DELIVERING STREET READY DATA

LEX 755 MISSION CRITICAL HANDHELD

One thing connects every first responder. It's the street. It's where the unexpected happens daily — and where responders need to be ready.

The Motorola LEX 755 Mission Critical Handheld lets you respond with the intelligence of your entire team helping you be safer, better informed and more efficient. Its rugged form factor, mission critical data applications and a quick-response user interface provide an always-on public safety user experience that improves your situational awareness and helps you anticipate and what's next. The LEX 755 offers unique government-grade security and is easy to deploy and manage. It is an ideal complement to your Motorola radio, enabling an intelligence-led response.

EXCEPTIONAL CONNECTIVITY

Whether it is data, photos, video or voice, the LEX 755 Mission Critical Handheld is designed to bring it to you quickly, reliably and securely. Offering virtually unlimited connectivity, the LEX 755 is designed for private LTE networks that operate on one or more bands (3, 7 and 20) and with a manual switch to operate on a public carrier LTE network with a subscription for coverage extension and back up. The LEX 755 supports any roaming agreements the private LTE network may have in place and will fall back to 3G/2G in the absence of LTE coverage if the network supports it.
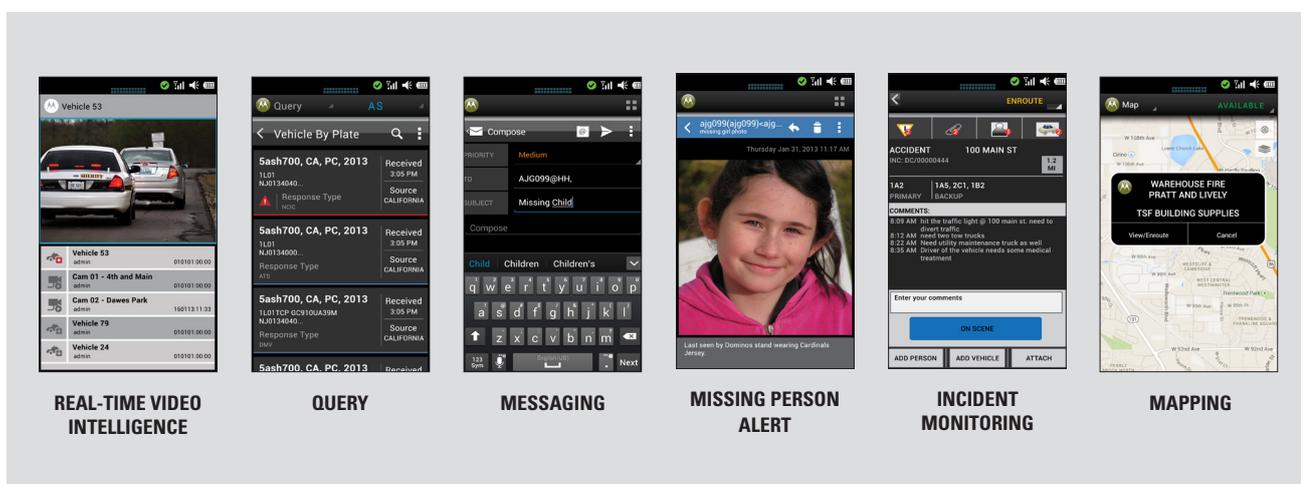
Agencies operating in regions where private LTE network spectrum is not available have the option of utilizing a public carrier network with connectivity to a Public Safety core and services. The LEX 755 supports IMS/VoLTE and IMS/SMS services on 4G LTE in addition to circuit switch voice and SMS.

- 4G LTE Bands 3, 7, 20
- 3GPP Release 9
- 3G UMTS/HSPA+ Bands 1, 8 and Quad Band GSM
- 802.11 b/g/n Wi-Fi and Miracast
- Bluetooth® 4.0LE + Enhanced Data Rate (EDR)

ADVANCED ANDROID ECOSYSTEM

Using the advanced Security Enhanced (SE) version of the Android 4.2.2 Jelly Bean operating system, the LEX 755 Mission Critical Handheld provides agencies with a secure and robust yet flexible platform for multimedia-rich applications that give your personnel on the street an advanced public safety user experience. This unique user experience can help enhance efficiency and productivity during everyday activities and when the mission really matters. The application ecosystem includes:

- Real-Time Video Streaming
- Computer Aided Dispatch (CAD) Client
- Unified Push-to-Talk
- Electronic Citation
- Query and Messaging
- Email and Web
- Data Capture

- Asset Tracking and Management
- Identity Verification
- False Alarm Management
- Incident Command
- Evidence Collection
- Report Writing
- Mapping and Navigation

REAL-TIME VIDEO INTELLIGENCE   **QUERY**   **MESSAGING**   **MISSING PERSON ALERT**   **INCIDENT MONITORING**   **MAPPING**

A WORTHY PARTNER FOR YOUR RADIO

The LEX 755 Mission Critical Handheld and your Motorola radios provide responders with rugged devices that deliver reliable communications and convenient operation when they need them the most.

Together, these companion devices provide public safety agencies with advanced voice and data tools that help responders be ready for what's next.

- Radio network connectivity via the LTE-LMR gateway
- Dedicated Push-to-Talk (PTT) button
- Configurable Quick Action button
- Dual-microphone noise canceling technology
- Voice connectivity over cellular networks

With Mission Critical Wireless technology, the LEX 755 can securely touch-pair with an APX® radio, letting you switch channels and signal an emergency while keeping the radio out of sight.

THE ART AND SCIENCE OF MISSION CRITICAL DESIGN

Motorola pioneered a field of study that focuses on human performance in moments of extreme stress, volatility and uncertainty. It's called High Velocity Human factors, and it reveals that under high stress, people process information very differently. We transferred this research into our device portfolio: integrating ergonomics, cognitive and clinical psychology, as well as physical and cultural anthropology.

The result is a handheld device intuitively designed for emergency response. Its user interface presents critical information front and center for improved decision making and to help ensure that the most critical functions are always accessible. Features like a dedicated PTT button, an easy-to-access Quick Action button, textured grip surfaces and rubberized edges are designed to help keep your personnel safe in high-stress situations.

BUILT FOR THE STREET

Whether it is law enforcement, fire, paramedics or others on the front line, they require tools that deliver the voice and data needed in the field. But that's only the beginning. The tools must also withstand the challenges of working outdoors, in rough conditions 365 days a year — and operate in a way that lets personnel focus on the task at hand, not the technology.

During an incident, every second counts. To keep up with the needs of public safety, the LEX 755 Mission Critical Handheld incorporates powerful hardware components, matched with long-lasting batteries.

- Advanced 1.7 GHz dual-core processor
- High-resolution and sun glare resistant 4-inch display
- Finger-driven capacitive touch screen made from damage-resistant glass
- High-capacity battery (2840 mAh) lasts a full shift
- FIPS 140-2 Level 3 Encryption via CRYPTR microSD Card and Suite B-compliant IPSec VPN

Your front line personnel operates outdoors, often in hostile weather conditions. That's why the LEX 755 is rated IP54, sealed and ruggedized against everyday hazards like moisture, vibration and temperature extremes. Built to exceed MIL-STD-810G test specifications, it is also protected against drops.

HOLISTIC SECURITY SOLUTION

The LEX 755 is designed from the start with security in mind. The device includes high assurance Secure Boot with Security Enhanced Android to ensure the integrity of the device by preventing rooting and malicious escalation of privileges by applications. The device includes support for the FIPS-140-2 Level 3 certified microSD hardware security module called CRYPTR micro for certificate and key storage to provide tamper resistant protection for authentication and encryption keys. The LEX 755 offers data at rest (DAR) encryption for user data, which leverages the CRYPTR micro for key storage as well. The device also offers Motorola's Suite B compliant IPSec VPN to provide high grade protection of data in transit (DIT) between the device and the user's agency.

READY-FOR-ACTION ACCESSORIES

Whether your personnel are on the street, in the patrol car, at their desk or in the server room, LEX 755 accessories will help them make the most of this powerful, versatile device. They can help you ensure that the unit stays ready for action when and where it's needed, while making the job of supporting and managing these wireless devices easier for IT staff.

Like the LEX 755, these rugged accessories have built-in features to support the needs of front line personnel, from location channels on the device that help to guide the device into the charging cradles, to a magnetic accessory port that anchors the device to the charger to make sure the connection is solid and the device will charge.

HELPING YOU STAY IN CONTROL

A large-scale deployment of portable devices can pose a challenge for IT staff. Motorola software and services can help agencies deal with user accounts, deploy and update devices in the field, control profiles and policies associated with each device — even delete data from a device that has been lost or stolen. Everything from battery health to patch management to application lockdown can be done while the unit remains in the field. Support staff can also manage a device remotely, which significantly lowers support costs and allows field personnel to stay focused on the mission and remain where they are needed most.

LEX 755 MISSION CRITICAL HANDHELD FEATURES

Proximity Sensor
1.3 Megapixel Front Camera
On/Off Power Button
Ambient Light Sensor
Dedicated PTT Button
4.0 in Display, Damage-resistant Capacitive Touch Screen
1.7 GHz Dual-Core CPU
Volume Buttons
Ruggedized Construction
3.5 mm Headphone Jack
Locating Channels for Secure Docking
Dual Microphones for Noise Cancellation
Dual 1 Watt Front-Facing Speakers

High-Output LED Flash
8 Megapixel Rear Camera
Secure Near-field Pairing
Rugged Accessory Port
Micro USB Port
Grip Texture
Dedicated Camera Button
Battery Release

Indicator Light
Secondary Microphone for Noise Reduction Technology
Quick Action Button

LEX 755 ACCESSORIES

QUICK-ACCESS LEATHER HOLSTER

Designed to meet public safety specifications, the leather holster securely holds the LEX 755 Mission Critical Handheld while also providing quick "eyes-off" access to the Quick Action, Volume and dedicated Push-to-talk buttons.

DESKTOP CRADLE

Continue to use the LEX 755 screen while conveniently charging it in the rugged desktop cradle. The cradle is able to withstand spills, drops and vibration, making it suitable for both the desktop and a command vehicle. A USB 2.0 interface enables data synchronization with a laptop or desktop PC.

IMPACT-RATED VEHICLE CRADLE

Built to withstand impacts up to 75 G, the vehicle cradle securely holds the LEX 755 while providing access to the display and all buttons. In addition, the cradle includes a Rapid-charge vehicle adapter, providing up to 3A of current to quickly replenish the battery.

4-SLOT DEVICE CHARGING CRADLE

Charge up to four LEX 755 devices simultaneously. Place the cradle on a desk or shelf, or mount it on a server rack. Use it on a desktop, in the equipment room or the IT back office.

4-SLOT BATTERY CHARGER

Designed to charge up to four LEX 755 batteries at the same time. LED indicators show charge status and battery health so personnel can easily find charged batteries.

LEX 755 SPECIFICATIONS

4G LTE

Release	3GPP Release 9
Band Class	800/1800/2600 MHz Band 20/3/7
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
Frequencies	2100/900 MHz Bands 1/8

2G

Standards	GSM/GPRS/EDGE
Frequencies	850/900/1800/1900 MHz

WI-FI

Operating Band	2.4 GHz
Standards	802.11 b/g/n

PERSONAL AREA NETWORKS

Bluetooth®	Bluetooth 4.0LE + EDR Several Profiles Supported

GPS

Location Services	Standalone GPS Assisted GPS (aGPS) GLONASS Support and E-Compass

DEVICE MANAGEMENT

Remote management and configuration	Supports OMA-DM (Open Mobile Alliance Device Management)

VIDEO AND IMAGING

Supported Formats	MPEG-4 / H.264 / H.263 / DivX / VC-1 / WMV-9 Formats supported for playback, streaming and recording
Video Recording Quality	1080p HD 1920x1080 resolution 30 frames per second (fps)

Note: Video and images are time stamped for evidence documentation

AUDIO

Supported Formats	MP3, WAVE, AAC, AMR-NB, AMR-WB, FLAC, MIDI, Vorbis
Supported File Types	MP3 (.mp3), WAVE (.wav), 3GPP (.3gp), MPEG-4 (.mp4, m4a), ATDS raw AAC (.aac), MPEG-TS (.ts), FLAC (.flac), MIDI (.mid, .xmf, .mxmf), RTTTL/RTX (.rtttl, rtx), OTA (.ota), iMelody (imy), Ogg (.ogg), Matroska (.mkv)
Output	Dual 1 Watt Front-facing speakers 3.5 mm audio jack (stereo) Bluetooth (A2DP stereo)

HARDWARE

Processor	Qualcomm Snapdragon™ 8960Pro 1.7 GHz Dual-core Krait Integrated Adreno 320 graphics accelerator Integrated Image Signal Processor
Display	4" 800x480 WVGA Capacitive, finger-driven and sun glare resistant touch screen Damage-resistant alkali-aluminosilicate glass Protective bezel
Memory	1 GB RAM 16 GB eMMC (max 11 GB addressable by operating system) Expandable to 64GB with microSD™ card
Camera	8 megapixels rear Auto Focus/4x Digital Zoom High-Output LED Flash 1.3 megapixel front facing
Sensors	Proximity sensor Ambient light sensor Accelerometer sensor
Ports	USB 2.0 High-Speed (micro-B interface) 3.5 mm audio jack (stereo) Accessory/charging port
Battery	2840 mAH Lithium Ion removable type

PHYSICAL

Dimensions (H x W x D)	135 x 72 x 19 mm 5.3 x 2.8 x 0.7 in
Weight	250 g (8.82 oz) including high-capacity battery
Durability	Continues to run after multiple drops from a height of 48 inches (121 cm) Drop tested using MIL-STD-810G Method 516.6 Procedure IV IP54 sealed (protected against dust and splashing water)
Operating Temperature	14°F to 131°F (-10°C to +55°C)
Storage Temperature	-40°F to 158°F (-40°C to +70°C)

SOFTWARE

Operating System	Security Enhanced (SE) Android™ 4.2.2 Jelly Bean
Messaging	SMS/MMS Email (POP3, IMAP, Exchange, Push Email)
Web	Webkit™ browser

SECURITY

Hardware Encryption	CRYPTR Micro SD, FIPS 140-2 Level 3, Data at Rest (DAR) protection
Network Security	Suite B Compliant IPSec VPN for Data in Transit (DIT) protection

Specifications subject to change.

LEX 755 ACCESSORY SPECIFICATIONS

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)

GENERAL

	DESKTOP CRADLE	IMPACT-RATED VEHICLE CRADLE	4-SLOT DEVICE CHARGING CRADLE	4-SLOT BATTERY CHARGER
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)	16.9 x 7.2 x 6.1 in (429 x 182 x 155 mm)	6.3 x 3.2 x 1.7 in (160 x 82 x 42 mm)
Weight	12.8 oz (363 g)	4.8 oz (135 g)	5.0 lbs (2.25 kg)	7.8 oz (221 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)	32°F to 104°F (0°C to +40°C)	32°F to 113°F (0°C to +45°C)
Storage Temperature	-40° F to 158°F (-40°C to 70°C)	-40° F to 185°F (-40°C to +85°C)	-40° F to 158°F (-40°C to 70°C)	-40° F to 158°F (-40°C to 70°C)
Humidity	95% at 113°F (45°C) for 8 hours (non-condensing)	95% at 131°F (55°C) for 8 hours (non-condensing)	95% at 104°F (40°C) for 8 hours (non-condensing)	95% at 113°F (45°C) for 8 hours (non-condensing)
DURABILITY				
Salt Fog	Yes	Yes	Yes	Yes
Vibration	Yes	Yes	Yes	Yes
Drop	Yes	Yes	Yes	Yes
Shock (Functional)	Yes	Yes	Yes	Yes
Shock (Crash Hazard)		Yes, MIL-STD-810G, 75 G impact		
ESD	Yes	Yes	Yes	Yes
Solar Radiation		Yes		
Liquid Resistance	Yes	Yes	Yes	Yes
SAFETY REGULATORY				
Electrical Safety	IEC 60950-1:2005 (2nd Edition); Am 1:2009 EN 60950-1:2006+A11: 2009+A1: 2010+A12:2011	IEC 60950-1:2005 (2nd Edition); Am 1:2009 EN 60950-1:2006+A11: 2009+A1: 2010+A12:2011	IEC 60950-1:2005 (2nd Edition); Am 1:2009 EN 60950-1:2006+A11: 2009+A1: 2010+A12:2011	IEC 60950-1:2005 (2nd Edition); Am 1:2009 EN 60950-1:2006+A11: 2009+A1: 2010+A12:2011
EMI/RFI	FCC part 15, Subpart B, Class B ICES-003:2004, Class B ANSI C63.4 2009 EN 55022:2010 +AC 2011, Class B EN 61000-3-2:2006 +A1:2009 +A2:2009, Class A EN 61000-3-3:2008 EN 55024:2010 IEC 61000-4-2:2008 ED. 2.0 IEC 61000-4-3:2010 ED. 3.2 IEC 61000-4-4:2012 ED. 3.0 IEC 61000-4-5:2005 ED. 2.0 IEC 61000-4-6:2008 ED. 3.0 IEC 61000-4-8:2009 ED. 2.0 IEC 61000-4-11:2004 ED. 2.0	FCC part 15, Subpart B, Class B ICES-003:2004, Class B ANSI C63.4 2009 EN 55022:2010 +AC 2011, Class B EN 61000-3-2:2006 +A1:2009 +A2:2009, Class A EN 61000-3-3:2008 EN 55024:2010 IEC 61000-4-2:2008 ED. 2.0 IEC 61000-4-3:2010 ED. 3.2 IEC 61000-4-4:2012 ED. 3.0 IEC 61000-4-5:2005 ED. 2.0 IEC 61000-4-6:2008 ED. 3.0 IEC 61000-4-8:2009 ED. 2.0 IEC 61000-4-11:2004 ED. 2.0	FCC part 15, Subpart B, Class B ICES-003:2004, Class B ANSI C63.4 2009 EN 55022:2010 +AC 2011, Class B EN 61000-3-2:2006 +A1:2009 +A2:2009, Class A EN 61000-3-3:2008 EN 55024:2010 IEC 61000-4-2:2008 ED. 2.0 IEC 61000-4-3:2010 ED. 3.2 IEC 61000-4-4:2012 ED. 3.0 IEC 61000-4-5:2005 ED. 2.0 IEC 61000-4-6:2008 ED. 3.0 IEC 61000-4-8:2009 ED. 2.0 IEC 61000-4-11:2004 ED. 2.0	N/A EN 55022:2010 +AC 2011, Class B EN 61000-3-2:2006 +A1:2009 +A2:2009, Class A EN 61000-3-3:2008 EN 55024:2010 IEC 61000-4-2:2008 ED. 2.0 IEC 61000-4-3:2010 ED. 3.2 IEC 61000-4-4:2012 ED. 3.0 IEC 61000-4-5:2005 ED. 2.0 IEC 61000-4-6:2008 ED. 3.0 IEC 61000-4-8:2009 ED. 2.0 IEC 61000-4-11:2004 ED. 2.0
Flammability	ANSI/UL-94 and ASTM Standards	ANSI/UL-94 and ASTM Standards	ANSI/UL-94 and ASTM Standards	ANSI/UL-94 and ASTM Standards
ELECTRICAL				
Power Supply	External power supply input 100-240VAC output 12VDC 4.16A	Internal	Included: Input 100-240AC, Output 12V 9A	External power supply 100-240VAC output 12VDC 4.16A
Power Input	12V DC, 2A	12V ~ 24V (Fuse 4A/250V DC)	100-240VAC 50/60Hz 3A	12V 3.15A
DC Output	5.2V DC	5.2V DC	5.2V DC	N/A
Power On	With device insertion	With device insertion	With device insertion	With battery insertion
Indicators	USB 2.0			8 LED Bi-Color
OPTIONAL ACCESSORIES				
		Vehicle Ram® Mount Kit	19" Rack Mounting Bracket Kit	19" Rack Mounting Bracket Kit Rack Power Supply Unit (Input 100-240V AC/Output 12V 9A) Power cable 1 to 4 for rack mount

Specifications subject to change.

MOTOROLA