DELIVERING STREET READY DATA

LEX 700 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 700 Mission Critical Handheld lets you respond with the intelligence of the entire team at your back. With a rugged, discreet form factor and a quick-response interface, it gives you always-on public safety applications that help you see what's in front, what's behind, and what's next. It's the one solution with government-grade security and easy deployment and management. And the one solution that makes you ready for almost anything.

EXCEPTIONAL CONNECTIVITY

Whether it is data, photos, video or voice, the LEX 700 Mission Critical Handheld is designed to bring it to you quickly, reliably and securely. In the field, the LEX 700 delivers virtually unlimited connectivity:

- Band 14 Public Safety LTE
- 3G EVDO Rev. A
- CDMA 2.5G and 2G cellular
- 802.11 a/b/g/n Wi-Fi™
- Bluetooth® technology
- GPS, including standalone and assisted (aGPS)

This connectivity not only makes the LEX 700 versatile in the field – it also helps your agency leverage existing infrastructure and maximize return on prior investments.

ADVANCED ANDROID ECOSYSTEM

Using the advanced Android 4.2.2 operating system – Jelly Bean – LEX 700 provides agencies with a flexible platform for multimedia-rich applications that give officers on the street an advanced user experience enhancing efficiency and productivity, during everyday activities and when the mission really matters.

A WORTHY PARTNER FOR YOUR RADIO

Public safety agencies rely on voice communications, and the LEX 700 Mission Critical Handheld brings a multitude of voice technologies to the field, in one rugged package:

- ASTRO® 25 radio network connectivity via the LTE-P25 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 700 can securely touch-pair with an APX® 7000 radio, letting you monitor radio traffic, change volume and switch channels, 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 Push-to-Talk button, an easy-to-access Quick Action button, textured grip surfaces and rubberized edges designed to help keep your personnel safe in high-stress situations.

BUILT FOR THE STREET

Whether it is law enforcement, fire, EMS 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 700 Mission Critical Handheld incorporates powerful hardware components, matched with long-lasting batteries.

- Advanced 1 GHz dual-core processor
- High-resolution, 4-inch display
- Finger-driven capacitive touch screen made from damage-resistant glass
- Bluetooth® 2.0 + EDR
- High-capacity battery (3760mAh)

Working in public safety means operating outdoors, often in hostile weather conditions. That's why the LEX 700 is 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 to concrete.

READY-FOR-ACTION ACCESSORIES

Whether your personnel are on the street, in the patrol car, at their desk or in the server room, LEX 700 accessories will help them make the most of this powerful, versatile device. Accessories for the LEX 700 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.
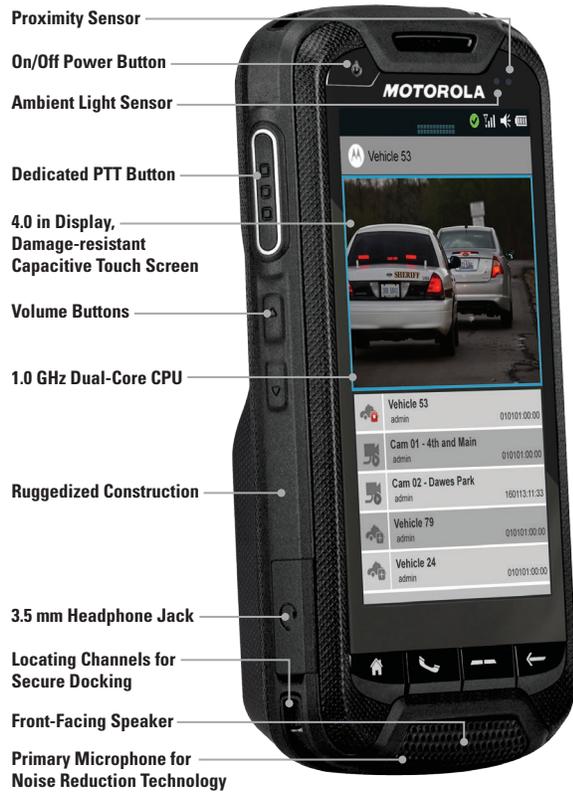
Like the LEX 700, these rugged accessories have built-in features to support the needs of first responders, from location channels on the device that help to guide the device into the charging cradles, to a magnetic accessory port that anchors the device to the charger to make sure the connection is 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. 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 operate 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 700 FEATURES

Proximity Sensor

On/Off Power Button

Ambient Light Sensor

Dedicated PTT Button

4.0 in Display,
Damage-resistant
Capacitive Touch Screen

Volume Buttons

1.0 GHz Dual-Core CPU

Ruggedized Construction

3.5 mm Headphone Jack

Locating Channels for
Secure Docking

Front-Facing Speaker

Primary Microphone for
Noise Reduction Technology

High-Output LED Flash

8 Megapixel Camera

Rugged Accessory Port

Bluetooth® Technology

Micro USB Port

Grip Texture

Dedicated Camera
Button

Battery Release

Indicator Lights

Secondary Microphone for
Noise Reduction Technology

Quick Action Button

LEX 700 ACCESSORIES

QUICK-ACCESS LEATHER HOLSTER

Designed to meet public safety specifications, the leather holster securely holds the LEX 700 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 700 screen while conveniently charging it in the rugged desktop cradle which 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 quick data synchronization with a desktop PC.

IMPACT-RATED VEHICLE CRADLE

Built to withstand impacts up to 75 G, the vehicle cradle securely holds the LEX 700 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 700 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 700 batteries at the same time. LED indicators show charge status and battery health so personnel can easily find charged batteries.

LEX 700 SPECIFICATIONS

LTE

Release	3GPP Release 8 (upgradeable to R9)
Band Class	700 MHz Band 14 (Public Safety LTE)
Output Power	23 dBm +/- 2 dB (UE power class 3)
Bandwidth	5 MHz, 10 MHz Broadband data throughput depends on network conditions

CDMA

Standards	EVDO Rev. A (Band 0, Band 1) 3G, 1X
Frequencies	800/1900 MHz

WI-FI

Operating Band	2.4 GHz, 5 GHz
Standards	802.11 a/b/g/n

PERSONAL AREA NETWORKS

Bluetooth®	Bluetooth 4.0 Max throughput 2.1 Mbps A2DP Stereo Profile Class 2
Mission Critical Wireless	Low-frequency pairing Low-latency connectivity 128-bit encryption

GPS

Location Services	Standalone GPS Assisted GPS (aGPS) E-Compass

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), MPEG-TS (.ts), WebM (.webm), Matroska (.mkv)
Video Recording Quality	D1 (DVD quality), 720P 720x480 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	Front-facing speaker 3.5 mm audio jack (stereo) Bluetooth (A2DP stereo)

HARDWARE

Processor	1.0 GHz Texas Instruments OMAP™ 4430 Dual-core ARM® Cortex™-A9 MPCore™ with Symmetric Multiprocessing (SMP) Integrated POWERVR™ SGX540 graphics accelerator Integrated Image Signal Processor
Display	4" 800x480 WVGA Capacitive, finger-driven touch screen Damage-resistant alkali-aluminosilicate glass Protective bezel
Memory	1 GB RAM 8 GB eMMC (max 4 GB addressable by operating system) Expandable to 32GB with microSD™ card
Camera	8 megapixels Auto Focus High-Output LED Flash Digital Zoom
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	High-Capacity 3760mAh

PHYSICAL

Dimensions (H x W x D)	5.3 x 2.8 x 0.7 in 135 x 72 x 19 mm
Weight	9.88 oz (280 g) including high-capacity 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 IP54 sealed (protected against dust and splashing water)
Operating Temperature	14°F to 131°F (-10°C to +55°C)
Storage Temperature	-22°F to 140°F (-30°C to +60°C)

SOFTWARE

Operating System	Android™ Jelly Bean 4.2.2
Messaging	SMS/MMS Email (Corporate Sync, POP3, IMAP, Push Email)
Web	Chromium™ browser

LEX 700 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	US: UL60950 Canada: CSA C22.2 No. 60950	US: UL60950 Canada: CSA C22.2 No. 60950 Cable: UL2089	US: UL60950 Canada: CSA C22.2 No. 60950	US: UL60950 Canada: CSA C22.2 No. 60950
EMI/RFI	FCC part 15, Subpart B, Class B ICES-003:2004, class B ANSI C63.4 2009	FCC part 15, Subpart B, Class B ICES-003:2004, class B ANSI C63.4 2009	FCC part 15, Subpart B, Class B ICES-003:2004, class B ANSI C63.4 2009	FCC part 15, Subpart B, Class B ICES-003:2004, class B ANSI C63.4 2009
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	12VDC 2.4A
DC Output	5.2V DC	5.2V DC	5.2V DC	5.2V DC
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.

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