to limit.
- 6 Drag the orange line up/down to the level where you want to receive a warning. When your data usage reaches this level, you' will receive a notification.

8.1.2.2 Setting Auto-Sync

You can also conserve data usage by syncing your apps manually, only when you need the data, rather than relying on auto-sync.

When and where to use: Use this procedure to set Auto-Sync.

Procedure:

To turn auto-sync off or on, tap  → **Auto-sync data**.

8.1.3 Disabling Data When Roaming

To prevent the LEX L10 from transmitting data over other carriers' mobile networks when leaving an area that is covered by the carrier's networks. This is useful for controlling expenses if the service plan does not include data roaming.

Procedure:

- 1 Tap .
- 2 Tap .
- 3 Tap **More...**.
- 4 Tap **Mobile networks**.
- 5 Un-check **Data roaming**.
- 6 Tap .

8.1.4 Limiting Data Connection to a Network



Note: This feature is only available on some networks. Check with service provider.

You can limit the device Private or Public services or extend the battery life by limiting the data connections to 2G networks (GPRS or EDGE). For example, when connected to a 2G network, the user may want to postpone activities that transmit a lot of data, such as sending, uploading, or downloading pictures or video, until they are connected to a faster mobile or other wireless network.

Procedure:

- 1 Tap .
- 2 Tap .
- 3 Tap **More ...**.
- 4 Tap **Mobile networks**.
- 5 Tap **Network Mode**.
- 6 Tap **2G only** or **3G only** or **4G only** or let the LEX L10 select automatically by touching **2G/3G/4G auto**.
- 7 Tap .

8.1.5 Editing the Access Point Name



Note: Many service provider Access Point Name (APN) data are pre-configured in the LEX L10.

When network information needs to change, the user can edit the APN information.

Procedure:

- 1 Tap .
- 2 Tap .
- 3 Tap **More ...**.
- 4 Tap **Mobile networks**.
- 5 Tap **Access Point Names**.
- 6 Tap .
- 7 When finished, tap .
- 8 Tap **Save**.
- 9 Tap the radio button next to the new APN name to start using it.
- 10 Tap .

8.1.6 Adding a Virtual Private Network (VPN)

A virtual private network (VPN) extends a private network across a public network. VPN enables the LEX L10 to communicate data across a public network while benefiting from the functionality and security of the private network. When connected by VPN, the LEX L10 establishes a virtual point-to-point connection through a dedicated virtual tunneling protocols or data encryption. The LEX L10 enables connection to Basic VPN to communicate through any VPN and to Motorola Solutions Mobile VPN (MVPN) to communicate through Motorola Solutions mobile VPN. This section describes adding a basic VPN. Motorola Mobile VPN is added and configured by your technical support and requires license certification for use.

When and where to use: Use this procedure to add a virtual private network to the LEX L10 (not including the Motorola Mobile VPN).

Procedure:

- 1 Tap .
- 2 Tap .
- 3 Tap **More...**.
- 4 Tap **VPN**.
- 5 Tap **Basic VPN**.
- 6 Tap + to add VPN profile.
- 7 Enter and check:
 - Name
 - Type
 - Server Address
 - If required, check **PPP encryption (MPPE)**
 - If required, check **Show advanced options** to enter:
 - DNS servers
 - DNS search domains
 - Forwarding routs
- 8 Tap **Save**.

Connection to VPN is indicated by  on the status bar and the **Choose Certification** screen is displayed.

- 9 Check **My Keychain** and tap **Allow**.
- 10 Tap .

8.1.7 Cell Broadcasts

Cell Broadcasts allows emergency alert messages to be broadcast simultaneously from a service provider to multiple users in within a designated geographical area. Broadcasts are often used for weather updates, regional events, traffic conditions and other services.

When and where to use: Use this procedure to enable emergency alert messages by cell broadcasts on the LEX L10.

Procedure:

- 1 Tap .
- 2 Tap .
- 3 Tap **More...** .
- 4 Tap **Cell broadcasts**.
- 5 Check the emergency alert types you want to receive.
- 6 Tap .

8.2 Wireless Local Area Networks

Wireless local area networks (WLANs) allow the LEX L10 to communicate wirelessly inside a building. Before using the LEX L10 on a WLAN, the facility must be set up with the required hardware to run the WLAN (sometimes known as infrastructure). The infrastructure and the LEX L10 must both be properly configured to enable this communication.

See the documentation provided with the infrastructure (access points (APs), access ports, switches, Radius servers, etc.) for instructions on how to set up the infrastructure.

Once the infrastructure is set up to enforce the chosen WLAN security scheme, use the **Wireless & networks settings** to configure the LEX L10 to match the security scheme.

The LEX L10 supports the following WLAN security options:

- Open
- Wireless Equivalent Privacy (WEP)
- WiFi Protected Access (WPA)/WPA2 Personal (PSK)
- Extensible Authentication Protocol (EAP)
 - Protected Extensible Authentication Protocol (PEAP) — with Microsoft Challenge-Handshake Authentication Protocol version 2 (MSCHAPv2) and Generic Token Card (GTC) authentication.
 - EAP-Transport Layer Security (TLS)
 - EAP-TTLS - with Password Authentication Protocol (PAP), MSCHAP and MSCHAPv2 authentication

The **Status** bar displays icons that indicate WiFi network availability and WiFi status.

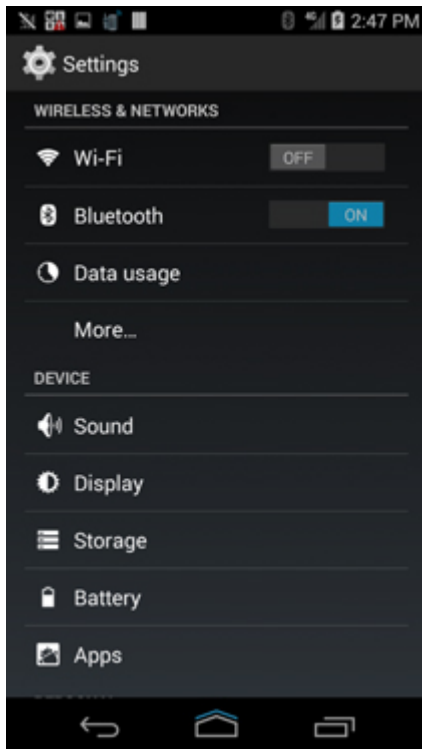


Note: Turn off WiFi when not using it, to extend the life of the battery.

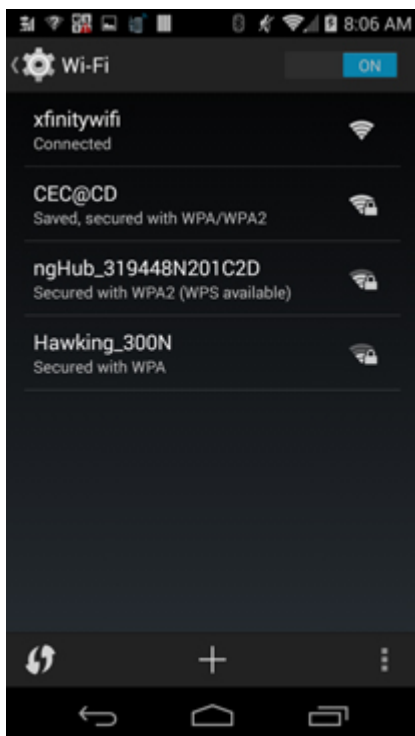
8.2.1 Scanning and Connecting to a WiFi Network

Procedure:

- 1 Tap .
- 2 Tap .

Figure 93: Settings Screen

- 3 Slide the **WiFi** switch to the **ON** position.
- 4 Tap  **WiFi**. The LEX L10 searches for WLANs in the area and lists them.

Figure 94: WiFi Screen

- 5 Scroll through the list and select the desired WLAN network.

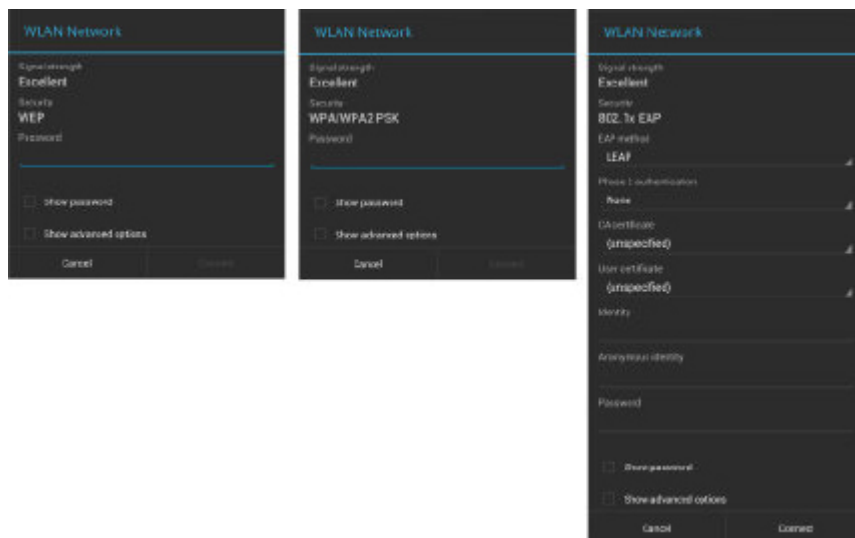
- 6 For open networks, tap profile once or press and hold and then select **Connect to network** or for secure networks enter the required password or other credentials then tap **Connect**. See technical support for more information. The LEX L10 obtains a network address and other required information from the network using the dynamic host configuration protocol (DHCP) protocol.
- 7 In the **WiFi** setting field, **Connected** displays indicating that the LEX L10 is connected to the WLAN.

8.2.2 Configuring a WiFi Network

Procedure:

- 1 Tap .
- 2 Tap .
- 3 Tap  **WiFi**.
- 4 Slide the switch to the **ON** position.
The LEX L10 searches for WLANs in the area and lists them on the screen.
- 5 Scroll through the list and select the desired WLAN network.
- 6 Tap the desired network.
If the network security is **Open**, the LEX L10 automatically connects to the network. For all other network security a dialog box appears.

Figure 95: WLAN Network Security Dialog Boxes



Note: By default, the network Proxy is set to **None** and the IP settings is set to **DHCP**.

- 7 If the network security is **WEP** or **WPA/WPA2 PSK**, enter the required password and then tap **Connect**.
- 8 If the network security is **802.1x EAP**, enter the information below and then tap **Connect**:
 - Tap the **EAP method** drop-down list and select **PEAP**, **TLS** or **TTLS**.
 - Tap the **Phase 2 authentication** drop-down list and select an authentication method.
 - If required, tap **CA certificate** and select a **Certification Authority (CA)** certificate. Note: Certificates are installed using the Security settings.
 - If required, tap **User certificate** and select a user certificate. Note: User certificates are installed using the Location & security settings.

- If required, in the **Identity** text box, enter the username credentials.
- If desired, in the **Anonymous identity** text box, enter an anonymous identity username
- If required, in the **Password** text box, enter the password.

9 Tap .

8.2.3 Adding a WiFi Network

You can add a WiFi Network that is currently out of range or indiscoverable.

Procedure:

- 1 Tap .
- 2 Tap .
- 3 Tap  **WiFi**.
- 4 Slide the **WiFi** switch to the **On** position.
- 5 Tap +.
- 6 Enter network SSID and select **Security**.
- 7 Tap **Save**.
The LEX L10 connects to the wireless network.
- 8 Tap .

8.2.4 Manually Adding a WiFi Network

Manually add a WiFi network if the network does not broadcast its name (SSID) or to add a WiFi network when out of range.

Procedure:

- 1 Tap .
- 2 Tap .
- 3 Tap  **WiFi**.
- 4 Slide the **WiFi** switch to the **ON** position.
- 5 Tap + in the bottom right corner of the screen.
By default, the network Proxy is set to **None** and the IP settings is set to **DHCP**.
- 6 In the **Network SSID** text box, enter the name of the WiFi network.
- 7 In the **Security** drop-down list, select the type of security. Options included are:
 - **None**
 - **WEP**
 - **WPA/WPA2 PSK**
 - **802.1x EAP**
- 8 If the network security is **None**, tap **Save**.
- 9 If the network security is **WEP** or **WPA/WPA2 PSK**, enter the required password and then tap **Save**.
- 10 If the network security is **802.1x EAP** enter the information below and then tap **Save**:
 - Tap **EAP method** drop-down list and select **PEAP**, **TLS** or **TTLS**.
 - Tap **Phase 2 authentication** drop-down list and select an authentication method.
 - Tap **CA certificate** and select a Certification Authority (CA) certificate.



Note: Certificates are installed using the **Security** settings.

- Tap **User certificate** and select a user certificate.



Note: User certificates are installed using the **Security** settings.

- Tap **Identity** to enter the username credentials.
- Tap **Anonymous** to enter an anonymous identity username.
- Tap **Password** to enter password.

11 Tap .

8.2.5 Advanced WiFi Settings



Note: Advanced WiFi settings are for the device not for a specific wireless network.

Use the **Advanced** settings to configure additional WiFi settings. From the **WiFi** screen, tap  → **Advanced** to view the advanced settings.

- **Network notification** — When enabled, notifies the user when an open network is available.
- **Keep WiFi on during sleep** — Opens a menu to set whether and when the WiFi radio turns off.
 - **Always** — The radio stays on when the device enters suspend mode.
 - **Only when plugged in** — The radio stays on while the device is connected to external power.
 - **Never (increases data usage)** — The radio turns off when the device enters suspend mode (default).
- **WiFi optimization** — Minimize the battery usage when WiFi is on.
- **Avoid poor Connection** — The LEX L10 connects to the internet only if connection is good.
- **MAC address** — Displays the Media Access Control (MAC) address of the device when connecting to WiFi networks.
- **IP address** — Displays the IP address of the device when connecting to WiFi networks.

8.2.6 WLAN Configuration

Use the WLAN Configuration settings to configure additional WLAN settings. From the **WiFi** screen, tap  → **Advanced** to view the settings. The following two settings are used to configure WLAN:

- **WiFi frequency band**
 - **Auto (2.4GHz and 5GHz)** — Use both the 2.4 GHz and 5 GHz bands (default).
 - **5Ghz Only** — Use only the 5 GHz band.
 - **2.4Ghz Only** — Use only the 2.4 GHz band.
- **Keep WiFi on during sleep**
 - **Always** — WiFi is always enabled even in sleep mold.
 - **Only when plugged in** — WiFi is enabled only when the LEX L10 is plugged in. If the LEX L10 is not plugged in, the device will not enter the sleep mold.
 - **Never (increases data usage)** — WiFi is never disabled.

8.2.7 Modifying a WiFi Network

The user can change settings and passwords for a network in the WiFi list.

Procedure:

1 Tap .

- 2 Tap .
- 3 Tap  **WiFi**.
- 4 Slide the **WiFi** switch to the **ON** position.
- 5 Tap and hold on a network name and then tap **Modify network**.
- 6 Modify the network settings and then tap **Save**.
- 7 Tap .

8.2.8 Removing a WiFi Network

Procedure:

- 1 Tap .
- 2 Tap .
- 3 Tap  **WiFi**.
- 4 In the **WiFi networks** list, tap and hold the name of the network.
- 5 In the menu, tap **Forget network**.
- 6 Tap .

8.3 Bluetooth

Bluetooth-equipped devices can communicate without wires, using frequency-hopping spread spectrum (FHSS) radio frequency (RF) to transmit and receive data in the 2.4 GHz Industry Scientific and Medical (ISM) band (802.15.1). Bluetooth wireless technology is specifically designed for short-range (10 meters (32.8 feet)) communication and low power consumption.

Devices with Bluetooth capabilities can exchange information (e.g., files, appointments, and tasks) with other Bluetooth enabled devices such as printers, access points, and other mobile devices.

The LEX L10 supports the following Bluetooth accessories:

- Motorola FINITI Bluetooth Headset
- Motorola H17
- Motorola H790
- Motorola Bluetooth Stereo Headphones S10-HD
- Motorola Bluetooth Hands Free Speaker T505
- Parrot Minikit Neo
- Zebra: MX220 and RW220
- Plantronics Voyager PRO+
- Jabra WAVE

The LEX L10 supports remote radio control over following Land Mobile Radios:

- APX 6000
- APX 6000XE
- APX 7000
- APX 7000XE
- APX 7000L

8.3.1 Adaptive Frequency Hopping

Adaptive Frequency Hopping (AFH) is a method of avoiding fixed frequency interferers, and can be used with Bluetooth voice. All devices in the piconet (Bluetooth network) must be AFH-capable in order for AFH to work. There is no AFH when connecting and discovering devices. Avoid making Bluetooth connections and discoveries during critical 802.11b communications. AFH for Bluetooth consists of four main sections:

- Channel Classification - A method of detecting an interference on a channel-by-channel basis, or pre-defined channel mask.
- Link Management - Coordinates and distributes the AFH information to the rest of the Bluetooth network.
- Hop Sequence Modification - Avoids interference by selectively reducing the number of hopping channels.
- Channel Maintenance - A method for periodically re-evaluating the channels.

When AFH is enabled, the Bluetooth radio “hops around” (instead of through) the 802.11b high-rate channels. AFH coexistence allows Motorola Enterprise Tablets to operate in any infrastructure.

The Bluetooth radio in this device operates as a Class 2 device power class. The maximum output power is 2.5 mW and the expected range is 10 meters (32.8 ft.). A definition of ranges based on power class is difficult to obtain due to power and device differences, and whether one measures open space or closed office space.



Note: It is not recommended to perform Bluetooth wireless technology inquiry when high rate 802.11b operation is required.

8.3.2 Security

The current Bluetooth specification defines security at the link level. Application-level security is not specified. This allows application developers to define security mechanisms tailored to their specific need. Link-level security occurs between devices, not users, while application-level security can be implemented on a per-user basis. The Bluetooth specification defines security algorithms and procedures required to authenticate devices, and if needed, encrypt the data flowing on the link between the devices. Device authentication is a mandatory feature of Bluetooth while link encryption is optional.

Pairing of Bluetooth devices is accomplished by creating an initialization key used to authenticate the devices and create a link key for them. Entering a common personal identification number (PIN) in the devices being paired generates the initialization key. The PIN is never sent over the air. By default, the Bluetooth stack responds with no key when a key is requested (it is up to user to respond to the key request event). Authentication of Bluetooth devices is based-upon a challenge-response transaction. Bluetooth allows for a PIN or passkey used to create other 128-bit keys used for security and encryption. The encryption key is derived from the link key used to authenticate the pairing devices. Also worthy of note is the limited range and fast frequency hopping of the Bluetooth radios that makes long distance eavesdropping difficult.

Recommendations are:

- Perform pairing in a secure environment
- Keep PIN codes private and do not store the PIN codes in the device
- Implement application-level security

8.3.3 Bluetooth Profiles

The LEX L10 supports the following Bluetooth services:

- Generic Access Profile (GAP) — Use for device discovery and authentication.
- Service Discovery Protocol (SDAP) — Handles the search for known and specific services and general services.
- Serial Port Profile (SPP) — Sets up a virtual serial port and connects two Bluetooth enabled devices. For example, connecting the LEX L10 to a printer.
- Human Interface Device Profile (HID) — Allows Bluetooth keyboards, pointing devices, gaming devices and remote monitoring devices to connect to the LEX L10.

- Object Push Profile (OPP) — Allows the LEX L10 to push and pull objects to and from a push server.
- Dial-up Networking (DUN) — Allows the LEX L10 to access the Internet and other dial-up services using a Bluetooth enabled mobile phone.
- Hands-Free Profile (HFP) — Allows a hands-free device, such as a Bluetooth headset, to place and receive calls on the LEX L10.
- Advanced Audio Distribution Profile (A2DP) — Allows the LEX L10 to stream stereo-quality audio to a wireless headset or wireless stereo speakers.
- Audio/Video Remote Control Profile (AVRCP) — Allows the LEX L10 to control televisions, hi-fi equipment, etc.
- General Object Exchange Profile (GOEP) — Provides a basis for other data profiles. Based on OBEX and sometimes referred to as such.
- Handsfree Profile (HFP) — Allow car hands-free kits to communicate with mobile phones in the car.
- Personal Area Network (PAN) — Allow the use of Bluetooth Network Encapsulation Protocol on Layer 3 protocols for transport over a Bluetooth link.
- General Audio/Video Distribution Profile (GAVDP) — Provides the basis for A2DP, and VDP.
- Phone Book Access Profile (PBAP) — Allows exchange of Phone Book Objects between a car kit and a mobile phone to allow the car kit to display the name of the incoming caller; allow the car kit to download the phone book so the user can initiate a call from the car display.
- Message Access Profile (MAP) — allows exchange of messages between devices.
- Handset Profile (HSP) — Provides support for the popular Bluetooth headsets to be used with mobile phones with ability to ring, answer a call, hang up and adjust the volume.
- File Transfer Profile (FTP) — Provides the capability to browse, manipulate and transfer files and folders in a file system of another system.
- Proximity profile (PXP) — Enables proximity monitoring between two devices.
- Heart Rate Profile (HRP) — Enables transmission and reception of medical device data.
- Health Thermometer profile (HTP) — Enables transmission and reception of medical device data.

8.3.4 Bluetooth Power States

The Bluetooth radio is off by default.

- **Suspend** — When the LEX L10 goes into suspend mode, the Bluetooth radio stays on.
- **Airplane Mode** — When the LEX L10 is placed in **Airplane Mode**, the Bluetooth radio turns off. When **Airplane Mode** is disabled, the Bluetooth radio returns to the prior state. When in **Airplane Mode**, the Bluetooth radio can be turned back on if desired.

8.3.5 Bluetooth Radio Power — Android

Turn off the Bluetooth radio to save power or if entering an area with radio restrictions (e.g., an airplane). When the radio is off, other Bluetooth devices cannot see or connect to the device. Turn on the Bluetooth radio to exchange information with other Bluetooth devices (within range). Communicate only with Bluetooth radios in close proximity.



Note: To achieve the best battery life turn off radios when not in use.

8.3.5.1 Enabling Bluetooth

Procedure:

- 1 Tap
- 2 Tap
- 3 Slide the **Bluetooth** switch to the **ON** position. also appears in the **Status** bar.

- 4 Tap .

8.3.5.2 Disabling Bluetooth

Procedure:

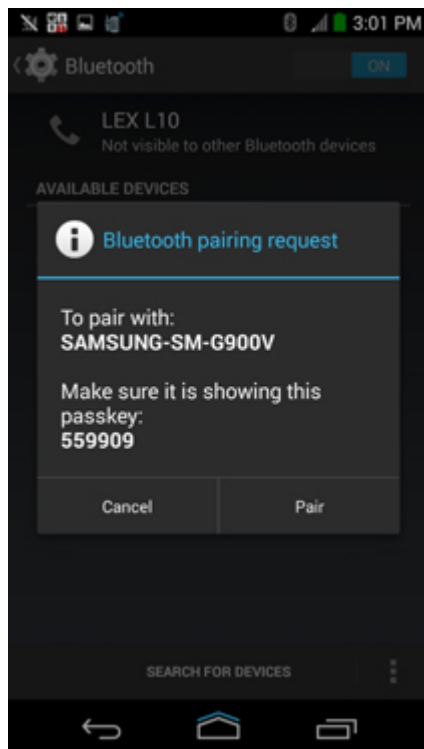
- 1 Tap .
- 2 Tap .
- 3 Slide the **Bluetooth** switch to the **OFF** position.
- 4 Tap .

8.3.6 Discovering Bluetooth Device(s)

The LEX L10 can receive information from discovered devices without pairing. However, once paired, the LEX L10 and a paired device exchange information automatically when the Bluetooth radio is on. To find Bluetooth devices in the area:

Procedure:

- 1 Ensure that Bluetooth is enabled on both devices.
- 2 Ensure that the Bluetooth device to discover is in discoverable mode.
- 3 Ensure that the two devices are within 10 meters (32.8 feet) of one another.
- 4 Tap .
- 5 Tap .
- 6 Tap  **Bluetooth**.
- 7 Tap **SEARCH FOR DEVICES**.
The LEX L10 begins searching for discoverable Bluetooth devices in the area and displays them under **AVAILABLE DEVICES**.
- 8 Scroll through the list and tap a device.
The **Bluetooth pairing request** dialog box displays.

Figure 96: Bluetooth Pairing

- 9 Tap **Pair** on both devices.

The Bluetooth device is added to the **Bluetooth devices** list and a trusted (“paired”) connection is established.

8.3.7 Changing the Bluetooth Name

By default, the LEX L10 has a generic Bluetooth name that is visible to other devices when connected.

Procedure:

- 1 Tap
- 2 Tap
- 3 Tap **Bluetooth**.
- 4 If Bluetooth is not on, slide the switch to the **ON** position.
- 5 Tap
- 6 Tap **Rename Phone**.
- 7 Enter a name and tap **Rename**.
- 8 Tap

8.3.8 Connecting to a Bluetooth Device

Once paired, connect to a Bluetooth device.

Prerequisites: The Bluetooth device must be in discoverable mode.

Procedure:

- 1 Tap ,

- 2 Tap .
- 3 Tap  **Bluetooth**.
- 4 If Bluetooth is not on, slide the switch to the **ON** position.
- 5 In the **AVAILABLE DEVICES** list, tap an unconnected Bluetooth device until a menu appears.
- 6 Tap **Pair**.
When connected, the device is displayed as connected in the list.

8.3.9 Selecting Profiles on a Bluetooth Device

Some Bluetooth devices have multiple profiles for different connections.

When and where to use: Use this procedure to select a profile on the Bluetooth device that connects to the LEX L10.

Procedure:

- 1 Tap .
- 2 Tap .
- 3 Tap  **Bluetooth**.
- 4 In the **AVAILABLE DEVICES** list, tap  next to the device name.
- 5 Under **PROFILES**, select a profile to use.
- 6 Tap .

8.3.10 Unpairing a Bluetooth Device

Prerequisites: The Bluetooth device is paired with the LEX L10.

When and where to use: Use this procedure to unpair a Bluetooth device and erase all its pairing information.

Procedure:

- 1 Tap .
- 2 Tap .
- 3 Tap  **Bluetooth**.
- 4 In the **AVAILABLE DEVICES** list, tap  next to the device name.
- 5 Tap **Unpair**.
- 6 Press .

8.4 Pairing the LEX L10 with a Radio

The LEX L10 can extend its functionality by remotely operating and controlling an external proprietary Motorola Solutions Radio (such as the APX™7000/APX™7000L) or accessory using Bluetooth.

Once pairing is established, the range of connection is no more than 10 meters line-of-sight. This is an unobstructed path between the location of the LEX L10 and the location of the Radio (or other paired accessory).

Obstacles that can cause an obstruction in the line-of-sight include trees, buildings, cars and etc. It is NOT recommended that you leave the Radio behind and expect the LEX L10 to work with a high degree of reliability when they are separated.

At the fringe areas of reception, both voice and tone quality will start to sound "garbled" or "broken". To correct this problem, simply position the LEX L10 and Radio (or other paired accessory) closer to each other (within the 10 meter defined range) to re-establish clear audio reception.

8.4.1 Establishing a Connection

Prerequisites:

- Verify that your Land Mobile Radio (LMR) includes a secure Bluetooth pairing feature. Turn on Bluetooth feature of the LEX L10 and radio. In the radio, enable the Bluetooth tones (see LMR User Guide).
- The LEX L10 is not paired with other radio.

When and where to use: Use this procedure to pair the LEX L10 with a radio.

Procedure:

- 1 Turn on the radio.
 - 2 On the LEX L10 screen, tap .
 - 3 On the LEX L10 screen, tap .
- The **Pairing** screen displays on the LEX L10 and the pairing process starts.

Figure 97: Pairing Screen



- 4 Bring the blue pairing dots on the LEX L10 and radio close to each other (within 2.5 cm) and follow the instructions shown on the LEX L10 screen.

Figure 98: Blue Pairing Dots

- If the pairing process is successful, the radio sounds an incremental-pitched tone to indicate paired.
- If the pairing process fails, the radio sounds a short, low pitched tone. If this happens, tap **Pair** to resume pairing.

The LEX L10 remembers the radio and will automatically resume connection whenever the radio is on and within connection range.

Chapter

9

Accessories

This chapter provides information for using the accessories associated with the LEX L10.

9.1 LEX L10 Accessories

Table 10: General Accessories

Item	Desktop Cradle	Impact-Rated Vehicle Cradle
Physical		
Dimensions (H x W x D)	6.0 x 5.0 x 3.5 in (152 x 128 x 89 mm)	6.1 x 3.0 x 2.2 in (155 x 76 x 56 mm)
Weight	12.8 oz (363 g)	4.8 oz (135 g)
Environmental Specification		
Operating Temperature	32°F to 113°F (0°C to +45°C)	-4°F to 131°F (-20°C to +55°C)
Storage Temperature	-40° F to 158°F (-40°C to 70°C)	-40° F to 185°F (-40°C to +85°C)
Humidity	95% at 113°F (45°C) for 8 hours (non-condensing)	95% at 131°F (55°C) for 8 hours (non-condensing)
Durability		
Salt Fog	Yes	Yes
Vibration	Yes	Yes
Drop	Yes	Yes
Shock (Functional)	Yes	Yes
Shock (Crash Hazard)		Yes, MIL-STD-810G, 75G impact
ESD	Yes	Yes
Solar Radiation		Yes
Liquid Resistance	Yes	Yes
Safety Regulatory		
Electrical Safety	US: UL60950	US: UL60950
EMI/RFI	FCC part 15, Subpart B, Class B	
ANSI C63.4 2009	FCC part 15, Subpart B, Class B	

Table continued...

Item	Desktop Cradle	Impact-Rated Vehicle Cradle
Flammability	ANSI/UL-94 and ASTM Standards	ANSI/UL-94 and ASTM Standards
Electrical		
Power Supply	External power supply input 100-240VAC output 5.0VDC 1.2A	12V-24V, 5.0VDC, 1.2A
Power Input	5.0 VDC, 1.2A	5.0 VDC, 1.2A
DC Output	5.0VDC	5.0VDC
Power On	With device insertion	With device insertion
Optional Accessories		
Vehicle Ram® Mount Kit		

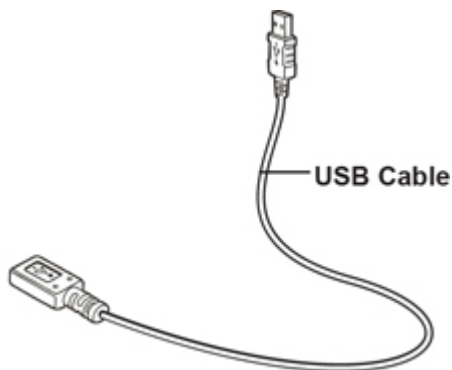
Specifications subject to change.

9.2 USB Cable

The USB cable:

- Connects the LEX L10 to a USB charger to charge the LEX L10.
- Provides USB communication with a host computer. When the LEX L10 is connected to a host computer, the LEX L10 appears as a removable disk on the host computer.

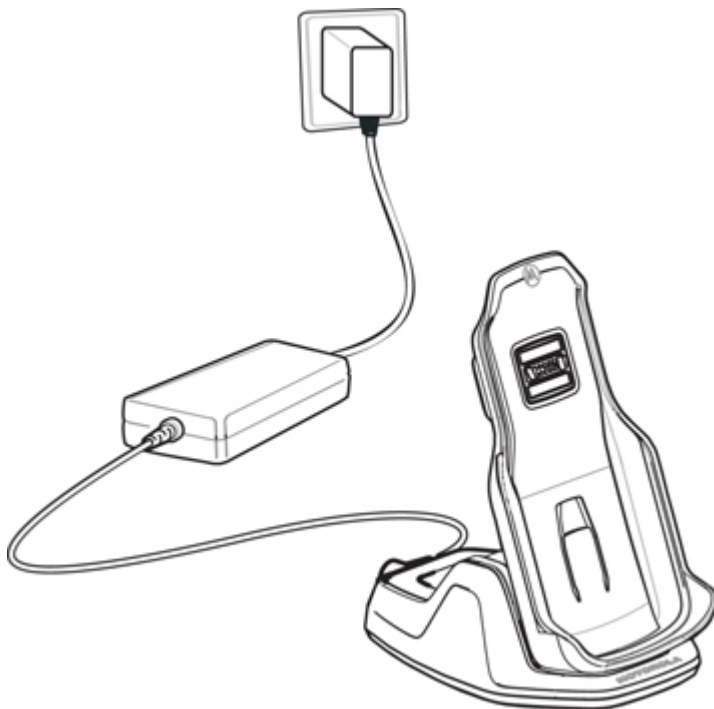
Figure 99: USB Cable



9.3 Desktop Cradle

The desktop cradle:

- Provides power for charging and operating the LEX L10.
- Enables connecting a mouse to the LEX L10.

Figure 100: Desktop Cradle

Charging the LEX L10

To charge the LEX L10, insert the LEX L10 units by placing the bottom of the LEX L10, at a slight forward angle, into the cradle.

The LEX L10's LED shows the status of the battery charging. See Battery Charge LED Status for charging status indications. The 2280 mAh battery charges in approximately ten hours.

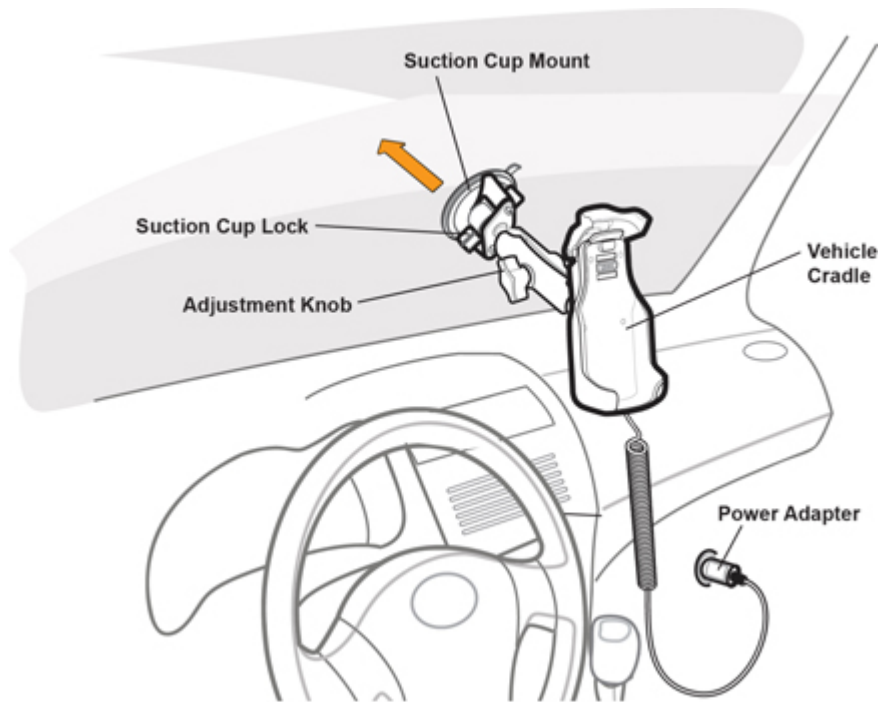
Charge the LEX L10 units in temperatures from 0°C to +45°C (32°F to 113°F). Note that charging is intelligently controlled by the LEX L10. To accomplish this, for small periods of time, the LEX L10 alternately enables and disables battery charging to keep the battery at acceptable temperatures. The LEX L10 indicates when charging is disabled due to abnormal temperatures via its notification LED.

9.4 Vehicle Cradle

Install the vehicle mount on the surface of the vehicle that is reasonably flat and free of dirt and oil. Clean the mounting surface with a glass cleaner and a clean cotton cloth. Install the vehicle mount on the windshield or other flat car surface.

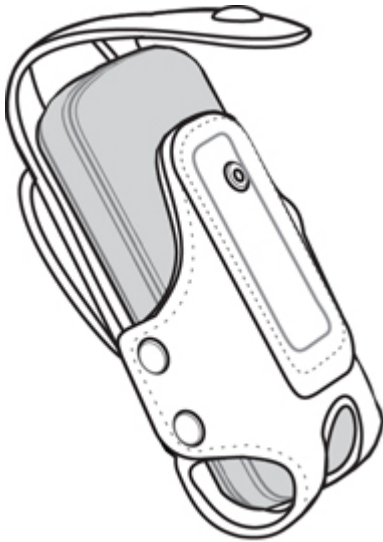


Caution: Some states prohibit the mounting of any electronic device in any location on the vehicle dashboard. Be sure to check with local laws acceptable mounting areas before installing the auto mounting kit.

Figure 101: Vehicle Cradle on Windshield

9.5 Holster

Use the holster to securely carry the LEX L10 when working. The holster is threaded through a belt and stores the LEX L10 when not in use or when using a headset.

Figure 102: Holster

Insert the LEX L10 into the holster with the screen facing in or out.

Chapter 10

Maintenance & Troubleshooting

This chapter includes instructions on cleaning and storing the LEX L10. It also provides troubleshooting solutions for potential problems during LEX L10 operation.

10.1 Maintaining the LEX L10

For trouble-free service, observe the following tips when using the LEX L10:

- Do not scratch the screen of the LEX L10. Never use a pen or a pencil or other sharp object on the surface of the LEX L10 screen.
- The touch-sensitive screen of the LEX L10 is made of polycarbonate. Do not drop the LEX L10 or subject it to strong impact.
- Protect the LEX L10 from temperature extremes. Do not leave it on the dashboard of a car on a hot day, and keep it away from heat sources.
- Do not store the LEX L10 in any location that is dusty, damp or wet.
- Use a soft lens cloth to clean the LEX L10. If the surface of the LEX L10 screen becomes soiled, clean it with a soft cloth moistened with isopropyl alcohol.
- Periodically replace the rechargeable battery to ensure maximum battery life and product performance. Battery life depends on individual usage patterns.

10.2 Battery Safety Guidelines

- The area where the units are charged should be clear of debris and combustible materials or chemicals.
- Follow battery usage, storage, and charging guidelines found in this guide.
- Improper battery use may result in a fire, explosion, or other hazard.
- To charge the battery, the battery and charger temperatures must be between +32 °F and +113 °F (0 °C and +45 °C).
- Do not use incompatible batteries and chargers. Use of an incompatible battery or charger may present a risk of fire, explosion, leakage, or other hazard. If you have any questions about the compatibility of a battery or a charger, contact Motorola Solution support.
- If charging through a USB port, the device shall only be connected to products that bear the USB-IF logo or have completed the USB-IF compliance program.
- To enable authentication of an approved battery, as required by IEEE1725 clause 10.2.1, all batteries will carry a Motorola hologram. Do not fit any battery without checking it has the Motorola authentication hologram.
- Do not disassemble or open, crush, bend or deform, puncture, or shred.
- Severe impact from dropping any battery-operated device on a hard surface could cause the battery to overheat.
- Do not modify or remanufacture, attempt to insert foreign objects into the battery, immerse or expose to water or other liquids, or expose to fire, explosion, or other hazard.

- Do not leave or store the equipment in or near areas that might get very hot, such as in a parked vehicle or near a radiator or other heat source. Do not place battery into a microwave oven or dryer.
- Battery usage by children should be supervised.
- Follow local regulations to properly dispose of used rechargeable batteries.
- Do not dispose of batteries in fire.
- In the event of a battery leak, do not allow the liquid to come in contact with the skin or eyes. If contact has been made, wash the affected area with large amounts of water and seek medical advice.
- If you suspect damage to your equipment or battery, contact Motorola Solutions support to arrange for inspection.

10.3 Cleaning Instructions



Warning: Avoid exposing this product to contact with hot oil or other flammable liquids. If such exposure occurs, unplug the device and clean the product immediately in accordance with these guidelines. Avoid exposing this product to contact with hot oil or other flammable liquids. If such exposure occurs, unplug the device and clean the product immediately in accordance with these guidelines.



Caution:

Always wear eye protection.

Read the warning labels on compressed air and alcohol products before use.

If you have to use any other solution for medical reasons, contact Motorola Solutions for more information.

Approved Cleanser Active Ingredients

100% of the active ingredients in any cleaner must consist of one or a combination of the following: isopropyl alcohol, or mild dish soap.

Cleaning Instructions

Do not apply liquids directly to the device. Dampen a soft cloth or use pre-moistened wipes. Do not wrap the device in the cloth or wipe, but gently wipe the unit

Harmful Ingredients

Many vinyl gloves contain phthalate additives, which are often not recommended for medical use and are known to be harmful to the housing of the device. The device should not be handled while wearing vinyl gloves containing phthalates, or before hands are washed to remove contaminant residue after gloves are removed. If products containing the harmful ingredients are used before handling the device, such as hand sanitizers containing ethanolamine, hands must be completely dry before handling the device to prevent damage to the plastics.

Cleaning Materials Required

- Alcohol wipes
- Lens tissue
- Cotton-tipped applicators
- Isopropyl alcohol
- Can of compressed air with a tube

Cleaning Frequency

The cleaning frequency is up to your discretion due to the varied environments in which the mobile devices are used. They may be cleaned as frequently as required, but it is advisable to clean the camera window periodically when used in dirty environments to ensure optimum performance.

10.4 Cleaning the LEX L10

Housing

Using the alcohol wipes, wipe the housing including buttons.

Display

The display can be wiped down with the alcohol wipes, but care should be taken not to allow any pooling of liquid around the edges of the display. Immediately dry the display with a soft, non-abrasive cloth to prevent streaking.

Camera Window

Wipe the camera window periodically with a lens tissue or other material suitable for cleaning optical material such as eyeglasses.

10.5 Cleaning the Interface Connector

To clean the contacts of the interface connector on LEX L10:

Procedure:

- 1 Power off the LEX L10.
OPTIONAL TAG: Type additional step information here e.g. notes - or delete this tag
- 2 Dip the cotton portion of the cotton-tipped applicator in isopropyl alcohol.
- 3 Rub the cotton portion of the cotton-tipped applicator along the contacts of the interface connector. Slowly move the applicator back-and-forth from one side of the connector to the other.
- 4 If grease and other dirt can be found on other areas of the cradle, remove using a lint-free cloth and alcohol.
- 5 Allow few minutes (depending on ambient temperature and humidity) for the alcohol to air dry before powering on the LEX L10.

10.6 Cleaning the Battery Contacts

To clean the connectors:

Procedure:

- 1 Remove the main battery from LEX L10.
 - 2 Dip the cotton portion of the cotton-tipped applicator in isopropyl alcohol.
 - 3 Gently, rub the cotton portion of the cotton-tipped applicator back-and-forth across the contacts. Do not leave any cotton residue on the contacts.
 - 4 Use the cotton-tipped applicator dipped in alcohol to remove any grease and dirt near the contacts area.
 - 5 Use a dry cotton-tipped applicator and repeat steps 4 and 5 at least three times.
-  **Caution:** Do not point nozzle at yourself and others. Ensure that the nozzle or tube is away from your face.
- 6 Spray compressed air on the connector area by pointing the tube/nozzle about ½ inch away from the surface.
 - 7 Inspect the area for any grease or dirt, repeat if required.

10.7 Troubleshooting the LEX L10

Table 11: Troubleshooting the LEX L10

Problem	Cause	Solution
After pressing the Power button, the LEX L10 does not turn on.	Battery is completely discharged.	Re-charge or replace the battery.
	Battery not installed properly.	Install the battery properly. See Installing the Battery .
	Power button not held down long enough.	Press the Power button until the Motorola Solutions splash screen is displayed.
	LEX L10 not responding.	Reset the LEX L10.
After pressing the Power button, the LEX L10 does not turn on but a charge battery icon Appears.	Battery charge level is very low.	Re-charge or replace the battery.
After connecting the LEX L10 to a Cable, a battery charging icon Appears.	Battery is depleted but is charging.	Press and hold the Power button to turn on the LEX L10.
When charging, the LED slowly blinks red.	The LEX L10 is at an extremely low-power state.	Charge the LEX L10 for a few minutes. The LED changes to flashing green then press the Power button to turn on the LEX L10. If LED continuously blinks red, check power connections. Disconnect and reconnect connections.
Battery did not charge.	Battery failed.	Replace battery. If the LEX L10 still does not operate, perform a hardware reset.
	LEX L10 was removed from power while battery was charging.	Insert LEX L10 in cradle or attach Charge Cable. The 2280 mAh battery fully charges in approximately four hours.
	Extreme battery temperature.	Battery does not charge if ambient temperature is below 0 °C (32 °F) or above 45 °C (113 °F).
During data communication with a host computer, no data transmitted, or transmitted data was incomplete.	LEX L10 removed from USB cable or disconnected from host computer during communication.	Reattach the communication cable and re-transmit.
	Incorrect cable configuration.	See technical support.

Table continued...

Problem	Cause	Solution
During data communication over WiFi, no data transmitted, or transmitted data was incomplete.	WiFi radio is not on.	Turn on the WiFi radio.
	You moved out of range of an access point.	Move closed to an access point.
During data communication over Bluetooth, no data transmitted, or transmitted data was incomplete.	Bluetooth radio is not on.	Turn on the Bluetooth radio.
	You moved out of range of another Bluetooth device.	Move within 10 m (32.8 ft.) of the other device.
During data communication over Public / Private, no data transmitted, or transmitted data was incomplete.	You are in an area of poor cellular service.	Move into an area that has better service.
	VPN is not set up correctly.	See technical support for VPN setup information.
	SIM card not installed properly.	Remove and re-install the SIM cards.
	Data plan not activated.	Contact your service provider and ensure that your data plan is enabled.
No sound.	Volume setting is low or turned off.	Adjust the volume.
LEX L10 turns off.	LEX L10 is inactive.	The display turns off after a period of inactivity. Set this period to 15 seconds, 30 seconds, 1, 2, 5, 10, or 30 minutes.
	Battery is depleted.	Recharge or replace the battery.
	Extreme battery temperature.	Move device to an area where the ambient temperature is between 0 °C (32 °F) or above 45 °C (113 °F).
A message appears stating not enough storage memory.	Too many applications installed on the LEX L10.	Remove user-installed applications on the LEX L10 to recover memory. Select  →  → Apps → Downloaded . Select the unused programs and tap Uninstall .
LEX L10 cannot find any Bluetooth devices nearby.	Too far from other Bluetooth devices.	Move closer to the other Bluetooth device(s), within a range of 10 meters (32.8 feet).
	The Bluetooth device(s) nearby are not turned on.	Turn on the Bluetooth device(s) to find.
	The Bluetooth device(s) are not in discoverable mode.	Set the Bluetooth device(s) to discoverable mode. If needed, see the device's user documentation for help.

10.8 Backing Up the LEX L10

Backing up the LEX L10 must be done manually.

Prerequisites: A USB cable to connect the LEX L10 to a computer.

When and where to use: Use this procedure anytime a backup of the LEX L10 is necessary.

Procedure:

- 1 Connect the LEX L10 to a computer using the supplied USB cable.
The first time you connect to a computer the following message is displayed:
`Installing Device Driver Software`
After the driver software is installed, the following message is displayed:
`Your device is ready to use`
- 2 Click the **Start** button and then select **Computer**.
- 3 Select the **LEX L10** Portable Device.
- 4 Select **Internal storage**.
- 5 Navigate to the files that you want to back up.
- 6 Copy the files/folders to a secure location on your computer.

10.8.1 Backing up Contacts

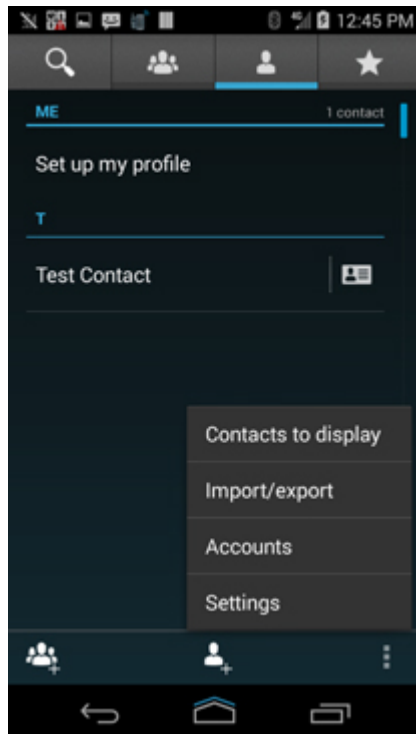
To back up contacts, the contacts must be exported to a VCF file which must be copied to a secure location.

Prerequisites: Contacts must exist in the contact list.

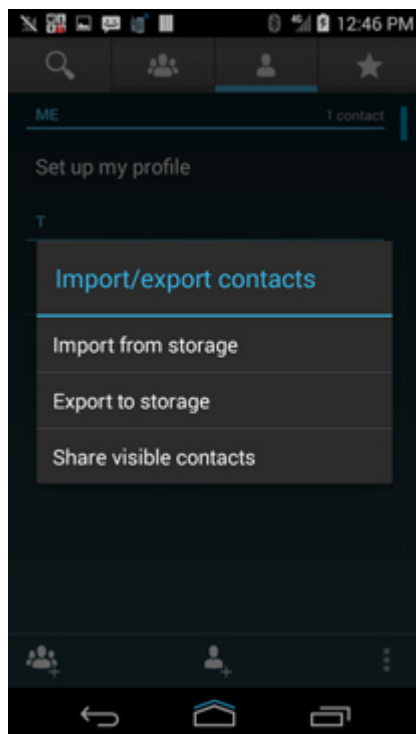
When and where to use: Use this procedure to periodically back up your contacts.

Procedure:

- 1 From the **Home** screen, tap .
- 2 Tap .

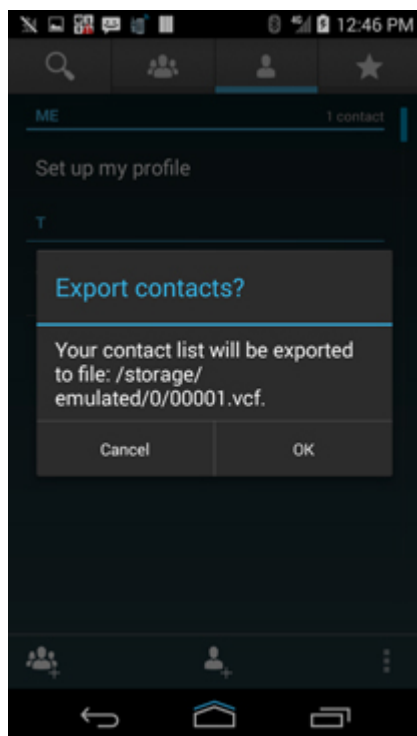
Figure 103: Contacts Menu

- 3 Select **Import/export**.

Figure 104: Import/Export Contacts Popup

- 4 Select **Export to storage**.

Figure 105: Export Confirmation Popup



- 5 Tap **OK** to export the contacts.
The VCF file is saved to the location indicated.
- 6 Follow the procedure under [Backing Up the LEX L10 on page 150](#) to complete the contacts backup.

10.9 Resetting the LEX L10

When and where to use: If the LEX L10 does not operate properly, perform the following:

Procedure:

- 1 Power off and on the LEX L10 and verify if the problem is gone.
The LEX L10 restarts. If the problem remains, perform Step 2.



Caution: To avoid erasing important data from your LEX L10, do not press any of the LEX L10 buttons during power up.

- 2 Remove the battery, reinsert it, and verify if the problem is gone.
The LEX L10 restarts. If the problem remains, perform factory data reset.

10.9.1 Performing Factory Data Reset

A factory data reset is a software restore of the LEX L10 to its original manufacturer settings. Before resetting the LEX L10, back up your data. Factory data reset erases all your personal data from the LEX L10 memory and microSD card including: configuration, contents, accounts, installed applications, user settings, music, photos, videos, installed licenses, pre-loaded application updates, DM bootstrapping data, integrated and pre-loaded application

configuration, post-loaded applications and user passwords. After reset is performed, re-enter your backed up information.

When and where to use: Use this procedure to perform factory data reset:



Caution: Factory data reset is performed only by technical support as a last resort when the LEX L10 fails to operate. Before performing factory data reset, remove the SIM and microSD cards from the LEX L10. Performing factory data reset with a microSD or SIM cards installed may cause data corruption or loss.



Note: Factory data reset configures the LEX L10 to public communication only. To return to combined Public and Private configuration, see your technical support. The last updated firmware and the initial version of pre-loaded applications are preserved through a reset to factory defaults.

Procedure:

- 1 Tap .
- 2 Tap .
- 3 Tap **Backup & reset**.
- 4 Tap **Factory data reset**.

The LEX L10 powers off, powers on, then the system recovery screen appears.

Chapter

11

LEX L10 Technical Specifications

The following table summarizes the LEX L10 operating, environment and technical hardware specifications.

Table 12: LEX L10 Technical Specifications

Item	Specification
Physical	
Dimensions (H x W x D)	5.62 x 2.85 x 0.547 in. 143 x 72.6 x 13.0 mm
Weight	195 g (6.88 Oz) including standard battery
Durability	Continues to run after multiple drops to concrete from a height of 48 inches (121 cm) Drop tested using MIL-STD-810G Method 516.6, Procedure IV IP67 (1 meter water immersion for 30 minutes)
Display	4.7" 720p HD (720 x 1280) Capacitive touch screen
Operating Temperature	14°F to 131°F (-10°C to +55°C)
Storage Temperature	-22°F to 149°F (-30°C to +65°C)
Hardware	
Processor	2.3 GHz Qualcomm MSM8974AB Quad Core Processor
Display	4.7" 720X1280 Capacitive, touch screen
Memory	2 GB RAM 16 GB eMMC Expandable to 64GB with microSD™ card
Camera	Rear 8MP Camera Auto Focus High-Output LED Flash

Table continued...

Item	Specification
	Digital Zoom Front 2MP Camera
Sensors	Proximity Sensor Ambient Light Sensor Accelerometer Sensor Barometer Sensor E-Compass
Ports	USB 2.0 High-Speed 3.5 mm Audio Jack (stereo) Accessory/Charging Port
Battery	Standard - 2280 mAh, 10 hours High Capacity - 4560 mAh, 20 hours
Software	
Operating System	Android™ KitKat 4.4.4
User Interface	Public Safety Experience (PSX) Software
Messaging	SMS/MMS Email (Corporate Sync, POP3, IMAP, Push Email)
Web	Standard AOSP Browser
LTE	
Release	3GPP Release 9
Band Class	Band 4, 13 Band 14 (Public Safety LTE)
Output Power	23 dBm +/- 2 dB (UE power class 3)
Bandwidth	5 MHz, 10 MHz Broadband data throughput depends on network conditions
CDMA	
Standards	EVDO Rev. A (Band 0, Band 1) 3G, 1X
Frequencies	800/1900 MHz
WiFi	
Operating Band	2.4 GHz, 5 GHz
Standards	802.11 a/b/g/n
Personal Area Networks	
Bluetooth	Bluetooth 4.0 Low Energy (LE) + Enhanced Data Rate (EDR)

Table continued...

Item	Specification
	Mission Critical Wireless Bluetooth Max throughput 2.1 Mbps A2DP Stereo Profile
GPS	
Location Services	Standalone GPS Assisted GPS (aGPS)
Device Management	
Remote Management and Configuration	Supports OMA-DM (Open Mobile Alliance Device Management)
Video and Imaging	
Supported Formats	H.263, H.264, MPEG-4 SP, VP8, JPEG (.jpg), GIF (.gif), PNG (.png), BMP (.bmp), WebP (.webp) Formats supported for playback, streaming and recording
Supported File Types	3GPP (.3gp), MPEG-4 (.mp4), WebM (.webm), (.mkv)
Video Recording Quality	1080p HD up to 30 frames per second (fps)
Note: Video and images are time stamped for evidence documentation	
Audio	
Supported Formats	MP3, WAVE, AAC, AMR-NB, AMR-WB, FLAC, MIDI, Vorbis
Supported File Types	MP3 (.mp3), WAVE (.wav), 3GPP (.3gp), MPEG-4 (.mp4, m4a), ATDS raw AAC (.aac), MPEG-TS (.ts) FLAC (.flac), MIDI (.mid, .xmf, .mxmf), RTTTL/RTX (.rtttl, rtx), OTA (.ota), iMelody (.imy), Ogg (.ogg), Matroska (.mkv)
Output	Dual 1 Watt Front-Facing Speakers, 106 dB Sound Pressure Level (SPL) 3.5 mm audio jack (stereo) Bluetooth (A2DP stereo)
Input	Triple Noise and Echo Cancelling Microphones
Quick Access Leather Holster	
Dimensions (H x W x D)	5.7 x 3.5 x 2.0 in (145 x 90 x 50 mm)

Specifications subject to change.

Table 13: General Accessories

Item	Desktop Cradle	Impact-Rated Vehicle Cradle
Physical		
Dimensions (H x W x D)	6.0 x 5.0 x 3.5 in (152 x 128 x 89 mm)	6.1 x 3.0 x 2.2 in (155 x 76 x 56 mm)
Weight	12.8 oz (363 g)	4.8 oz (135 g)
Environmental Specification		
Operating Temperature	32°F to 113°F (0°C to +45°C)	-4°F to 131°F (-20°C to +55°C)
Storage Temperature	-40° F to 158°F (-40°C to 70°C)	-40° F to 185°F (-40°C to +85°C)
Humidity	95% at 113°F (45°C) for 8 hours (non-condensing)	95% at 131°F (55°C) for 8 hours (non-condensing)
Durability		
Salt Fog	Yes	Yes
Vibration	Yes	Yes
Drop	Yes	Yes
Shock (Functional)	Yes	Yes
Shock (Crash Hazard)		Yes, MIL-STD-810G, 75G impact
ESD	Yes	Yes
Solar Radiation		Yes
Liquid Resistance	Yes	Yes
Safety Regulatory		
Electrical Safety	US: UL60950	US: UL60950
EMI/RFI	FCC part 15, Subpart B, Class B	
ANSI C63.4 2009	FCC part 15, Subpart B, Class B	
Flammability	ANSI/UL-94 and ASTM Standards	ANSI/UL-94 and ASTM Standards
Electrical		
Power Supply	External power supply input 100-240VAC output 5.0VDC 1.2A	12V-24V, 5.0VDC, 1.2A
Power Input	5.0 VDC, 1.2A	5.0 VDC, 1.2A
DC Output	5.0VDC	5.0VDC
Power On	With device insertion	With device insertion
Optional Accessories		
Vehicle Ram® Mount Kit		

Specifications subject to change.