

# APX™ 7000 MULTIBAND PORTABLE RADIOS **SAFETY REDEFINED**





# MEET THE APX™ 7000 MULTIBAND PORTABLE: THE RADIO CREATED TO KEEP YOU SAFER.

No other mission critical communications tool can keep you safer than an APX portable radio. If you're on surveillance, on the street or fighting a fire, you need a radio that keeps you connected, instantly and continuously, no matter which situation you're involved in, how much background noise, how harsh the weather or how long the hours.

You expect a reliable radio with crystal clear communication when you need it most. A radio on which every word is heard and every message is understood. At the end of a shift, you want to head home feeling safe and successful.



## EXPECT OUTSTANDING PERFORMANCE AND EXCEPTIONAL AUDIO.

Our design teams worked with public safety and federal personnel around the world to develop the safest, lightest P25 portable on the market: the APX™ 7000 multiband radio. Each feature and function was engineered with their requests in mind, from easy to use design to exceptional audio. In fact, the APX 7000 offers the loudest, clearest audio of any portable radio on the market—50% louder than comparable radios in its class.\*

Every APX 7000 radio is backward and forward compatible, designed to meet current P25 standards and future-ready to support new technology and data applications. That means you can achieve your interoperability objectives—whether upgrading an existing system or designing a new one—at your own pace.

## GET INSTANT INTEROPERABILITY. ACROSS AGENCIES, STATE LINES AND COUNTY LINES.

Whether you're patrolling the border or directing a multi-agency response, the APX 7000 portable delivers seamless interoperability on demand, so you can efficiently manage mission critical voice and data in any environment.

These ruggedly reliable, real-world-tested portables perform across multiple digital and analog networks—from SmartNet® and SmartZone® to ASTRO® 25—to provide the highest level of interoperability possible. And when multiband operation is called for, the APX 7000 handles it seamlessly and skillfully through any two frequency bands.

## BE READY FOR FUTURE TECHNOLOGY.

Not only are APX 7000 radios compatible with our ASTRO Project 25 standards-based system, they support both P25 Phase 1 and Phase 2 technologies seamlessly. Using Motorola's unique Dynamic Dual Mode (DDM) capability, the radios switch between FDMA and TDMA without having to change channels. And since TDMA will be part of P25 Phase 2 requirements, providing twice the voice capacity, you can add more users without adding new frequencies or infrastructure.

\* Based on results of controlled engineering tests



**GIVE US YOUR COMMUNICATION CHALLENGE.**

## **SEE HOW APX 7000 ANSWERS THE CALL.**

### **AGENCIES DEMAND INSTANT INTEROPERABILITY.**

Whether your people are on a covert operation or responding to an emergency, they often operate on different frequency bands—requiring them to carry two radios in order to communicate.

#### **THE APX 7000 DELIVERS.**

Our premier multiband portable operates in any of two bands (700 MHz, 800 MHz, VHF and UHF R1, UHF R2) for instant, interoperable communication that streamlines coordination, speeds response and improves safety.

### **AGENCIES DEMAND LOUD, CLEAR AUDIO.**

From the police officer on a foot chase to federal officers in a congested city, your personnel want a radio that works clearly above the clamor, so every word is heard and every message is understood.

#### **THE APX 7000 DELIVERS.**

With our dual-sided two-microphone design for exceptional noise-canceling, dual speakers for the loudest, clearest portable audio available and the latest AMBE digital voice vocoder, the APX 7000 provides best-in-class audio, everywhere your people go.

### **AGENCIES DEMAND FUTURE EXPANDABILITY.**

Whether you're running a suburban police department or a sprawling federal agency, you want to protect your current investment in mission critical radios and ensure new radio purchases can be updated to utilize the latest advances in technology.

#### **THE APX 7000 DELIVERS.**

Backward and forward compatible, the APX 7000 works on all Motorola ASTRO 25 systems and will work as you migrate. An expansion slot enables you to add future data applications.

# THE PERFECT PARTNER: COMPACT BUT TOUGH. FULL-FEATURED BUT EASY TO USE. SAFETY-FOCUSED.

## Two APX 7000 Models:

- Top Display model with 8-character visible top display
- Dual Display model with large color display, top display and keypad

### ERGONOMIC FORM FACTOR

#### A. Universal Push-to-Talk

Enlarged Push-to-Talk button with enhanced grooves is easy to access and operate. It offers optimal tactility for right or left hand use.

#### B. T-Grip

The T-Grip design has an enhanced slip-free grip and a wider control top area with greater spacing and differentiation between knobs, making it seamless to use even when your eyes have to be focused elsewhere.

#### C. Dual-Battery Latch

The dual-battery latch system is designed for increased stability and is easy to secure with its commercial “power pool” style loading.

#### D. Accessory Connector

New portable accessory connector uses leading-edge IMPRES™ audio technology. It is extremely durable and offers increased intelligence for enhanced accessories.

### USER INTERFACE

#### E. Two-Sided Design

Enhanced ergonomic design has a large color display, loud audio speaker and enlarged keypad—ideal for both voice and data communications.

#### F. Top Display

An 8-character visible display presents 32-character zone/channel data so you can see information quickly, at a glance.

#### G. Large Color Display

High-contrast color display is impact and scratch resistant for enhanced legibility in all lighting conditions and durability in mission critical environments.

#### H. Enlarged Keypad

Keypad with increased spacing makes navigating easy, improves numeric input and gives you better visibility.

### SUPERIOR AUDIO

#### I. Dual Speakers

Dual-sided speakers optimize communication for both voice and data. These custom loudspeakers reproduce speech dynamics for superior intelligibility in most environments.\*

#### J. Dual Microphones

Dual microphones with directional-sensing technology locate the talker and engage sophisticated algorithms in noisy or windy environments for clear communications.

\* Recent studies have shown communication systems can be affected by certain high noise sources such as alarm systems in self-contained breathing apparatus or chainsaws in fireground environments.





## ADVANCED SOFTWARE FEATURES

### Intelligent Lighting

Intelligent lighting uses color alerts to notify you of the radio mode, potential emergencies and 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.

### Extreme Audio Profile

Intelligent two-microphone noise reduction software and the latest AMBE vocoder dynamically adjust for changing high noise environments.

### Text Messaging

Text messaging offers a free form or canned messaging solution so you can efficiently and discreetly send and receive messages to and from radios or dispatch operators.

### Unified Call List

Consolidates all call lists in one unified list. You can easily access all information associated with a particular contact.

### Voice Announcement

Voice Announcement allows you to navigate through channels/talkgroups 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 can add more users to your system without the need for additional frequencies or infrastructure.

### Multiband Operation

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

### Seamless Scan

Delivers seamless scanning of multiple protocols, including FDMA and TDMA systems, conventional, and multiple RF bands.

### GPS Location

With its integrated GPS receiver the outdoor location of an individual or vehicle can be transmitted to map-based location software.

### Mission Critical Wireless

Mission Critical Wireless is a unique Bluetooth® solution that provides an encrypted link to a rugged, high performance earpiece to support different mission critical environments.

### Encryption

Is standard equipped with FIPS certified encryption hardware. Provides secure communications in a tamperproof solution.

## FUTURE READY

### Expansion Slot

Ability to add option cards, such as Bluetooth® and other future data applications to upgrade to the latest applications.

### Memory

Equipped with 64 MB of industrial grade internal memory and a removable memory MicroSD card slot. The removable memory card allows future expandability for growing technology needs.

### Programming Over Project 25 (POP25)

The POP25 solution allows subscriber radios to be programmed over the air via the ASTRO 25 systems, while remaining in the field, without interrupting voice operations.

# BE READY 24/7/365 WITH THE 100% MISSION CRITICAL PORTABLE.

## WHY APX 7000?

The APX portable radios deliver exceptional performance by combining advanced voice and data technology with our legendary quality.

### INTEROPERABILITY ON DEMAND

APX 7000 operates in multiple bands and meets P25 public safety specifications for seamless multi-agency collaboration.

#### 2-In-1 Radio

APX 7000 operates in any of two bands (700/800 MHz, VHF/UHF R1 or UHF R2) and acts as two radios in one. First responders can now reduce the amount of equipment they must carry and maintain.

### MISSION CRITICAL FORM FACTOR

Our new, two-sided ergonomic design was developed based on extensive user input. Available in optional colored housings, APX is rugged and easy to use in extreme environments.

#### Superior Audio Quality

The APX 7000 is the loudest Motorola portable available on the market. Dual speakers enable extremely loud, bi-directional audio when needed.

Our radios are equipped with our Noise Reduction Software (NRS) and dual microphones that virtually eliminate ambient background noise from transmissions and improve user safety by making sure transmissions are not only heard, but are clearly intelligible.

#### Advanced Emergency Functionality

We offer several Advanced Emergency features to assist in keeping mission critical users safe. When an emergency call is initiated, other users in a talk group will hear an alert and see the ID in their display. The Emergency Keep Alive feature ensures your emergency call is not dropped, even if the radio power switches OFF. The Emergency with Voice to Follow feature allows communication without pressing the PTT button if needed.

### FUTURE READY INVESTMENT

APX is backward and forward compatible with Motorola SmartNet®, SmartZone® and ASTRO 25 systems and offers future expandability for developing technologies.

#### Standards

APX 7000 supports P25 Phase 1 and is upgradeable to support P25 Phase 2 for better spectrum utilization and double the voice capacity using existing frequencies.

#### Data Capability

The APX 7000 is Integrated Voice and Data ready. With the ability to send and receive data through your trunking or conventional system infrastructure, APX is ideal for text messaging and can be used as an RF modem.

Programming over Project 25 (POP25) allows the radio configuration to be accessed and updated over the air. APX also comes equipped with an integrated GPS receiver for outdoor location tracking.

#### Advanced Encryption

APX 7000 raises the bar on two-way radio security offering FIPS 140-2 Level 3 certification. It includes the simplicity of both Infrastructure and Tactical Over the Air Rekeying (OTAR).

#### Customer Programming Software

Our APX radios utilize new and enhanced CPS software that is user friendly and provides increased speed and efficiency.

The built-in codeplug comparator is designed for easy diagnostics of codeplug differences. The customizable views feature lets users see only the codeplug fields that interest them. An undo/redo function makes changes easy. With Improved Help access, the CPS automatically stays in synch with the user's selections.

### MOTOROLA SERVICES

We stand beside customers at every stage in the system life cycle—including repair and maintenance from over 500 service facilities in 28 countries and depot facilities.

# EXTEND YOUR SAFETY WITH LEADING-EDGE APX ACCESSORIES.

Whether you're heading into a burning building or handling a hostage situation, you can feel secure knowing safety doesn't stop with your APX 7000 radio alone. Our leading-edge accessories were designed as an integral part of our mission critical radios, engineered for exceptional performance and outstanding audio clarity.

What's more, every APX accessory is carefully designed and tested to provide the same high level of performance as your radio. Our innovative IMPRES battery charging and reconditioning system streamlines and automates battery maintenance. It draws on our exclusive technology to communicate between your battery and charger to help lengthen battery life and extend talk time. Rely on APX accessories to ensure your radio will perform exactly as expected, precisely when you need it.

## AUDIO ACCESSORIES

### IMPRES Display Remote Speaker Microphone

This IMPRES-enabled microphone has a display that mirrors the top display of the radio to show zone and channel information at a glance. Meets rugged specifications for immersibility and includes the first rugged submersible audio jack from Motorola.

### Mission Critical Wireless Earpiece

A unique wireless accessory designed specifically for first responders. Seamless, streamlined and encrypted with strong 128-bit keys. This lightweight earpiece can be worn comfortably for long shifts common in public safety and performs well in loud environments.

## BATTERIES

### IMPRES Batteries

IMPRES energy technology maximizes talk time and optimizes battery life. All IMPRES batteries are designed and manufactured to our Proven Tough standards. Choose from high-capacity, rugged (immersible) and intrinsically safe (FM) options.

## CARRY DEVICES

### Leather Carry Cases

Constructed of top-grain leather, our carry cases are designed to withstand the harsh conditions of mission critical use. Flip carry case, fixed belt loop and swivel latch models provide a secure fit in high activity environments.

### Universal Carry Holder

This sturdy hard-plastic case with a belt clip is designed to support the APX 7000 Dual Display portable. The large display remains protected by facing in on the belt. One size fits all available batteries.

## CHARGERS

### IMPRES Dual Unit Charger

The unique, dual-pocket design lets you simultaneously charge primary and secondary batteries. It provides the convenience of a spare battery that is charged and ready to be used at all times. With its IMPRES technology, the dual-unit charger offers advanced features—including the ability to turn on/off reconditioning, reduce reconditioning time and improve energy efficiency.



IMPRES Display Remote  
Speaker Microphone



Mission Critical Wireless  
Earpiece



IMPRES Batteries



Leather Carry Cases



Universal Carry Holder



IMPRES Dual Unit Charger

# APX 7000 PORTABLE RADIOS. SAFETY REDEFINED.

## VISIT APX ONLINE. GET COMPLETE SPECS. SEE 360 DEGREE VIEWS.

Go online to [motorola.com/apx](http://motorola.com/apx) for more information about the APX 7000 Multiband Portable Radio.

- Interactive 360-degree views
- Complete hardware specs, including performance characteristics, physical characteristics and radio features
- Complete list and photos of accessories
- Downloadable product brochures and specification sheets
- Downloadable white papers
- [motorola.com/apx](http://motorola.com/apx)

## TECHNOLOGY THAT'S SECOND NATURE™

At the heart of every mission is the ability to communicate in an instant to coordinate responses 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](http://MOTOROLA.COM/NEXTGEN).**

Motorola Solutions, Inc.  
1301 East Algonquin Road  
Schaumburg, Illinois 60196, U.S.A.  
800-367-2346  
[motorolasolutions.com](http://motorolasolutions.com)

MOTOROLA, MOTO, 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. ©2011 Motorola Solutions, Inc. All rights reserved.

