# THE FIRST TO RESPOND.
# THE LAST TO GO HOME.

## MOTOROLA APX™ MOBILE RADIOS
## SAFETY REDEFINED.

# GET MORE INFORMATION. WITH LESS INTERACTION.

During a high-speed pursuit or commanding a Fireground scene, communication is vital; your focus can't be on operating the radio. Mission critical voice transmissions have to be heard over engine, siren, and wind noise. Controls that send location and status information must be easy to locate. The radio has to perform– so you can communicate while remaining focused on the mission.

Motorola created the APX™ P25 mission critical series to redefine safety in mobile communications. Every feature and function of an APX mobile is designed with its users in mind - from the rugged, easy to operate design, to the loud and clear audio. So when lives are at stake, your APX mobile isn't just operating, it's your lifeline.

## INTEROPERABILITY ON DEMAND

From street patrols to mulit-agency response APX mobiles provide the highest level of interoperability. APX mobiles can work across multiple digital and analog networks from conventional, to SMARTNET® and SmartZone® to ASTRO® 25 providing true P25 interoperability. When multiband operation is needed, the APX 7500 provides seamless interoperability on demand through any 2 frequency bands.

# ONLY APX MOBILES MEET ALL THE CRITERIA THAT AGENCIES AND FIRST RESPONDERS DEMAND FOR SAFE AND RELIABLE COMMUNICATION IN ANY SITUATION.

## RELIABLE VOICE AND DATA

### AGENCIES DEMAND

- Voice communication that works every time, in any environment.
- Advanced systems to enter and receive data quickly and accurately.
- Seamless integration with multiple in-vehicle devices.

### APX DELIVERS

- Reliable voice communication.
- Real-time data.
- Secure end-to-end encrypted communications.
- GPS location tracking.

## LOUD, CLEAR AUDIO

### AGENCIES DEMAND

- Loud audio so every word is heard.
- Intelligible audio so every word is understood.
- Clear communications without background or ambient noise.

### APX DELIVERS

- Loud and clear audio.
- Aggressive noise suppression technology.
- AMBE digital voice vocoder.
- Audio profiles for different environments.

## EASY TO OPERATE

### AGENCIES DEMAND

- Transceivers that fit into existing installation space.
- Simplified interoperability with legacy and future systems and multiple agencies.
- Large viewable displays and intuitive controls that are easy to operate.

### APX DELIVERS

- Mid and high power mobiles that reuse cables and mounting holes.
- High power trunnion design can be removed without unplugging cables.
- Well-positioned knobs and buttons that can be easily differentiated by touch.
- Seamless interoperable communications with multiple frequency bands, Motorola legacy systems, P25 Phase 1 and P25 Phase 2 systems.

## RUGGED DESIGN

### AGENCIES DEMAND

- Reliable operation in every situation.
- Minimal replacement and repair.
- Performance in extreme environments.

### APX DELIVERS

- 80 years of real-world product experience and testing.
- Meets or exceeds MIL-STD standard specifications.

# THE MOST COMPLETE LINEUP OF SAFETY-FOCUSED MOBILES.

For any agency and any budget, the APX Mobile platform offers the most flexibility in meeting mission-critical communication needs – so you optimize every dollar, and equip first responders with the world's safest mobile radios. A complete line of APX mobiles, control heads and accessories – all designed to Motorola's legendary quality standards – are key to creating solutions for all types of installations, from squad cars and motorcycles to fire apparatus and military vehicles.

## APX 7500

- Multiband operation
- O3, O5 and O9 control head support
- Quad control head support
- Motorcycle configuration

## APX 6500

- Single band operation
- O3 and O5 control head support
- Dual control head support

| | APX 7500 | APX 6500 |
|---|---|---|
| Control Heads | O9, O5, O3 | O5, O3 |
| Channel Capacity | 1250 | 870 |
| System Personalities | 100 | 100 |
| SmartNet/SmartZone/Omnilink | ✓ | ✓ |
| P25 Operation | Phase 1 - FDMA<br>Phase 2 - TDMA | Phase 1 - FDMA<br>Phase 2 - TDMA |
| Multiband Operation | ✓ | |
| Outdoor GPS location | ✓ | ✓ |
| Intelligent Lighting | ✓ | ✓ |
| Radio Profiles | ✓ | ✓ |
| Text Messaging | ✓ | ✓ |
| POP25 | ✓ | ✓ |
| Voice Announcement | ✓ | ✓ |
| Adaptive Noise Suppression | ✓ | ✓ |
| Encryption | ✓ | ✓ |
| OTAR | ✓ | ✓ |
| Mounting | D, R, M* | D, R* |
| High Power Models | ✓ | ✓ |
| Multi-Control Head | Up to 4 | Up to 2 |

* D - Dash mount, R - Remote mount, M - Motorcycle

## ADVANCED SOFTWARE FEATURES

INTELLIGENT LIGHTING
Intelligent lighting uses color alerts to notify you of the radio mode, potential emergencies, or specific events.

RADIO PROFILES
Radios can be configured to adjust audio level, lighting and tones through user selected or automated options. Whether on surveillance or working in bright sunlight, you can customize settings as needed.

TEXT MESSAGING
Text messaging offers a freeform or canned messaging solution so you can efficiently and discreetly send and receive messages to and from subscribers or dispatch operators.

UNIFIED CALL LIST
Consolidates all call lists to make all information associated with a particular contact easily accessible.

VOICE ANNOUNCEMENT
Navigate through channels/talk-groups and zones in the radio, while an audible, pre-recorded voice file provides a description of the selected channel or zone.

## ADVANCED HARDWARE FEATURES

P25 PHASE 2 CAPABLE
Provides twice the voice capacity. You add more users to your system without the need for additional frequencies or infrastructure.

GPS LOCATION
Integrated GPS receiver can transmit the outdoor location of a vehicle to map based location software.

MULTIBAND OPERATION
Multiple frequency bands supported with best-in-class transceiver specifications and performance.

SEAMLESS SCAN
Scan multiple protocols including FDMA and TDMA systems and multiple RF bands.

ENCRYPTION
Standard equipped with FIPS certified encryption hardware, for secure communications.

## FUTURE READY

EXPANSION SLOT
Ability to add option cards and data applications to upgrade to the latest functionality.

MEMORY
Expandable memory slot to store future data applications. As technology needs grow, increased memory is available.

PROGRAMMING OVER PROJECT 25 (POP25)
Allows subscriber radios to be programmed over the air via the ASTRO25 system while remaining in the field without interrupting voice operations.

# MULTIPLE CONFIGURATIONS. OPTIMIZED FUNCTIONALITY.

The APX mobile portfolio is both flexible and adaptable, so your mission-critical communication system can meet current and future needs.

## MID POWER INSTALLATION

Mounted remotely or in dash, fits into the existing XTL footprint allowing reuse of the mounting holes and cables for ease of installation.

## HIGH POWER INSTALLATION

Mounted remotely, the simplified trunion design allows the radio to be removed without having to remove the cables.

## RFID

12-character RFID asset tracking provides a fast, accurate and convenient method of obtaining valuable asset tracking information without having to uninstall the radio.

## MULTIPLE CONTROL HEADS

O9 works with APX 7500 only

### O9 INTEGRATED CONTROL HEAD

- Extra large full color display with intelligent lighting
- 12 Button Keypad
- Dedicated Siren controls
- Large programmable one touch buttons
- Night/day Mode Button

O5 works with both APX 7500 and APX 6500

### O5 CONTROL HEAD

- Tri-color display with intelligent lighting
- 4-line/14 character/1 icon customizable alphanumeric display
- 5 programmable soft key buttons and, 5 scroll-through menus with up to 24 programmable soft keys
- Multiple control head configuration with up to 4 different wired locations
- Motorcycle configuration available

O3 works with both APX 7500 and APX 6500

### O3 CONTROL HEAD

- Large color display with intelligent lighting
- 4-line/14 character/2 icons alphanumeric display
- 3 x 6 keypad with up to 24 programmable soft keys
- 2 quick access side buttons
- Hand held control head with intuitive user interface

# APX ACCESSORIES. CUSTOMIZE YOUR SOLUTION. MAINTAIN PERFORMANCE.

Whether you communicate on your mobile in your vehicle, on your motorcycle or at your desk, mobile accessories are available. Every Motorola APX mobile accessory has been designed and thoroughly tested to provide the same high level of performance you expect from your radio. Many accessories from the Motorola XTL radios that utilize the O5 and O3 control heads can be reused – maximizing your investment while maintaining the latest technology.

Motorola Accessories give you maximum flexibility without compromising voice and data performance.

A complete line of accessories include:

- Microphones
- Speakers
- Sirens and Public Address kits
- Control Station Accessories
- Remote Mount cables
- Antennas

**For a complete listing of APX Mobile Accessories, see the APX Mobile Accessory Catalog (RC-3-1011).**

# APX P25 MOBILE RADIOS SAFETY REDEFINED.

Go online to motorola.com/apx for more information about each of the APX Mobiles.

- Complete hardware specs, including Performance Characteristics, Physical Characteristics, and Radio Features.
- Complete list and photos of accessories.
- Downloadable product brochures.
- Downloadable white papers.

## TECHNOLOGY THAT'S SECOND NATURE™

At the heart of every mission is the ability to communicate in an instant to coordinate response and protect lives. Today, Motorola is putting real-time information in the hands of mission critical users to provide better outcomes. Our powerful combination of next generation technologies are transforming public safety operations by strengthening the mission critical core with broadband connections, rich-media applications, collaborative devices and robust services. It's Technology That's Second Nature. To find out more, visit motorola.com/nextgen.

**www.motorola.com/apx**

MOTOROLA

Motorola, Inc. 1301 E. Algonquin Road, Schaumburg, Illinois 60196 U.S.A. **www.motorolasolutions.com**

MOTOROLA, MOTOROLA SOLUTIONS, and the stylized M Logo are trademarks or registered trademarks of Motorola Trademark Holdings, LLC and are used under license.
All other trademarks are the property of their respective owners. © Motorola Solutions, Inc. 2011

RC-1-2016C