LEX L10i Mission Critical Handheld User Guide

JANUARY 2016

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Contact Us

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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
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International Calls	**302-444-9800**

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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.
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Document History

Version	Description	Date
MN002347A01-A	Initial release of the *LEX L10i Mission Critical Handheld User Guide*.	January 2016

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Chapter 1

About this Guide

This guide provides information about using the LEX L10i Mission Critical Handheld and accessories.

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

Contact Us

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

Motorola Solution Support Center

Call the SSC:

- 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**
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Versions

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

Operating System Version

The Operating System for the LEX L10i is the Android Operating System.

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.

Software Build Number

This topic has information on how to find the software build number of your LEX L10i.

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

Kernel Version

The Kernel version can be found in the **Settings** application.

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

Chapter Descriptions

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

- About this Guide on page 25 Chapter 1, presents contacts and general information related to this product.
- Getting Started on page 31 Chapter 2, explains getting the LEX L10i up and running for the first time.
- Using the LEX L10i on page 57 Chapter 3, is a reference to operating the LEX L10i.
- Calling on page 79 Chapter 4, is a reference to making and receiving calls.
- Radio Services on page 91 Chapter 5, is a reference to connecting the LEX L10i to a Land Mobile Radio for communicating on LTE and P25 systems.
- Messaging on page 95 Chapter 6, is a reference to sending text and multimedia messages.
- Applications on page 99 Chapter 7, explains using basic applications installed on the LEX L10i such as Camera, People, and File Browser.

- Wireless on page 121 Chapter 8, explains configuring the LEX L10i to operate on a personal, local, and wide area wireless network.
- ADB and USB Driver Setup on page 139 Chapter 9, is a reference to setting up the Android Debug Bridge (ADB) and USB driver for your Windows PC.
- Accessories on page 145 Chapter 10, is a reference to available accessories and how to use them with the LEX L10i.
- Maintenance and Troubleshooting on page 149 Chapter 11, is a reference to cleaning and storing the LEX L10i, and troubleshooting solutions for potential problems.
- Technical Specifications on page 159 Chapter 12, provides technical specifications for the LEX L10i.

Helpful Background Information

Motorola Solutions 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.

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.

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.

NOTICE: NOTICE 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.

Regulatory Information

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

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.

Documentation Set

The documentation set for the LEX L10i provides information for specific user needs.

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 L10i includes:

- *LEX L10i Quick Start Guide* PN MN002346A01-A describes how to get the LEX L10i up and running.
- *LEX L10i Mission Critical Handheld User Guide* (this guide) MN002347A01-A describes how to use the LEX L10i.
- *LEX L10i Regulatory and Safety Guide* PN MN002351A01-A describes how to safely use the LEX L10i.
- *LEX L10i Service Provisioning Guide* PN MN002352A01-A provides technical instructions on how to activate, provision, and configure the LEX L10i.

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

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Chapter 2

Getting Started

Use the information in this chapter to help you get started using the LEX L10i.

Features

The LEX L10i features are shown in the following figure and summarized in the following table.

Figure 2: LEX L10i Features

Table 1: LEX L10i Features

Item	Function
Charge/Notification LED	**Solid Blue:** New notification (New Voice mail, New Text messages, Missed Calls, Android App Notifications, and so on) **Off:** Battery is not charging. **Solid Red:** Battery is charging. **Blinking Amber:** Waiting to charge. **Solid Green:** Fully Charged.
Display/Screen	Tap screen displays all information to operate the device.
	Recent Apps key – Press to switch to, stop or manage applications currently running on the background of the device.

Table continued…

Item	Function
	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.
External Speakers	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.
3.5 mm Headset Port	Connects to headsets (3.5 mm plug). **NOTICE:** Do not 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 for LEX L10i* manual. **IMPORTANT:** The PTT is an optional feature that requires installation of software and system connection following the LEX L10i 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 device. Press to turn the screen on or off. Press and hold to select one of these options: • **Power On/Off** — Turn On/Off. • **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 are turned off. See Covert Mode on page 44. • **Vibrate mode** — Sets to vibrate only. • **Speaker on** — Routes the earpiece sound to the speaker.
Front Camera	Used to capture live video for video calls.

Table continued…

Item	Function
Earpiece	Provides audio in handset mode.
External Charging Contacts	Provides power to the device from cradles.
Battery Cover Removal Slot	Assists in battery cover removal to provide access to the battery, SIM, CRYPTR, and microSD card holders.
microUSB Port	Provides USB client and host communications.
Rear Camera and Flash	Takes photos and video, and provides flash illumination for the camera.

Unpacking

Carefully remove all protective material from the LEX L10i and save the shipping container for later storage and shipping.

Verify that the following were received:

- LEX L10i
- Battery Cover
- 2280 mAh Lithium-ion battery
- 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.

Setting Up the LEX L10i

The initial setup of the LEX L10i requires that the battery and any cards be installed.

NOTICE: The device 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 L10i for the first time, perform the following:

1. Remove the screen protection film from the LEX L10i screen. (See Removing the Screen Protective Film on page 34).
2. Install the public and/or Private SIM cards. (See Installing the Public and Private SIM Cards on page 36).
3. Install the microSD or CRYPTR card (optional). (See Installing a microSD or CRYPTR micro Encryption Card on page 35).
4. Install the battery. (See Installing the Battery on page 37).
5. Install the battery cover.
6. Charge the LEX L10i. (See Charging the LEX L10i on page 37).

Removing the Screen Protective Film

The LEX L10i is provided with a screen protective film that protects the device during shipping.

To enable proper operation of the LEX L10i, the screen protector must be removed before use.

Figure 3: Removing the Screen Protective Film

Removing the Battery Cover

This procedure explains how to remove the battery cover.

Procedure:

1. Hold the LEX L10i firmly as shown.
2. Using the battery cover removal slot, gently lift the battery cover up and away from the LEX L10i.

Figure 4: Removing the Battery Cover

Installing a microSD or CRYPTR micro Encryption Card

The LEX L10i 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 L10i. The LEX L10i 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 CRYPTR micro provides FIPS 140-2 Level 3 storage for credentials/keys for Data At Rest (DAR) encryption and MVPN. The slot of the card is located under the LEX L10i battery

When and where to use:

NOTICE: The LEX L10i 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 L10i, you must change the CRYPTR password provided by your technical support. This is not a password to access the device but a password to protect Motorola Solutions secure applications. The CRYPTR password is required whenever the LEX L10i 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

Removing the microSD or CRYPTR Card

This procedure explains how to remove a 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.

Installing the Public and Private SIM Cards

Public and private phone services require a Subscriber Identification Module (SIM) card.

Prerequisites: The SIM 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 L10i.
- Any additional subscribed services.

NOTICE: The LEX L10i 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 37.
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

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. Tap **Power Off**.
3. Tap **OK**.
4. Lift the battery cover.

5 Slide the battery latch to **Unlock** position.
6 Lift the battery out of the LEX L10i.
7 Push the SIM card to release it from the holder.
8 Remove the SIM card.
9 Place the battery back into the LEX L10i.
10 Snap the battery cover back into place.

Installing the Battery

When and where to use: Perform this procedure to install a 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 L10i.

Figure 7: Installing the Battery

3 Press the top of battery into place.
4 Place the battery cover into place.
5 Ensure that all battery cover snaps are fully engaged.

Removing the Battery

When and where to use: Perform 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 L10i
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 L10i.

Charging the LEX L10i

Before using the LEX L10i 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 L10i battery can also be charged by one of the optional charging cradles.

Figure 8: Charging the LEX L10i

NOTICE: Keep the USB cover closed when USB not in use.

NOTICE: For detailed description, installation and operation of the LEX L10i accessories, refer the quick start guides provided with each accessory.

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 L10i.

To accomplish this, for small periods of time, the LEX L10i alternately enables and disables battery charging to keep the battery at acceptable temperatures. The LEX L10i LED indicates when charging is disabled due to abnormal temperatures by fast blinking amber (once every 2 seconds).

Battery Charge Indications

The Charge and Notification LED is located at the top, front of the LEX L10i.

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

NOTICE: Before checking the battery charge level, remove the LEX L10i 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:

Table continued…

Status	Indications
	• Device is not inserted correctly in the cradle • Device 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 L10i 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	Device 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)	Device is charging and a new notification is received.
Alternately blinking blue (1 second) and green (3 seconds)	Device 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)	Device 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**.

Battery Management

This topic explains how to check the status of your battery and what you can do to make your battery last longer.

NOTICE: Before checking the battery charge level, remove the LEX L10i 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).

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.

Low Battery Notification

When the battery charge level drops below 20%, the LEX L10i displays a notice to connect the LEX L10i 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 L10i displays a notice to connect the LEX L10i to power. The user must charge the battery using one of the charging accessories.

When the battery charge drops below 4%, the LEX L10i turns off. Anytime the user then tries to power on the LEX L10i, the following screen appears.

Figure 12: Battery Depleted Screen

The user must charge the LEX L10i using one of the charging accessories to retain data.

Battery Optimization

Observe the following battery saving tips:

- Leave the LEX L10i inside a cradle connected to AC power at all times when not in use.
- Turn off Bluetooth if not needed.
- Turn off Wi-Fi if not needed.
- Change screen time-out to as short as possible.

- Charge the LEX L10i 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 L10i from suspending, for example, music or video applications.

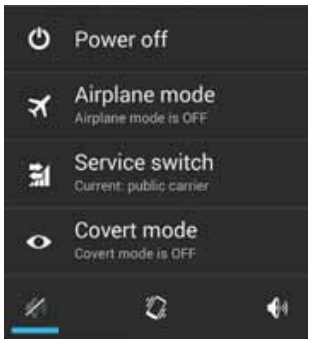
Turning Off the Radio

When and where to use: Use this procedure to turn off the LEX L10i 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.

Powering On the LEX L10i for the First Time

Press the **Power** button to turn on the LEX L10i. The device boot screen displays as the LEX L10i boots.

Figure 14: LEX L10i Boot Screen

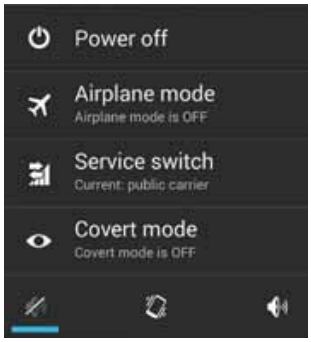
Powering Off the LEX L10i

When and where to use: Use this procedure to power off the LEX L10i.

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.

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 L10i that are not in use. The LEX L10i 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 L10i screen turns off.

   NOTICE: 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.

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: → → **Display** → **Sleep**.
2. Select the inactivity duration before **Suspend** mode becomes active.
3. Tap .

Covert Mode

In the **Covert Mode**, the LEX L10i goes dark and quiet. All visible and audible LEX L10i alerts and notifications are shut down. This feature makes the LEX L10i effectively unnoticeable even in a silent and dark environment.

In **Covert Mode**, the following sounds, visual indications, and keys of the LEX L10i are disabled:

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

  NOTICE: 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 L10i earpiece.
- Tone indications

NOTICE: 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

Turning On Covert Mode

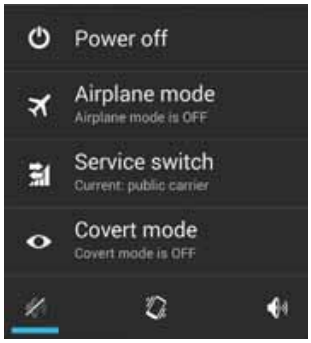
When and where to use: Use this procedure to turn on **Covert Mode**.

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 L10i screen goes blank.

Turning Off Covert Mode

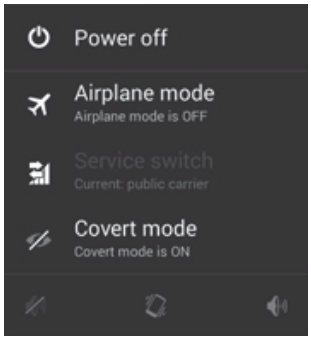
When and where to use: Use this procedure to turn off **Covert Mode**.

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.

Locking the LEX L10i

The lock screen automatically displays after predefined time out to prevent unauthorized people from using the device. The device does not lock at the same time as it is suspended. The device 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 device, press and release the **Power** button. When the device is locked and cellular network signal is available, phone calls, notification of new messages, missed calls and upcoming appointments still can be received. The device locks after a specified time.

Selecting a Locking Option

When and where to use: Security dictates a specific level of locking for the LEX L10i. Use this procedure to select a locking option.

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 L10i is now set to lock.

Postrequisites: Specify a pattern as described in Specifying a Pattern on page 47 Specify a pin, or password as described in Specifying a PIN or Password on page 47. Then, specify a timeout value as described in Setting the Timeout for Locking the LEX L10i on page 47.

Specifying a Pattern

Prerequisites: The **Pattern** option must be selected for **Screen lock**.

When and where to use: Use this procedure to specify a pattern to unlock your LEX L10i.

Procedure:

1. Tap .
2. Tap .
3. Tap **Security lock**.
4. Select **Pattern**.
5. Using a finger, draw a pattern to unlock your LEX L10i
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 L10i.

Specifying a PIN or Password

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

When and where to use: Use this procedure to specify a PIN or password to unlock your LEX L10i.

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 L10i.

Setting the Timeout for Locking the LEX L10i

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

When and where to use: Use this procedure to set the timeout value to lock the LEX L10i.

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.

Unlocking the LEX L10i

When the LEX L10i 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.

Unlocking the LEX L10i Using a Pattern

When and where to use: Use this procedure to unlock the LEX L10i 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 device unlocks.

Unlocking the LEX L10i Using a PIN or Password

When and where to use: Use this procedure to unlock the LEX L10i 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 device unlocks and the **Home** screen is shown.

Calling Emergency from a Locked LEX L10i

You can make an emergency call even when the LEX L10i is locked and you do not remember the PIN.

When and where to use: Use this procedure to make an emergency call when the device 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 .

Setting the Date and Time

When the LEX L10i 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 .

Setting the Display

The following LEX L10i display features can be customized:

- Brightness — Set the brightness of the display.
- Auto-rotate — Set the content to rotate automatically when the device is turned.
- Sleep — Set the length of time the device waits before turning off the display's backlight.
- Daydream — Set the device to launch a screensaver when the device is docked inside a cradle or charging.

- Font size — Change the font size for display text.
- Cast screen — Enable the device to project the screen to a TV or other device.

Setting Screen Brightness

When and where to use: Use this procedure 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 .

Setting Screen Rotation

Screen rotation enables the LEX L10i to automatically determine the orientation of the screen to portrait or landscape.

When and where to use: Use this procedure when you want to set your screen to automatically rotate:

Procedure:

1. **NOTICE:** 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 L10i is rotated.

   NOTICE: The **Home** screen does not rotate.
5. Tap .

Setting Up Sleep Mode

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 .

Setting Up Daydream

When and where to use: The Daydream application behaves as a screensaver when the LEX L10i is docked inside a cradle and/or in sleep mode. Use this procedure to set up a screensaver.

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 .

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 .

Enabling Cast Screen

When and where to use: Use this procedure to enable the LEX L10i to project the its screen to a TV or other device.

Procedure:

1 From the **Home** screen, tap .
2 Tap .
3 Tap **Display**.
4 Tap **Cast screen.**
5 Tap .
6 Select **Enable wireless display**.

Projecting the LEX L10i Screen on Another Device

Prerequisites: The **Cast screen** must be enabled.

When and where to use: Use this procedure to project the LEX L10i screen on another device.

Procedure:

1 From the **Home** screen, tap .
2 Tap .
3 Tap **Display**.
4 Tap **Cast screen**.
5 Select the device to show your device screen on.

   Your device should now display on the other device.

6 To stop projecting your device screen, swipe down from the **Status** bar and tap **Disconnect** under **Cast screen**.

General Sound Setting

Use the **Sounds** settings to configure media and alarm volumes.

On the **Home** screen, tap → → **Sound**.

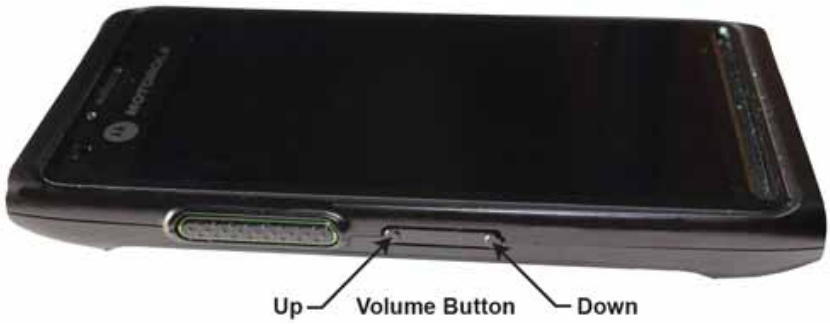
Alternately, open the **Notification** panel and tap → **Settings** → **Sound**.

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.

    NOTICE: 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 device 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 device 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.

Public and Private Carrier Modes

The LEX L10i operates on both public and private carriers.

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.

The LEX 10i Mission Critical LTE Handheld operates in:

- **4G LTE Bands:** 3, 4, 5, 7, 8, 20, 26, 28
- **3G/UMTS Bands:** 1, 2, 4, 5, 8 Quad Band
- **GSM:** 850 MHz, 900 MHz, 1800 MHz, 1900 MHz
- **802.11 a/b/g/n Wi-Fi and Miracast**

Switching Modes Using the Power Button

When the LEX L10i is equipped with Private and Public SIM cards, the **Power** button can be used to switch modes.

Prerequisites: The LEX L10i is equipped with Private and Public enabled SIM cards.

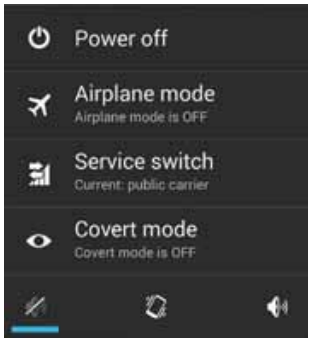
When and where to use: Use this procedure to switch modes using the power button.

NOTICE: 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

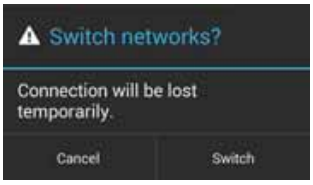


The current carrier mode is indicated under the **Service switch** option.

2 Tap **Service switch**.

A confirmation popup is displayed.

Figure 21: Switch Networks Confirmation Popup



3 Tap **Switch**.

Switching Modes Using the Settings App

When the LEX L10i is equipped with Private and Public SIM cards, the **Settings** application can be used to switch modes.

Prerequisites: The LEX L10i is equipped with Private and Public enabled SIM cards.

When and where to use: Use this procedure to switch modes using the setting applications.

NOTICE: 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...** .

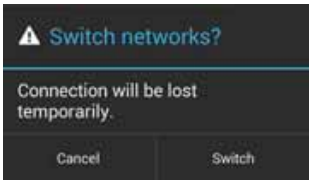
4 Tap **Mobile networks**.

5 Tap **Select network**.

6 Select **Public** or **Private**.

A confirmation popup is displayed.

Figure 22: Switch Networks Confirmation Popup



7 Tap **Switch**.

LEX L10i Emergency Button

The LEX L10i includes an **Emergency Button** which aids responders during emergencies. This feature helps reduce response times in an emergency situation.

The device must be pre-configured based on the responder's specific requirements before it is given to a user. Once the device is configured to use the **Emergency Button**, users can access the actions by swiping the **Home** screen icon up to access the **Home** screen overlay.

The **Emergency Button** supports the following actions:

- Initiate a phone call — The **Emergency Button** can be pre-configured to initiate an E911 call or to initiate a call to a customized phone number.
- Send an SMS notification (with/without GPS) — The **Emergency Button** can be pre-configured to send an SMS notification to customized numbers. Location coordinates (if available) of LTE handset and information about paired (if paired) Land Mobile Radio (LMR) is also sent as part of the text message.
- Initiate a phone call and send an SMS notification (with/without GPS) — The **Emergency Button** can be pre-configured to perform both of the above actions.

NOTICE: You are required to have a voice and text plan to initiate calls and send SMS notifications.

Chapter 3

Using the LEX L10i

This chapter explains the indicators, buttons, status icons, and controls on the LEX L10i. This chapter also provides basic instructions for using the device.

Using the Touchscreen

The multi-tap sensitive screen is used to operate the LEX L10i.

Table 3: Using the Touchscreen

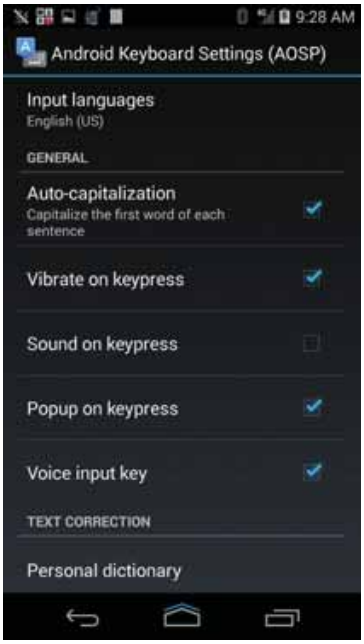
Action	Result
Tap	Tap to: • select items on the screen • type letters and symbols using the on-screen keyboard • press on-screen buttons
Tap and Hold	Tap and hold: • an item on the **Home** screen to move it to a new location or to the trash • an item in **Apps** to create a shortcut on the **Home** screen • 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.
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).

Using the On-Screen Keyboard

The on-screen keyboard is used 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 23: Android Keyboard Settings



A description of the settings can be found in Android Keyboard Settings on page 59.

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.

Android Keyboard Settings

The Android Keyboard Settings may be personalized to meet your preferences.

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 device when a key is pressed.
Sound on keypress	Makes a sound on the device 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.

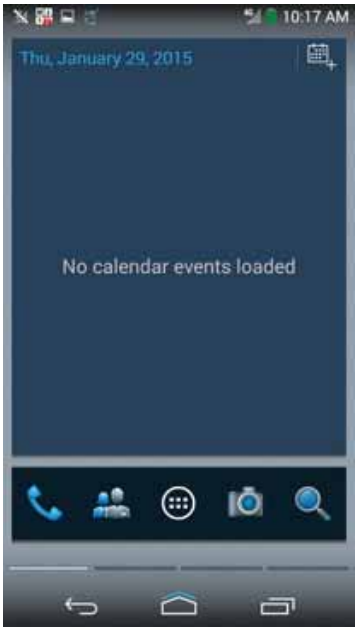
Motorola Solutions Home Experience (MHx)

The Motorola Solutions Home Experience (MHx) is the engine that drives the user interface of the LEX L10i. Specifically, MHx provides a unique experience for customizing the LEX L10i **Home** screen.

LEX L10i Home Screen

The **Home** screen displays after the LEX L10i turns on and unlocks.

Figure 24: Default Home Screen



The **Home** screen is completely customizable depending on the specifications for your agency. Each organization may have a different **Home** screen. The Radio Manager (RM) Tool, described in the *LEX L10i Service Provisioning Guide*, can be used to stage the **Home** screen on your devices.

NOTICE: When CRYPTR Card is used, the device requires setting a password after initial boot and entering this password whenever the device restarts. This is not a password to access the device but a password to protect Motorola Solutions secure applications.

After suspend mode 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.

NOTICE: 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 L10i.

The **Home** screen consists of the following items:

- Core Applications Widget — Provides shortcuts such as:
  - Phone Dialer
  - Contacts
  - Application Launcher
  - Camera
  - Search Feature

- Other shortcuts determined by your agency

- Calendar Widget
- email Widget
- Messaging Widget
- Search Widget
- My Apps Widget
- Other Widgets determined by your agency
- 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.

Home Screen Overlay

The **Home** screen overlay provides quick access to core functions (**Emergency Button**). Swipe the **Home** screen up from the icon to access the **Home** screen overlay.

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

Adding Widgets

Widgets are applications that run on your **Home** screen.

When and where to use: Use this procedure 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 25: Widgets Screen

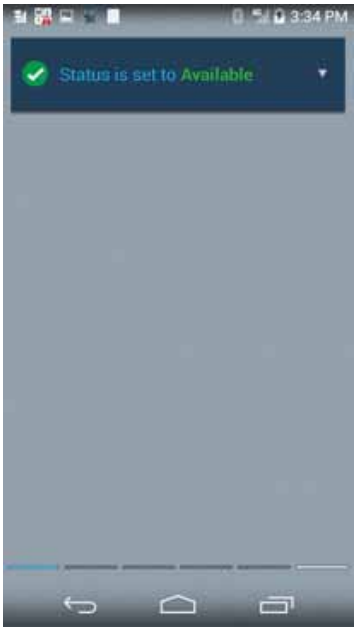
NOTICE: To identify Motorola Solutions Widgets, their names are preceded by MHx.

4 The **Widgets** screen contains multiple 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 26: Example of a Widget Added to New Panel



NOTICE: Some widgets are re-sizable as soon as you place it in a panel. Press and hold the widget. If the re-size tool displays (four dots, one on each side of the widget), you can re-size the widget by dragging the dots on the re-size tool.

Adding Shortcuts to the My Apps Widget

The **My Apps** widget is a special MHx widget where you can add shortcuts for quick access.

Prerequisites: Before adding shortcuts, the **My Apps** widget must be added to the **Home** screen.

When and where to use: An empty **My Apps** needs shortcuts to be functional. Use this procedure to add shortcuts to the **My Apps** widget.

Procedure:

1. Add **My Apps** widget as described inAdding Widgets on page 61.

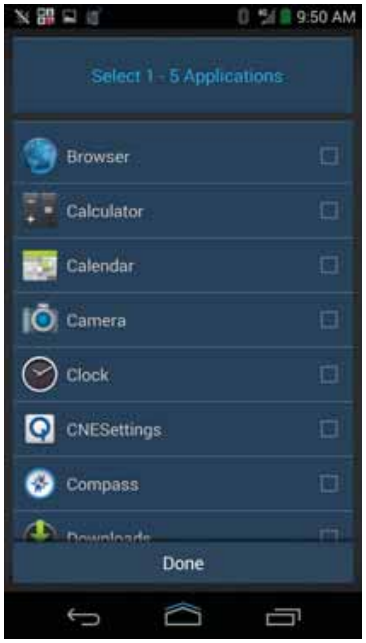
   An empty **My Apps** widget displays.

Figure 27: Empty My Apps Widget

2 Tap the **My Apps** widget to add shortcuts to it.

A screen with a list of shortcuts is displayed.

Figure 28: 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 29: My Apps Widget with Shortcuts Added

Changing My Status

When and where to use: Perform this procedure to set the status of the LEX L10i 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.

NOTICE: The **My Status** widget must be added before it is visible in the **Home** screen. The **My Status** widget is used in conjunction with the UNS System from Motorola Solutions or when you have WAVE 7000. One of these systems must be active before **My Status** will work properly.

Procedure:

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

Figure 30: My Status Widget

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

Figure 31: Status Selection

2 Tap one of the status states.

Status is immediately set to the selected state.

Moving Widgets

When and where to use: Use this procedure to move (relocate) widgets on the **Home** screen.

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.

Removing Widgets

When and where to use: Use this procedure to remove or clear space on your **Home** screen.

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 and your finger is directly above **X Remove**; then, release the widget.

The widget is removed from the panel.

NOTICE: The widget is only removed from the panel. It is not deleted from the LEX L10i.

Example of a Customized Home Screen Panel

This topic shows you an example of a customized **Home** screen panel.

Figure 32: 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**

Status Bar

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

Figure 33: Status Bar

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

Notification Icons

Notification icons alert you when a notification has been received.

Table 5: Notification Icons

Icon	Description
	Indicates that more notifications are available for viewing.
	Indicates that data is syncing.
	Indicates an incoming email.
	Converged Services notification. This icon has four parts: location services (top left), radio services (top right), priority manager (bottom left), and presence service (bottom right).
	Converged Services error notification. The triangle with the exclamation point inside indicates an error. If an error is observed, the user can swipe down from the icon to reveal the error. An example is: Error: Unknown Proxy hostname
	Indicates location reporting service is enabled.
	Indicates the device 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 an open Wi-Fi network is available.
	Radio Services application is on.
	Indicates a song is playing.
	Indicates a problem with sign-in or sync has occurred.
	Indicates the device is uploading data.

Table continued…

Icon	Description
	Indicates the microSD card is almost full.
	Indicates the device is downloading data when animated and download is complete when static.
	Indicates the device is connected via USB cable.
	Indicates the device is connected to or disconnected from virtual private network (VPN).
	Preparing SD card.
	Indicates no SIM is installed.
	Indicates the USB debugging is enabled on the LEX L10i.
	Indicates the device has received a text message.
	Indicates a missed call.
	Indicates tethering is active for Bluetooth or USB. Also used to indicate a Wi-Fi hotspot is active.
	Screenshot captured.
	Indicates that Wi-Fi hotspot is active.
	My Status indicates device is available.
	My Status indicates device is busy.

LEX L10i Status Icons

Status icons give you status information on actions occurring on your LEX L10i.

Table 6: Status Icons

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

Table continued…

Icon	Description
	Indicates all sounds except media and alarms are silenced and vibrate mode is active.
	Indicates the ringer is silenced.
	Microphone is muted during a call.
	Indicates the battery is fully charged.
	Indicates the battery is partially drained.
	Indicates the battery charge is low.
	Indicates the battery charge is very low.
	Indicates the battery charge is low.
	Indicates the battery is charging.
	Indicates the **Airplane Mode** is active. All radios are turned off.
	Indicates Bluetooth is on.
	Set to operate on Private network.
	Connected to a Wi-Fi network.
	No Wi-Fi signal.
	Mobile network signal strength.
	No mobile network signal.
4G	Connected to a 4G network.
3G	Connected to a 3G network.
R	Roaming from a network.
	No SIM card installed.

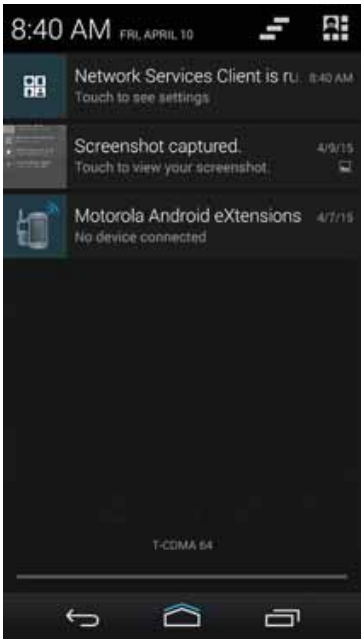
Managing Notifications

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 69 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 34: 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 tap . All event-based notifications are removed. Ongoing notifications remain in the list.

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

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

Working with Status

LEX L10i 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 L10i 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 L10i users. The **Available** status:

- Is the default “sign-on” state
- Indicates the LEX L10i user is willing to send and receive calls

The **Busy** status indicates that the LEX L10i user is busy but the LEX L10i is still able to send and receive calls.

Status of Contacts

The status of LEX L10i 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 device contacts.

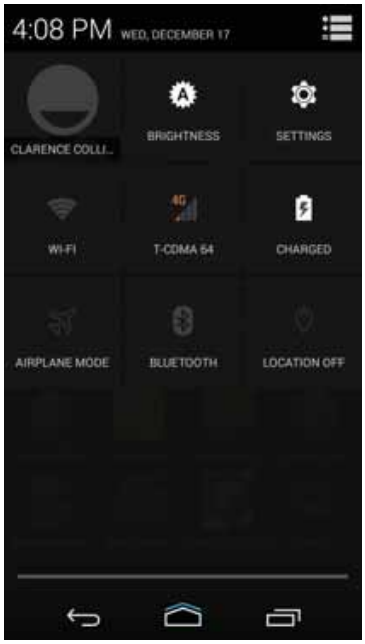
Quick Settings

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

You can use one of two methods:

- With two fingers, drag the **Status Bar** panel down to display the **Quick Settings** panel.
- 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 35: 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.
- **Wi-Fi** — Displays the current Wi-Fi connection. Tap to open the **Wi-Fi** 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 .

Applications

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

Table 7: Applications

Icon	Description
	AOSP Browser — Use to access the Internet or agency intranet.
	Calculator — Provides the basic and scientific arithmetic functions.
	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.
	Dialer — Use to make phone calls. See Calling on page 79 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 L10i.
	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 95 for more information.

Table continued…

Icon	Description
	Motorola Device Management — Enables staging and management of the device for initial use by initiating the deployment of settings, firmware, and software from a server. For more information, see the *LEX 10i Service Provisioning Guide*.
	Motorola TechDocs — Use to view device on-device documentation.
	MVPN — Enables the Motorola Solutions Mobile VPN (MVPN).
	Movie Studio — Use to combine existing videos.
	Music — Access music stored on the device.
	My Status — Use to view the current availability of the user and device to other agency users and system.
	People — Use to manage contact information.
	Push-To-Talk — Enables Push-to-Talk services over a broadband network and interconnected to Project 25 Land Mobile Radio (LMR) networks to enable PTT interoperability between broadband and P25 radio users (available only if PTT application is installed and activated on the LEX 10i).
	Radio Services — Use to pair Operations Critical Wireless Push-to-Talk (PTT) Pod.
	Radio Management Link Client — Enables connecting the device to a remote host computer for staging, firmware installation, application installation, and application removal by technical support. See the *Radio Management Online Help* for more information on the RM Tool.
	Search — Searches the device for an App or feature, Also searches the Web using Google Search.
	Settings — Use to configure the device.
	Software Licensing — Licensing for software installed on the device.
	Sound Recorder — Use to record audio.
	Voice Dialer — Use to place calls by speaking.

Folders

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

Creating a Folder

When and where to use: Use a procedure to create a folder on the **Home** screen.

NOTICE: There must be a minimum of two app icons to create a folder.

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.

Naming Folders

When and where to use: Use this procedure to name folders. You can give folders a name after they are created.

Procedure:

1. Tap the folder.

   Figure 36: 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 37: Named Folder

Removing a Folder

When and where to use: When a folder is no longer needed, you can remove it. Use this procedure to remove 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.

Accessing Files from a Computer

When and where to use: Use this procedure to allow access to files from your computer using MTP (media device) or using PTP (camera software).

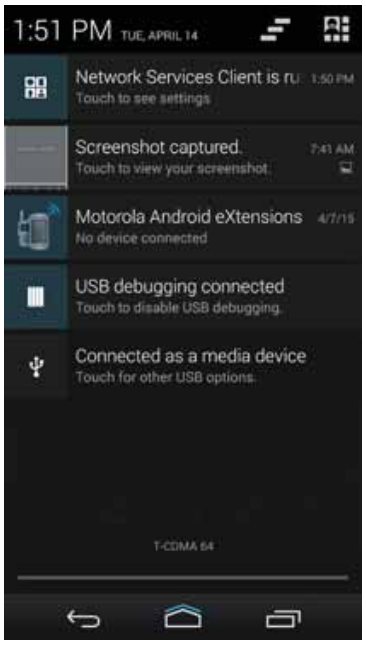
Procedure:

1 Connect the device to your computer using a USB cable.

If one of the following messages is displayed in the notification area (top of screen): **Connected as a media device** or **Connected as a camera**, you already have access to the files on your device.

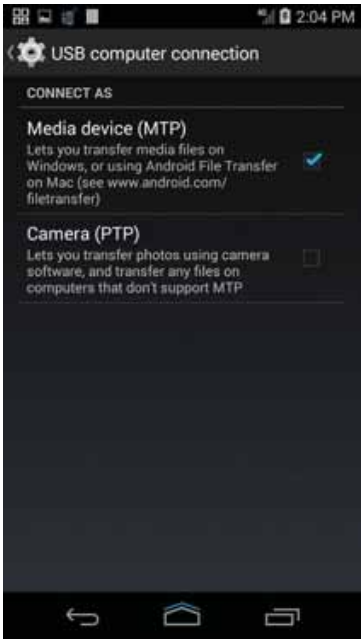
2 Swipe down from the **Status Bar**.

Figure 38: Notifications Screen



3 Tap the notification that has a **Touch for other USB options** subtitle (in this case **Connected as a media device**).

Figure 39: MTP / PTP Selection Screen



4 Select **Media device (MTP)** to access media files from a Windows computer or **Camera (PTP)** to access photos / files on a computer that does not support MTP.

5 Tap ↩ to return to the previous screen.

Chapter 4

Calling

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

Push-To-Talk (PTT) Calling

The handheld must be provisioned for PTT services on a Motorola Solutions PTT server. To make PTT calls and how to receive PTT calls on the LEX 10i, see *Push-To-Talk for LEX L10i* manual.

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 L10i to enable preset emergency numbers stored on it.

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

The LEX L10i pre-programmed emergency numbers 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 device is in private mode or public mode. For example, if the device is in private mode, you must switch to public mode before you can call numbers that are not included in the private network. To switch modes, see Switching Modes Using the Power Button on page 54 and Switching Modes Using the Settings App on page 55.

NOTICE: If your device is licensed for these options, see *LEX L10i Service Provisioning Guide* to set up other emergency alert methods.

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 and 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 Pairing LEX L10i with Bluetooth Accessory on page 91 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 40: Insert Wired Headset Plug

NOTICE: The headset cover must be properly seated after removing the 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.

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

Making a Call Using the Dialer

When and where to use: Use this procedure to make a call using the dialer tab to dial phone numbers.

Procedure:

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

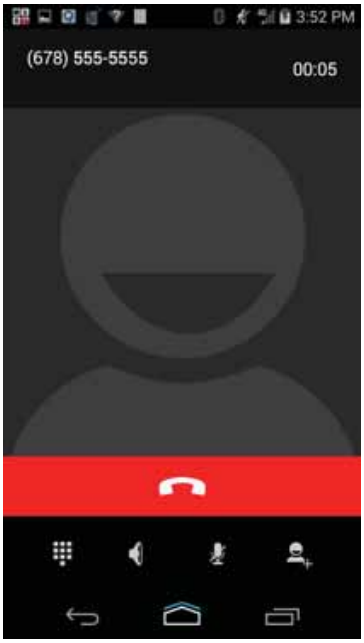
Figure 41: Dialer Screen

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 42: 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.

Making a Call Using People List Contacts

When and where to use: Use this procedure to make a call using people list contacts to initiate a call.

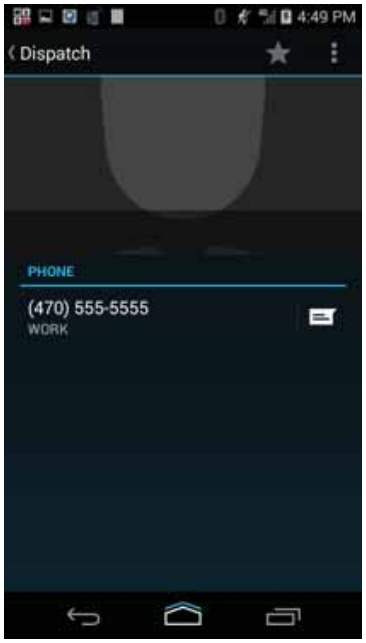
Procedure:

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 10i).

Figure 43: People List Contact



4 Tap the phone number next to the contact to initiate the call.

5 Tap to end the call.

Making a Call Using Call History

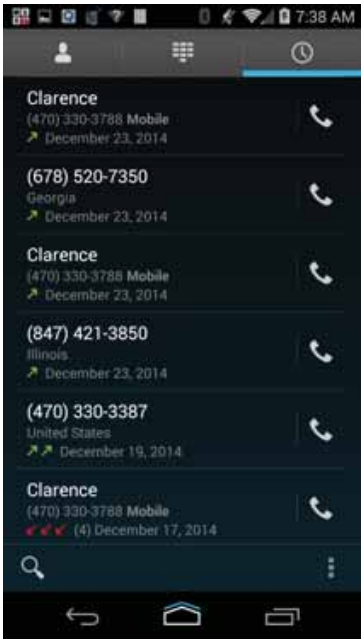
When and where to use: Use this procedure to make a call using call history. Call History is a list of all the calls placed, received, or missed. It provides a convenient way to redial a number, return a call, or add a number to Contacts.

Procedure:

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

2 Tap the tab.

Figure 44: Call History Tab



3 Tap next to the contact to initiate the call.

4 Tap to end the call.

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

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

Making a Conference Call

When and where to use: Conference calling is available if you have two or more people you wish to have a conversation with at the same time. Use this procedure to create a conference phone session with multiple people.

NOTICE: 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 .

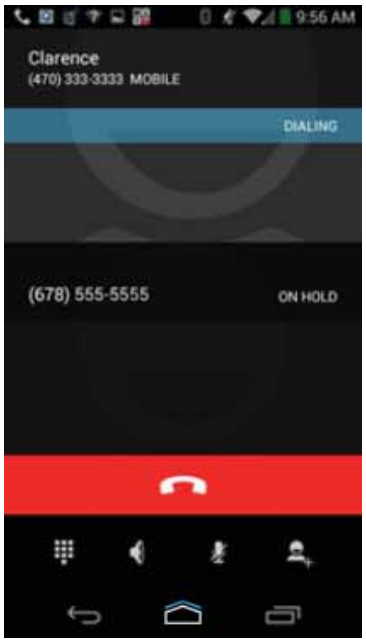
The first call is placed on hold.

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 45: Two Calls



The screen quickly changes to:

Figure 46: Two Calls Connected

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

Figure 47: 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.

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.

NOTICE: To connect a Bluetooth headset to the LEX L10i, see Pairing LEX L10i with Bluetooth Accessory on page 91.

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 L10i.

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.

Call Settings

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

NOTICE: Not all options are available for all configurations.

- **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).

    NOTICE: 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 L10i to send and receive calls. Plug the TTY device into the LEX L10i headset jack and set the device to operate in one of the TTY modes.

  NOTICE: Use a TSB-121 compliant cable (provided by the TTY manufacturer) to connect the TTY device to the LEX L10i.

  Set the device 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 L10i should be at least 30 cm (12 inches) from the TTY device. Placing the device 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.

Requesting an Emergency Alert

This emergency alert procedure is used to indicate a critical situation.

When and where to use: Use this procedure to trigger an emergency alert on the LEX L10i.

Procedure:

1. Swipe up from the icon.
2. Tap **Activate Emergency**.

   A popup displays giving you 2 seconds to cancel the emergency alert. The emergency number programmed in the LEX L10i device is dialed. See *LEX L10i Service Provisioning Guide* or configuration details.

Figure 48: Emergency Alert Activation Popup

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Chapter 5

Radio Services

Radio Services for LEX 10i

The **Radio Services** is a free application available on the device and enables a LEX L10i to connect with a Motorola Operations Critical Wireless (OCW) Push-to-talk Pod (NNTN8127) and Bluetooth-enabled device (accessory) through a wireless Bluetooth connection.

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 shortrange (10 meters (32.8 feet) communication and low power consumption.

Bluetooth operates within a range of 10 meters (32 feet) line of sight. This is an unobstructed path between your radio and your Bluetooth enabled device.

Pairing LEX L10i with Bluetooth Accessory

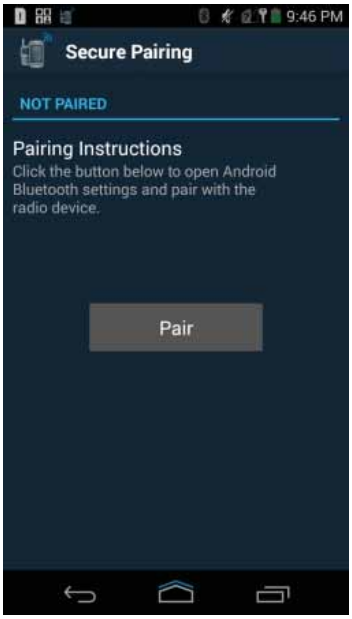
Prerequisites: Confirm Bluetooth is enabled on the LEX L10i device and Bluetooth-enabled device (accessory). To enable/disable Bluetooth on the LEX L10i, see Enabling Bluetooth on page 136 or Disabling Bluetooth on page 136. Once pairing is established, the range of connection is no more than 10 meters (32.8 feet) 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).

When and where to use: Use this procedure to pair a LEX L10i with a Bluetooth-enabled device (accessory) through a wireless Bluetooth connection.

Procedure:

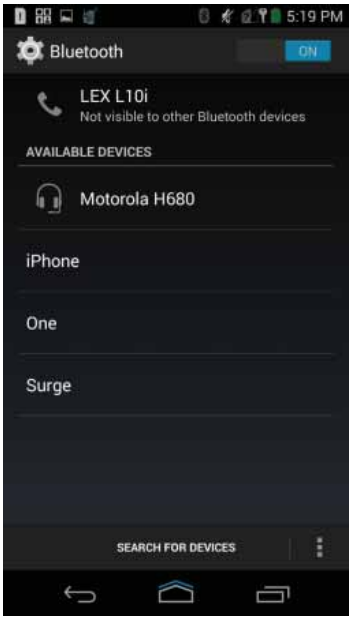
1. From the **Home** screen, tap
2. Tap .
3. In the **Secure Pairing** window, tap **Pair**.

Figure 49: Bluetooth Pairing Screen



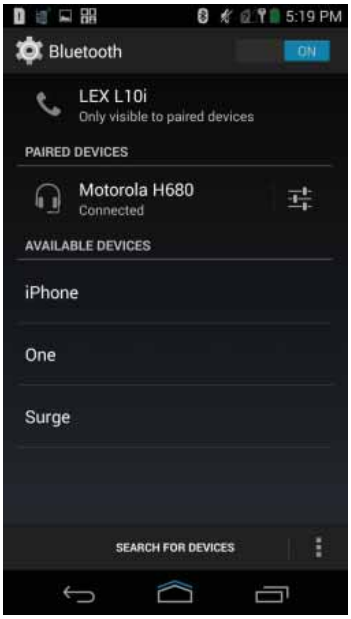
4 From the **Bluetooth** screen, in the **AVAILABLE DEVICES** section, tap an unconnected Bluetooth-enabled device (accessory).

Figure 50: Bluetooth Device Screen



5 In the **PAIRED DEVICES** section, the Bluetooth-enabled device is connected.

Figure 51: Bluetooth Paired Devices Screen



NOTICE: Your Bluetooth-enabled device (accessory) may require additional steps to complete the pairing. Refer to respective Bluetooth-enabled device (accessory) user manual.

Unpairing LEX L10i from Bluetooth Accessory

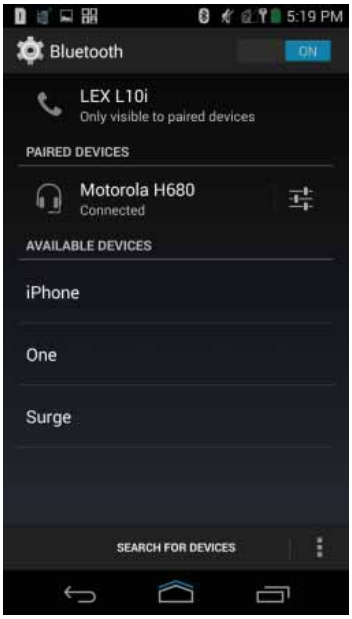
Prerequisites: The LEX L10i is unpaired with Bluetooth-enabled device (accessory).

When and where to use: Use this procedure to unpair the LEX L10i from a Bluetooth-enabled device (accessory).

Procedure:

1. From the **Home** screen, tap .
2. Tap .
3. From the **Settings** screen, tap **Bluetooth**.
4. From the **Bluetooth** screen, tap next to the device name.

Figure 52: Bluetooth Paired Devices



5 Tap **Unpair**.

Figure 53: Unpair Complete

Chapter 6

Messaging

Use Messaging to send and receive SMS and MMS messages.

From **Home** or **All Apps** screen, tap .

Sending a Text Message

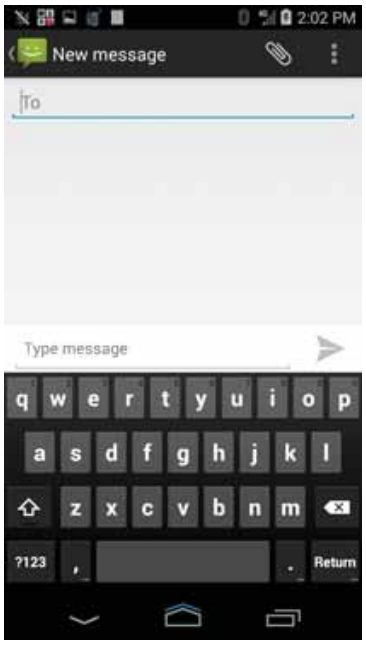
When and where to use: Use this procedure to send text messages.

Procedure:

1 In the main **Messaging** screen, tap .

The **New Message** screen displays.

Figure 54: 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.

Sending a Multimedia Message

When and where to use: Use this procedure to send multimedia messages.

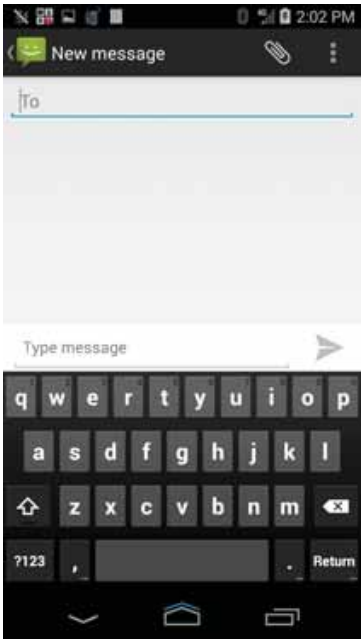
NOTICE: Multimedia messaging is only supported when the LEX L10i is in Public network mode.

Procedure:

1 In the main **Messaging** screen, tap .

The **New Multimedia Message** screen displays.

Figure 55: 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.

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Chapter 7

Applications

This chapter describes the applications installed on the LEX L10i.

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.

Using File Browser

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

To open **File Browser**, tap → .

Figure 56: 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.

Managing People Contacts

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.

Adding People

When and where to use: Use this procedure to add contacts.

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**.

Editing People

When and where to use: Use this procedure to edit contact information.

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**.

Deleting People

When and where to use: Use this procedure to delete contacts.

Procedure:

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

Camera

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

NOTICE: If a microSD card is installed, the LEX L10i saves photos and videos on the microSD card. If a microSD card is not installed, the LEX L10i saves photos and videos on the internal storage.

Figure 57: Camera Photo Screen

Table 8: 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.

Taking Photos

When and where to use: Use this procedure to take photos.

NOTICE: For camera settings, see Camera Settings on page 106.

Procedure:

1. From the **Home** screen, tap .
   The **Camera** screen is displayed.

Figure 58: Camera Screen

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

Figure 59: Camera Option Bar

3 Tap for settings.

4 Frame the subject on screen.

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

The zoom controls appear on the screen.

Figure 60: Camera Zoom

6 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.

Taking a Panoramic Photo

When and where to use: Use this procedure to create a single wide image by panning slowly across a scene.

Procedure:

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

2 Tap the **Camera Options** bar and tap .

Figure 61: Panoramic Mode

3 Frame one side of the scene to capture.

Figure 62: Panoramic Frame

4 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.

5 Tap to end the shot. The panorama is displayed and a progress indicator displays while it saves the image.

Recording Videos

When and where to use: Use this procedure to record videos.

Procedure:

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

2 Tap the **Camera Options** bar and tap .

   Figure 63: Video Mode

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

NOTICE: 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.

Camera Settings

When you are in **Photo** mode, photo settings are displayed on the screen.

Tap to display the photo settings options.

Figure 64: Camera Settings

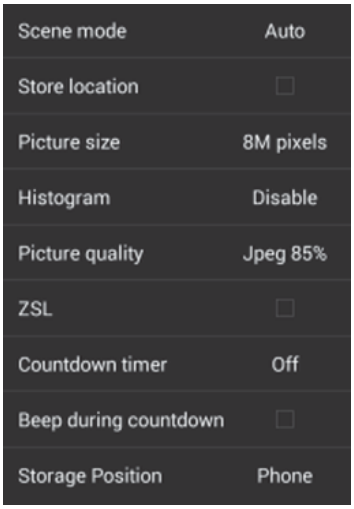
The available photo settings are (from left icon to right icon):

- Turn High Dynamic Range (**HDR**) on or off.
- Three screens of **More Options**. Settings for each option depend on the selected option. Click these icons to display more options. Some options require selecting a setting from a menu. Set these options accordingly.

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

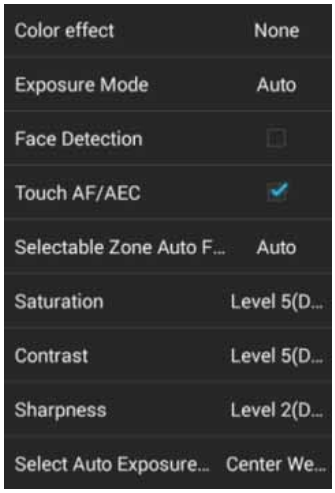
  - First **More Options** Screen.

Figure 65: First More Options Screen



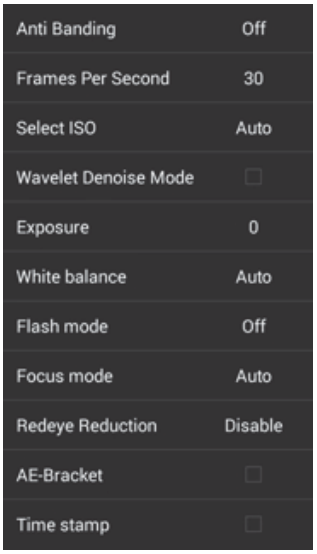
- Second **More Options** Screen.

Figure 66: Second More Options Screen



- Third **More Options** Screen.

Figure 67: Third More Options Screen

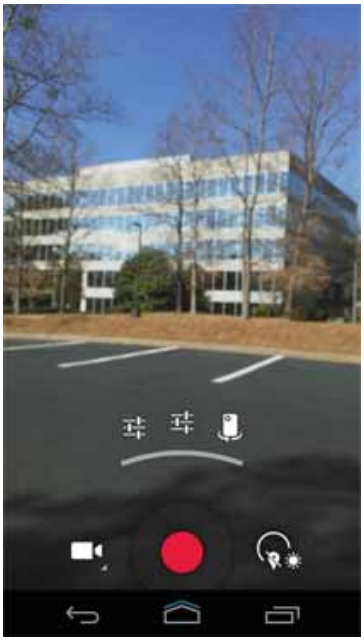


- Switch from front to rear camera or from rear to front camera.

Video Settings

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

Figure 68: Video Settings



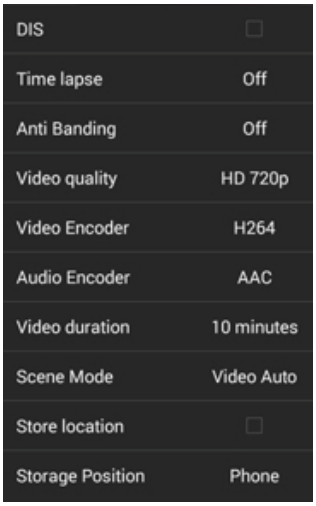
The available video settings are (from left icon to right icon):

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

  NOTICE: These options are similar to the video options seen on most cameras. Set the video options accordingly.

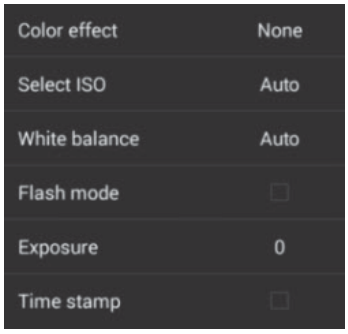
  - First **More Options** Screen.

    Figure 69: First More Options Video Screen



  - Second **More Options** Screen.

    Figure 70: Second More Options Video Screen



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

Gallery

The **Gallery** is used to manage your photos and videos.

NOTICE: 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 71: 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.

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 72: Photos/Videos Inside an Album

Swipe left or right to scroll images across the screen.

Sharing an Album

When and where to use: Use this procedure to share an album in your **Gallery**.

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.

Getting Album Information

When and where to use: Use this procedure to view information about an album.

Procedure:

1. Tap .
2. Tap .

3 Tap and hold an album until it highlights.
4 Tap ⋮.
5 Tap **Details**.

Deleting an Album

When and where to use: Use this procedure to delete an album that you no longer need.

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.

Working with Photos

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

Viewing and Browsing Photos

When and where to use: Use this procedure to view or browse photos that you have taken.

Procedure:

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

Figure 73: Photo Example

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

6 Turn the LEX L10i 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.

Rotating a Photo

When and where to use: Use this procedure to rotate 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.

Cropping a Photo

When and where to use: Use this procedure to crop 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 74: 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.

Setting a Photo as a Contact Icon

When and where to use: Use this procedure to set 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 114.
9 Tap **SAVE**.

Sharing a Photo

When and where to use: Use this procedure to share 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**).

Deleting a Photo

When and where to use: Use this procedure to delete 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.

Working with Videos

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

Watching a Video

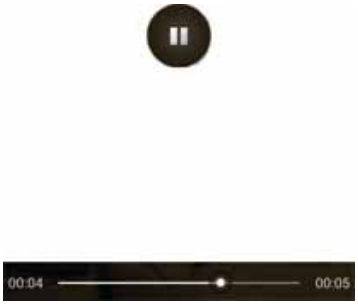
When and where to use: Use this procedure to watch a video.

Procedure:

1 Tap .
2 Tap .

3 Tap an album to open it.
4 Tap a video.
5 Tap .
The video begins to play.
6 Tap the screen to view the playback controls.

Figure 75: Video Playback Controls



7 Tap the **Pause** control.
8 Tap to return to the previous screen or to return to the **Home** screen.

Sharing a Video

When and where to use: Use this procedure to share 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.

Deleting a Video

When and where to use: Use this procedure to delete 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**.

Using Sound Recorder

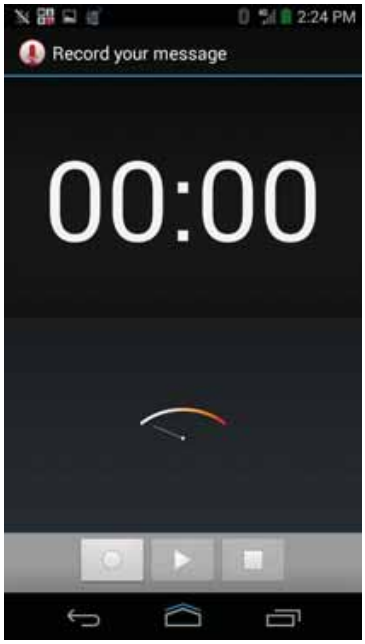
Use **Sound Recorder** to record audio messages.

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.

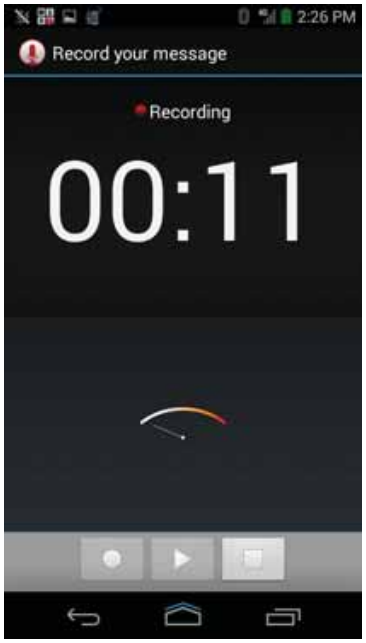
1 From the **Home** screen, tap .
2 Tap Sound Recorder.
3 Tap to start a recording.

Figure 76: Start Recording



4 Record your message.

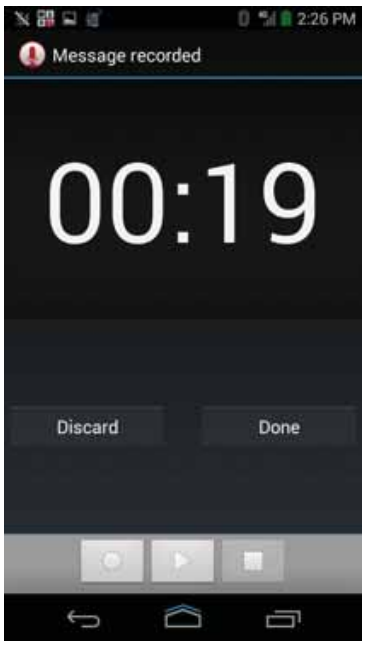
Figure 77: Record Your Message



5 Tap to stop recording.

6 Tap **Done** to save the recording.

Figure 78: Finish Recording



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.

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

2 Tap

or press the call button on a Bluetooth headset. The following window displays.

Figure 79: Voice Dialer Window

3 Say one of the following commands:

- Call
- Dial
- Redial
- Open

Calling a Person by Name

When and where to use: Use this procedure to call a person by name.

Procedure:

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

2 Tap

or press the call button on a Bluetooth headset.

3 Say the name of the person that you want to call (for example, John Doe).

4 In the **Voice Dialer** dialog box, tap **Call John Doe**.

The call is initiated.

Redialing a Previous Call

When and where to use: Use this procedure to redial a previous call.

Procedure:

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

2 Tap

or press the call button on a Bluetooth headset.

3 Say Redial.

4 In the **Voice Dialer** dialog box, tap **Redial**.

The call is initiated.

Dialing by Number

When and where to use: Use this procedure to dial a number using the phone number.

Procedure:

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

2 Tap

or press the call button on a Bluetooth headset.

3 Say **Dial<*[phone number]*>**.

4 In the **Voice Dialer** dialog box, tap the number that displays.

The call is initiated.

Opening an Application

When and where to use: Use this procedure to open an application.

Procedure:

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

2 Tap

or press the call button on a Bluetooth headset.

3 Say **Open<*[application name]*>**.

4 In the **Voice Dialer** dialog box, tap the application name.

The application opens.

Chapter 8

Wireless

This section provides information on the wireless features of the LEX L10i.

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

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

Sharing the Mobile Data Connection

The **Tethering & portable hotspot** settings allow you to share your data connection. You can share the LEX L10i 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 Wi-Fi hotspot. While the LEX L10i is sharing its data connection, an icon appears at the top of the screen and a corresponding message appears in the notification list.

Configuring USB Tethering

Use this procedure to share a data connection with a host computer.

NOTICE: 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.

NOTICE: After connecting the LEX L10i 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 L10i becomes the primary network adapter).

Procedure:

1. Connect the LEX L10i to a host computer with the USB cable.

Figure 80: 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 L10i data connection.

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

NOTICE: The USB cover needs to be fully seated after use.

Configuring Bluetooth Tethering

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

When and where to use: Use this procedure to tether Bluetooth to share the data connection with a host computer.

Procedure:

1 Pair the LEX L10i 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 L10i data connection.

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

Configuring Portable Wi-Fi Hotspot Settings

Prerequisites: Configure the **Wi-Fi Hotspot** settings.

When and where to use: Use this procedure to turn your LEX L10i into a portable Wi-Fi hotspot.

Procedure:

1 Tap .

2 Tap .

3 Tap **More ...** .

4 Tap **Tethering & portable hotspot**.

5 Select **Portable Wi-Fi hotspot**.

After a moment, the LEX L10i starts broadcasting its Wi-Fi 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 Wi-Fi hotspot**.

Configuring the Wi-Fi Hotspot

When and where to use: Use this procedure is used to configure a Wi-Fi hotspot.

Procedure:

1 Tap .

2 Tap .

3 Tap **More ...** .

4 Tap **Tethering & portable hotspot.**

5 Tap **Set up Wi-Fi hotspot**.

The **Set up Wi-Fi hotspot** screen displays.

Figure 81: Set up Wi-Fi 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.

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

9 Tap **Save**.

Data Usage

Data usage refers to the amount of data uploaded or downloaded by the LEX L10i 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.

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.

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**.

Disabling Data When Roaming

When and where to use: Use this procedure to prevent the LEX L10i 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 .

Limiting Data Connection to a Network

You can limit the device Private or Public services or extend the battery life by limiting the data connections to Global networks, LTE networks, or CDMA networks.

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

When and where to use: Use this procedure to limit data connection to a network.

Procedure:

1. Tap .
2. Tap .
3. Tap **More ...** .
4. Tap **Mobile networks**.
5. Tap **Network Mode**.
6. Select **Global mode**, **LTE only**, or **CDMA only** .
7. Tap .

Editing the Access Point Name

When and where to use: When network information needs to change, the user can edit the APN information.

NOTICE: Many service provider Access Point Name (APN) data are pre-configured in the LEX L10i.

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 .

Adding a Virtual Private Network (VPN)

A virtual private network (VPN) extends a private network across a public network. VPN enables the LEX L10i to communicate data across a public network while benefiting from the functionality and security of the private network. When connected by VPN, the LEX L10i establishes a virtual point-to-point connection through a dedicated virtual tunneling protocols or data encryption. TheLEX L10i 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 L10i (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 .

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 L10i.

Procedure:

1. Tap .
2. Tap .
3. Tap **More...** .
4. Tap **Cell broadcasts**.

5 Check the emergency alert types you want to receive.

6 Tap .

Wireless Local Area Networks

Wireless local area networks (WLANs) allow the LEX L10i to communicate wirelessly inside a building.

Before using the LEX L10i 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 L10i must both be properly configured to enable this communication.

See the documentation provided with the infrastructure (access points (APs), access ports, switches, Radius servers) 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 L10i to match the security scheme.

The LEX L10i supports the following WLAN security options:

- Open
- Wireless Equivalent Privacy (WEP)
- Wi-Fi 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 Wi-Fi network availability and Wi-Fi status.

NOTICE: Turn off Wi-Fi when not using it, to extend the life of the battery.

Scanning and Connecting to a Wi-Fi Network

When and where to use: Use this procedure to scan for and connect to a Wi-Fi network.

Procedure:

1 Tap .

2 Tap .

Figure 82: Settings Screen

3 Slide the **Wi-Fi** switch to the **ON** position.

4 Tap **Wi-Fi**. The LEX L10i searches for WLANs in the area and lists them.

Figure 83: Wi-Fi 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 L10i obtains a network address and other required information from the network using the dynamic host configuration protocol (DHCP) protocol.

7 In the **Wi-Fi** setting field, **Connected** displays indicating that the LEX L10i LEX L10i is connected to the WLAN.

Configuring a Wi-Fi Network

When and where to use: Use this procedure to configure a Wi-Fi network.

Procedure:

1 Tap .

2 Tap .

3 Tap **Wi-Fi**.

4 Slide the switch to the **ON** position.

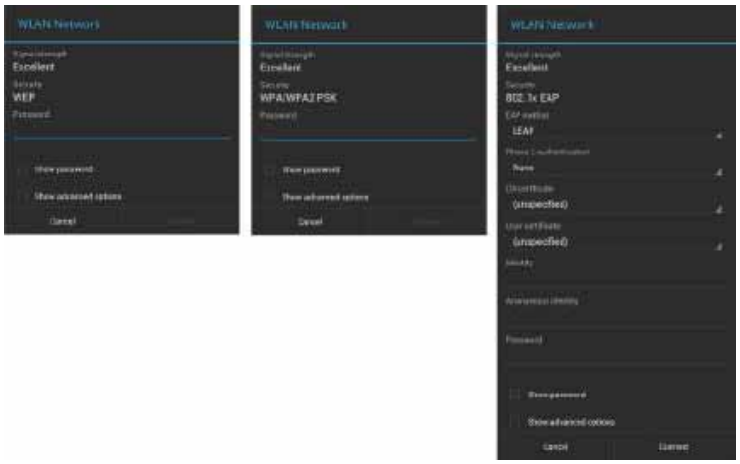
   The LEX L10i searches for WLANs in the area and lists them on the screen.

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

6 Tap the desired network.

   If the network security is **Open**, the LEX L10i automatically connects to the network. For all other network security a dialog box appears.

   Figure 84: WLAN Network Security Dialog Boxes



NOTICE: 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 .

Adding a Wi-Fi Network

When and where to use: You can add a Wi-Fi Network that is currently out of range or indiscoverable.

Procedure:

1 Tap .

2 Tap .

3 Tap **Wi-Fi**.

4 Slide the **Wi-Fi** switch to the **On** position.

5 Tap **+**.

6 Enter network SSID and select **Security**.

7 Tap **Save**.

The LEX L10i connects to the wireless network.

8 Tap .

Manually Adding a Wi-Fi Network

When and where to use: Use this procedure to manually add a Wi-Fi network if the network does not broadcast its name (SSID) or to add a Wi-Fi network when out of range.

Procedure:

1 Tap .

2 Tap .

3 Tap **Wi-Fi**.

4 Slide the **Wi-Fi** 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 Wi-Fi 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.

  NOTICE: Certificates are installed using the **Security** settings.
- Tap **User certificate** and select a user certificate.

  NOTICE: 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 .

Advanced Wi-Fi Settings

Use the **Advanced** settings to configure additional Wi-Fi settings.

NOTICE: Advanced Wi-Fi settings are for the device not for a specific wireless network.

From the **Wi-Fi** screen, tap → **Advanced** to view the advanced settings.

- **Network notification** — When enabled, notifies the user when an open network is available.
- **Keep Wi-Fi on during sleep** — Opens a menu to set whether and when the Wi-Fi 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).
- **Wi-Fi optimization** — Minimize the battery usage when Wi-Fi is on.
- **Avoid poor Connection** — Connects to the internet only if connection is good.
- **MAC address** — Displays the Media Access Control (MAC) address of the device when connecting to Wi-Fi networks.
- **IP address** — Displays the IP address of the device when connecting to Wi-Fi networks.

WLAN Configuration

Use the WLAN Configuration settings to configure additional WLAN settings.

From the **Wi-Fi** screen, tap ⋮ → **Advanced** to view the settings. The following two settings are used to configure WLAN:

- **Wi-Fi 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 Wi-Fi on during sleep**
  - **Always** — Wi-Fi is always enabled even in sleep mold.
  - **Only when plugged in** — Wi-Fi is enabled only when the device is plugged in. If the device is not plugged in, the device will not enter the sleep mold.
  - **Never (increases data usage)** — Wi-Fi is never disabled.

Modifying a Wi-Fi Network

The user can change settings and passwords for a network in the Wi-Fi list.

When and where to use: Use this procedure to modify a Wi-Fi network.

Procedure:

1. Tap .
2. Tap .
3. Tap **Wi-Fi**.
4. Slide the **Wi-Fi** 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 .

Removing a Wi-Fi Network

When and where to use: Use this procedure to remove a Wi-Fi network from your list of Wi-Fi networks.

Procedure:

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

Bluetooth Device

The LEX L10i supports Motorola Operations Critical Wireless (OCW) Push-to-talk Pod (NNTN8127) and Bluetooth-enabled device (accessory) through a wireless Bluetooth connection.

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.

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.

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

Bluetooth 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

Bluetooth Profiles

The LEX L10i 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 L10i to a printer.
- Human Interface Device Profile (HID) — Allows Bluetooth keyboards, pointing devices, gaming devices and remote monitoring devices to connect to the LEX L10i.
- Object Push Profile (OPP) — Allows the LEX L10i to push and pull objects to and from a push server.
- Dial-up Networking (DUN) — Allows the LEX L10i 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 L10i.
- Advanced Audio Distribution Profile (A2DP) — Allows the LEX L10i to stream stereo-quality audio to a wireless headset or wireless stereo speakers.
- Audio/Video Remote Control Profile (AVRCP) — Allows the LEX L10i 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.

Bluetooth Power States

The Bluetooth radio is off by default.

The following modes are available:

- **Suspend** — When the LEX L10i goes into suspend mode, the Bluetooth radio stays on.
- **Airplane Mode** — When the LEX L10i 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.

Bluetooth Radio Power for 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.

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

Enabling Bluetooth

When and where to use: Use this procedure to enable Bluetooth.

Procedure:

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

Disabling Bluetooth

Use this procedure to disable Bluetooth.

Procedure:

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

Changing the Bluetooth Name

By default, the LEX L10i has a generic Bluetooth name that is visible to other devices when connected.

When and where to use: Use this procedure to change the Bluetooth name.

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 .

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 L10i.

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 .

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Chapter 9

ADB and USB Driver Setup

This chapter describes how to set up the Android Debug Bridge (ADB) and USB driver for your Windows PC. The ADB and USB driver are required to perform Fastboot OS updates and to capture debug logs using ADB. They are also used to push files onto a device and for APK installation.

Required Software and Hardware

In order to install the ADB and USB driver, certain software and hardware requirements must be met.

- Hardware (one of the following)
  - Windows PC running Window 8
  - Windows PC running Window 7 32/64 bits
  - Windows PC running Windows XP SP3 with Micro-B USB Cable
- Software
  - LEX_L10.zip (contains ADB and USB drivers)
  - Android SDK (adb utility) installation procedure available at the following link: https://developer.android.com/sdk/installing/index.html?pkg=tools

Installing USB Driver and ADB

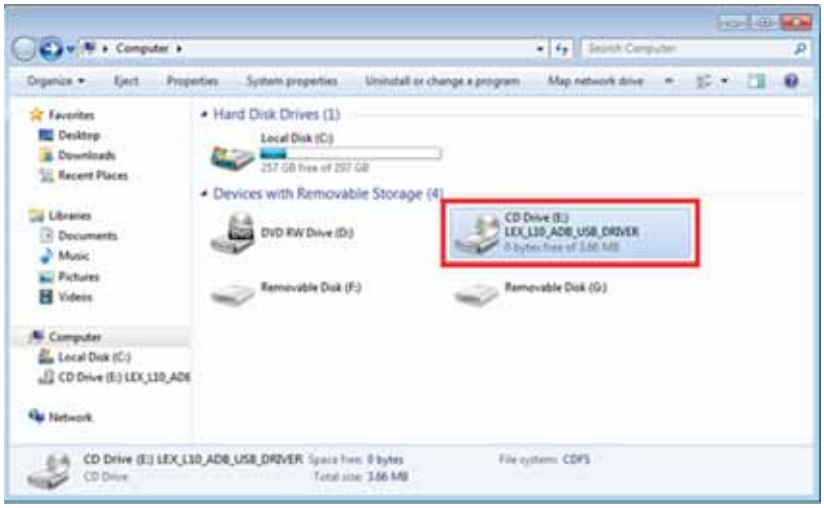
Prerequisites: Ensure all old USB drivers are removed before beginning this procedure.

When and where to use: Use this procedure to install the USB driver and ADB.

Procedure:

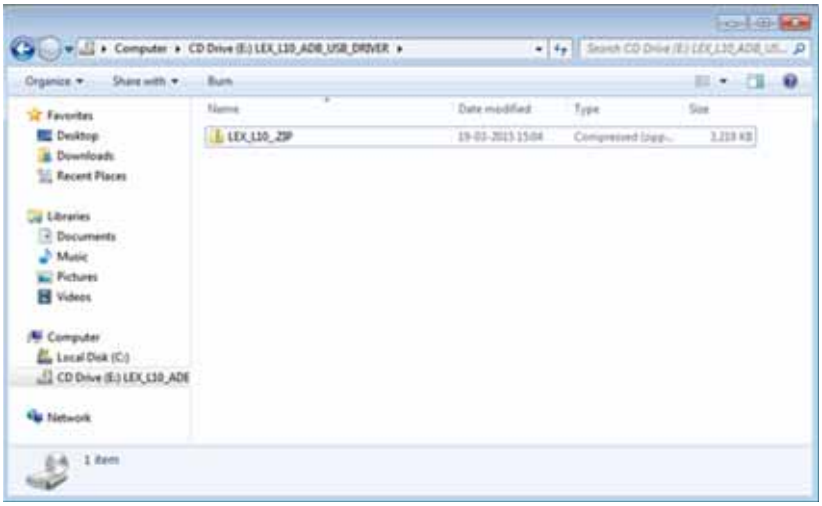
1. Insert the provided LEX L10i ADB USB Driver CD into a CD or DVD drive.
2. Click the **Start** button and select **Computer**.

   Figure 85: Access Computer



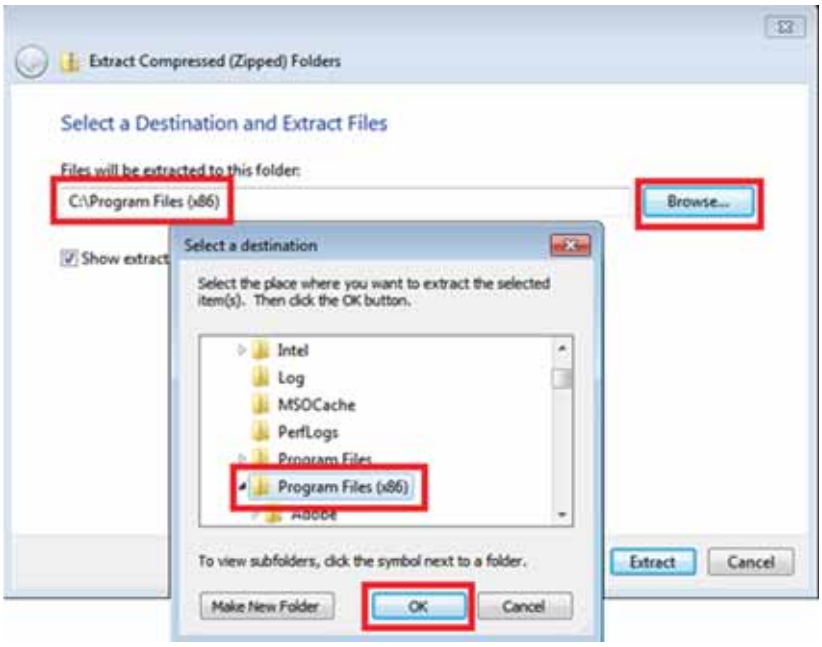
3 Open the CD drive and copy *LEX_L10.zip*to your desktop.

Figure 86: Access CD



4 Extract the *LEX_L10.zip* file copied on your desktop to *C:\Program Files (x86)* or any other location in your OS installation drive where you prefer to keep the driver, and then select **OK**.

Figure 87: Select Destination



5 Enable USB debugging in your device by:

a On the LEX L10i, navigate to **Settings** → **About Phone** and click the build number seven times to enable developer options.

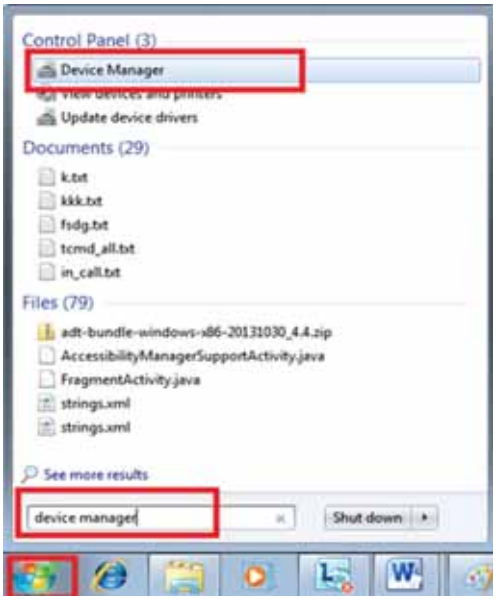
b Tap ↩ to return to **Settings**; then, tap **Developer options** and click the checkbox for **USB Debugging**.

c Click **OK** when prompted to allow USB debugging.

6 Configure the driver in the **Device Manager**.

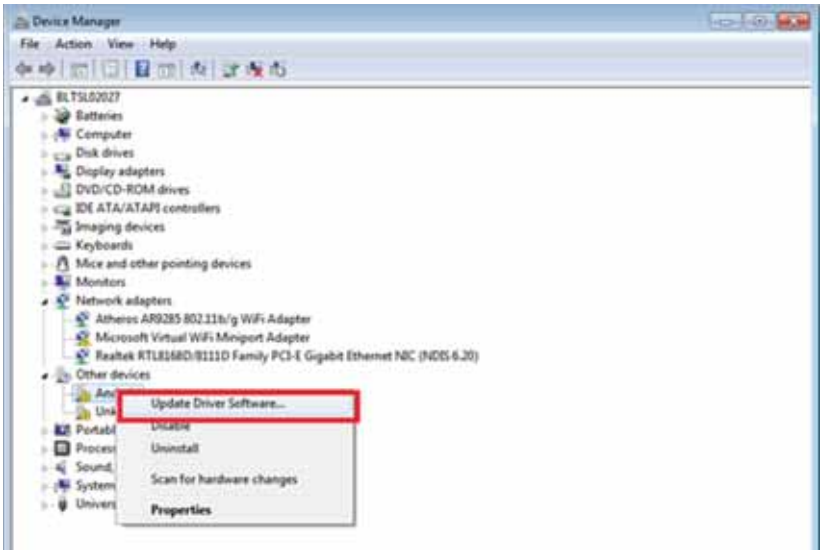
a On your computer, click the **Start** button and search for **Device Manager** and open it.

Figure 88: Access Device Manager



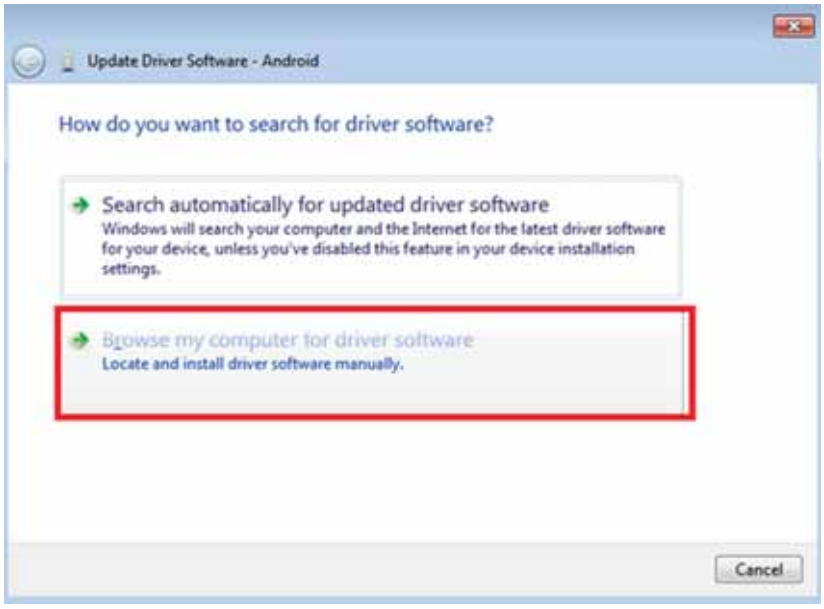
b Find Android under **Other devices** right-click and select **Update Driver Software**.

Figure 89: Select Update Drive Software



c Select **Browse my computer for driver software**.

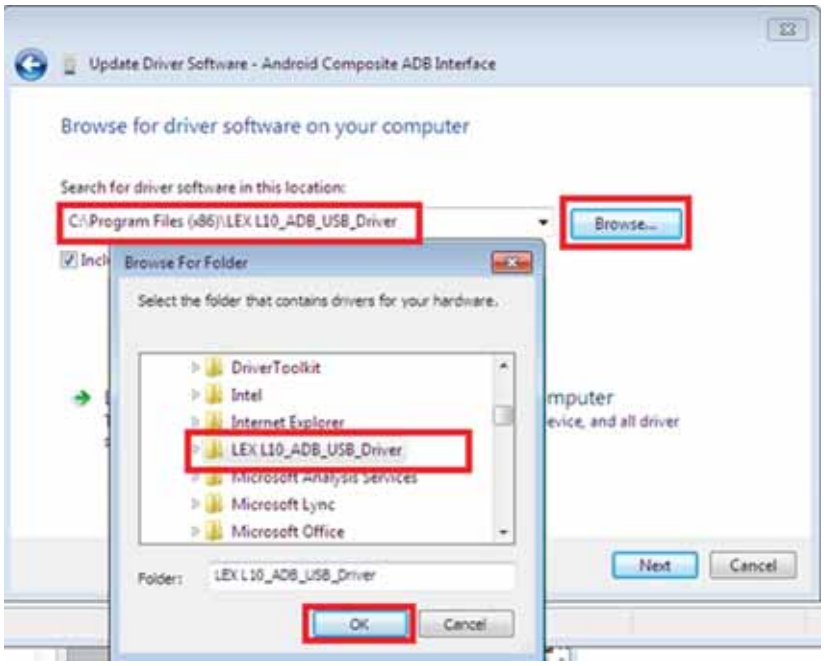
Figure 90: Select Browse my computer for driver software



d Click **Browse** and select the folder where the driver was extracted (that is, *C:\Program Files (x86)\Lex L10_ADB_USB_Driver* or the custom path chosen by you at the time of extracting the *LEX_L10.zip* file.

e Click **OK** and then click **Next**.

Figure 91: Select Installation Folder

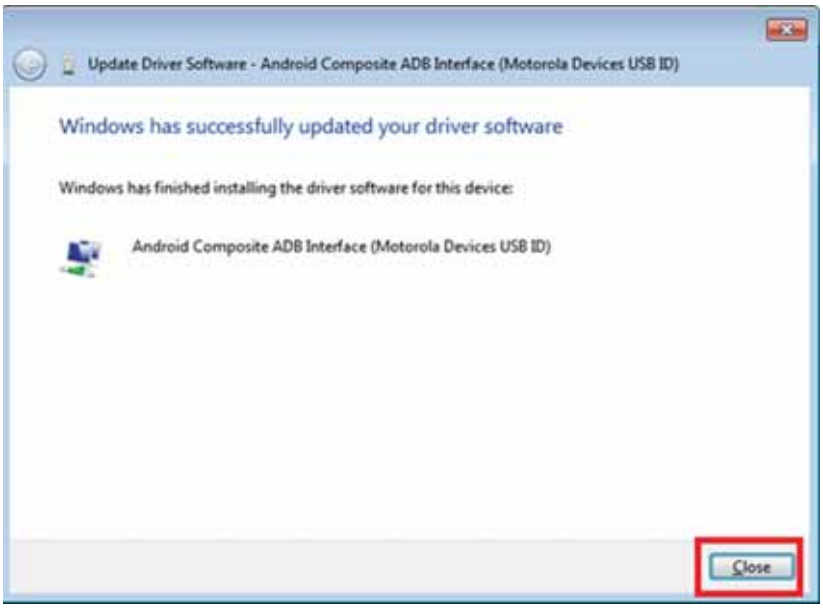


f If prompted, select **Install this driver software anyway**.

Figure 92: Select Install this driver software anyway

g Click **Close** to complete the installation.

Figure 93: Close the Installation



The driver is now installed.

7 Set up the ADB USB profile on your PC as follow-up with these steps:

a After driver installation, make sure there is a *.android* folder in your user profile directory.

b If you have installed and run ADB for the device before, run *adb kill- server*" before you can use the ADB.

c To see if ADB installs successfully, run *adb devices* from the command line.

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Chapter 10

Accessories

This chapter provides information for using the accessories associated with the LEX L10i.

Accessories

This section lists the LEX L10i accessories along with specifications.

LEX 10i General Accessories:

- Replaceable Standard Battery Li Ion 2340 mAh 3.7V
- Replaceable High-capacity Battery Pack Li Ion 4680 mAh 3.7V
- Handheld Standard Battery Door
- Handheld Extended Battery Door
- LEX L10i Auto Charge (Vehicle Power Adapter)
- Power Supply
- Carry Accessory Glove LEX L10i Rubber Sleeve
- Desktop Cradle
- Vehicle Cradle
- USB Cable
- Holster

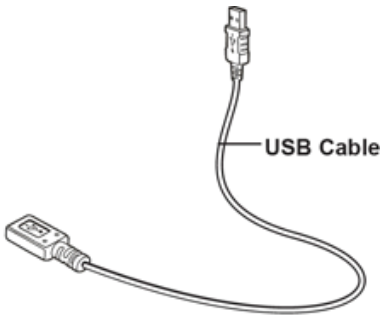
USB Cable

A USB cable is necessary to connect your LEX L10i to a charger.

The USB cable:

- Connects the LEX L10i to a USB charger to charge the LEX L10i.
- Provides USB communication with a host computer. When the LEX L10i is connected to a host computer, the LEX L10i appears as a removable disk on the host computer.

Figure 94: USB Cable



Desktop Cradle

A desktop cradle provides an alternative method to charge your LEX L10i.

The desktop cradle:

- Provides power for charging and operating the LEX L10i
- Enables connecting a mouse to the LEX L10i

Figure 95: Desktop Cradle

Charging the LEX L10i

To charge the LEX L10i, insert the LEX L10i units by placing the bottom of the LEX L10i, at a slight forward angle, into the cradle.

The LED of the LEX L10i, shows the status of the battery charging. See Battery Charge LED Status for charging status indications. The 2280 mAh battery charges in approximately four hours.

Charge the LEX L10i units in temperatures from 0°C to +45°C (32°F to 113°F)). Note that charging is intelligently controlled by the LEX L10i. To accomplish this, for small periods of time, the LEX L10i alternately enables and disables battery charging to keep the battery at acceptable temperatures. The LEX L10i indicates when charging is disabled due to abnormal temperatures via its notification LED.

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.

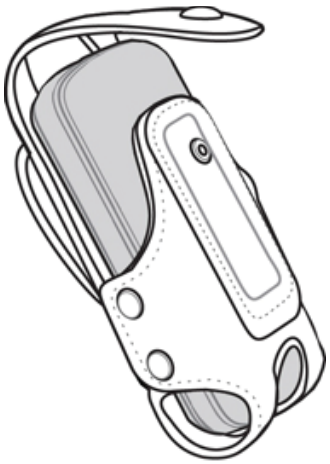
CAUTION: Some states prohibit the mounting of any electronic device in any location on the vehicle dashboard. Be sure to check with local laws acceptable mounting areas before installing the auto mounting kit.

Figure 96: Vehicle Cradle

Holster

Use the holster to securely carry the LEX L10i when working. The holster is threaded through a belt and stores the LEX L10i when not in use or when using a headset.

Figure 97: Holster



Insert the LEX L10i into the holster with the screen facing in or out.

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Chapter 11

Maintenance and Troubleshooting

This chapter includes instructions on cleaning and storing the LEX L10i. It also provides troubleshooting solutions for potential problems during LEX L10i operation.

Maintaining the LEX L10i

For trouble-free service, observe the following tips when using the LEX L10i:

- Do not scratch or use a pen or a pencil or other sharp object on the surface of the screen.
- The touch-sensitive screen is made of polycarbonate. Do not to drop or subject the device to strong impact.
- Protect from extreme temperatures. Do not leave device on the dashboard of a car on a hot day, and keep it away from heat sources.
- Do not store in any location that is dusty, damp, or wet.
- Use a soft lens cloth to clean the device. If the surface of the 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.

Battery Safety Guidelines

Adhere to the following guidelines for battery safety:

- 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 ºF and +113 ºF (0 ºC and +45 ºC)
- Do not use incompatible batteries and chargers. Use of an incompatible battery or charger may present a risk of fire, explosion, leakage, or other hazard. If you have any questions about the compatibility of a battery or a charger, contact Motorola 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.

Cleaning Guidelines

This section includes cleaning guidelines for the LEX L10i.

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.

Cleaning the LEX L10i

This section includes instructions on how the LEX L10i should be cleaned.

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.

Cleaning the Interface Connector

When and where to use: Use this procedure To clean the contacts of the interface connector on LEX L10i.

Procedure:

1. Power off the LEX L10i.
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 L10i.

Cleaning the Battery Contacts

When and where to use: Perform this procedure to clean the battery connectors.

Procedure:

1. Remove the main battery from LEX L10i.
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.

Troubleshooting

This section lists common problems and solutions to fix the problems.

Table 9: Troubleshooting the LEX L10i

Problem	Cause	Solution
After pressing the **Power** button, 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.
	Device not responding.	Reset the device.
After pressing the **Power** button, the device 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 device to a Cable, a battery charging icon Appears.	Battery is depleted but is charging.	Press and hold the **Power** button to turn on.
When charging, the LED slowly blinks red.	The device is at an extremely low-power state.	Charge the device for a few minutes. The LED changes to flashing green then press the **Power** button to turn on the LEX L10i. If LED continuously blinks red, check power connections. Disconnect and reconnect connections.
Battery did not charge.	Battery failed.	Replace battery. If the device still does not operate, perform a hardware reset.
	Device was removed from power while battery	Insert device in cradle or attach Charge Cable. The 2280 mAh battery fully charges in approximately four hours.

Table continued…

Problem	Cause	Solution
	was charging.	
	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.	Device removed from USB cable or disconnected from host computer during communication.	Reattach the communication cable and re-transmit.
	Incorrect cable configuration.	See technical support.
During data communication over Wi-Fi, no data transmitted, or transmitted data was incomplete.	Wi-Fi radio is not on.	Turn on the Wi-Fi radio.
	You moved out of range of an access point.	Move closer 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 without 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.
Device turns off.	Device 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.

Table continued…

Problem	Cause	Solution
	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 device.	Remove user-installed applications on the device to recover memory. Select → → **Apps** → **Downloaded**. Select the unused programs and tap **`Uninstall`**.
Device 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, refer to respective Bluetooth-enabled device (accessory) user manual..

Backing Up the LEX L10i

Backing up the LEX L10i must be done manually.

Prerequisites: A USB cable to connect the LEX L10i to a computer.

When and where to use: Use this procedure anytime a backup of the LEX L10i is necessary.

Procedure:

1. Connect the LEX L10i 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 L10i** 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.

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.

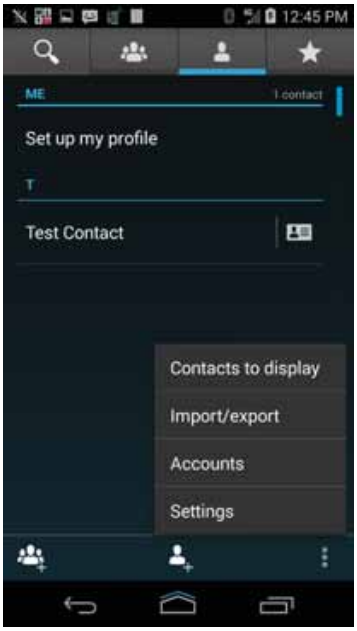
When and where to use: Use this procedure to periodically back up your contacts.

Procedure:

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

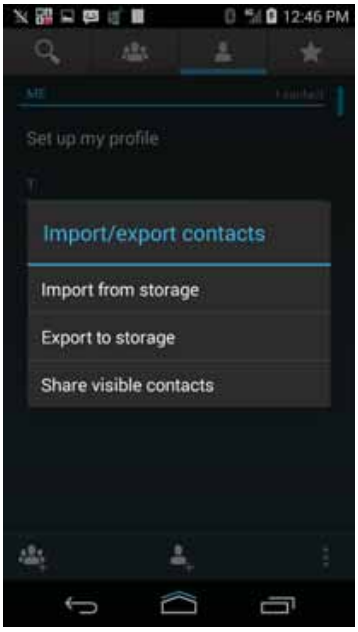
2 Tap .

Figure 98: Contacts Menu



3 Select **Import/export**.

Figure 99: Import/Export Contacts Popup



4 Select **Export to storage**.

Figure 100: 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 L10i on page 154 to complete the contacts backup.

Resetting the LEX L10i

Use this procedure to reset the LEX L10i.

When and where to use: If the LEX L10i does not operate properly, perform the following procedure.

Procedure:

1 Power off and on the LEX L10i and verify if the problem is gone.

The LEX L10i restarts. If the problem remains, perform Step 2.

CAUTION: To avoid erasing important data from your LEX L10i, do not press any of the LEX L10i buttons during power up.

2 Remove the battery, reinsert it, and verify if the problem is gone.

The LEX L10i restarts. If the problem remains, perform factory data reset.

Performing Factory Data Reset

A factory data reset is a software restore of the LEX L10i to its original manufacturer settings. Before resetting the LEX L10i, back up your data. Factory data reset erases all your personal data from the LEX L10i 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 L10i fails to operate. Before performing factory data reset, remove the SIM and microSD cards from the LEX L10i. Performing factory data reset with a microSD or SIM cards installed may cause data corruption or loss.

NOTICE: Factory data reset configures the LEX L10i 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 L10i powers off, powers on, then the system recovery screen appears.

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Chapter 12

Technical Specifications

The following table summarizes the LEX L10i operating, environment, and technical hardware specifications.

Table 10: 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 15 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 Quad Core Processor Qualcomm MSM8974AA
Display	4.7” 720p HD (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 Digital Zoom Front 2MP Camera
Sensors	Proximity Sensor Ambient Light Sensor Accelerometer Sensor

Table continued…

Item	Specification
	Barometer Sensor E-Compass
Ports	USB 2.0 High-Speed 3.5 mm Audio Jack (stereo) Accessory/Charging Port
Battery	Standard - 2340 mAH, Li Ion High Capacity - 4680 mAh, Li Ion
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
4G/LTE	
Release	3GPP Release 9
Band Class	3, 4, 5, 7, 8, 20, 26, 28
Output Power	23 dBm +/- 2 dB (UE power class 3)
Bandwidth	Up to 20 MHz Broadband data throughput depends on network conditions
3G	
Standards	HSPA +/-UMTS
Bands	1,2,4,5,8
2G	
Standards	GSM/GPRS/EDGE
Frequencies	850 MHz, 900 MHz, 1800 MHz, 1900 MHz
Wi-Fi	
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) Mission Critical Wireless Bluetooth Max throughput 2.1 Mbps A2DP Stereo Profile
GPS	

Table continued…

Item	Specification
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)
NOTICE: 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 11: 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)

Table continued…

Item	Desktop Cradle	Impact-Rated Vehicle Cradle
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 B28a	
ANSI C63.4 2009	FCC part 15, Subpart B, Class B28b	
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.