

Brochure

APX N70

single-band P25 smart radio





Focused. Forward.

Safety and focus on the front line are paramount. Reliable and intuitive communication devices, that are rugged and easy to use, are non negotiable for first responders. Clear communications have proven to be lifesaving in critical moments.

Reliable P25 radios must offer sophisticated features that work within a larger public safety ecosystem while maintaining mission-critical operation. They must deliver actionable intelligence to provide increased situational awareness during an incident.

We've designed our APX N70 smart radio explicitly for this purpose. It provides first responders and other public safety personnel the evolving mission-critical communications and real-time information they need to stay connected and respond safely in any situation.

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Ready for the mission. Made for the environment

Design is more than just being tough. It's also about being simple to use in the most challenging situations that require you to stay focused and ready.

APX N70 is a mission-critical radio, designed and built with legendary APX ruggedness for extreme conditions. It's tested to military standards, rated IP68, supports immersion in 2 meters of water for up to 4 hours, and includes multiple sensors for improved collaboration and tracking. It's the radio public safety responders can rely on as their lifeline on the front line today and tomorrow.

APX N70 is rugged and ready for everyday abuse. But should it fail, we will make it right. Rely on us to help get your radios fixed and back in the field where they belong. Our Hardware Repair and Accidental Damage Protection services deliver predictable costs, to give you peace of mind.

APX N70 thrives with three different ways to interact. In different situations, one method is better than the others – but that's for you to decide.

3 ways to interact.



Hard Controls

Large tactile buttons and controls are set in a familiar layout. Easy to grip and easy to operate, yet protected against accidental activation. Six programmable buttons are placed under the touchscreen allowing users to access their most critical presets.



Touch

Snow, rain and dirt friendly 3" tough glass touchscreen recognizes interaction with gloves and rejects false touches from the elements. With a transfective display, APX N70 is set for indoor and outdoor readability. An intuitive user interface with an easy-to-navigate menu, purpose-built for public safety, keeps interactions simple to be informed while staying focused on their tasks.



Voice

ViQi Voice Control reduces the time to perform simple radio functions with the touch of a button. It can be used to enable radio operation in low or high noise environments – helping maintain eyes-up awareness. The ViQi button allows for quick access to voice controls – enabling first responders to perform actions such as changing zones, channels, checking battery status, and adjusting volume without breaking focus.



Advanced accessories



Audio

With superior audio, the SVX video remote speaker microphone features the ViQi button to enable the same ViQi commands as those supported on the radio. Additional wired or Bluetooth® audio accessories are available.



Carry

Choose from carry cases and belt clips, all designed for easy yet secure access to the APX N70 radio when wearing it on the waist or vest— so your team can stay hands free and focused on the task ahead.



Energy

If the battery dies, it jeopardizes everything. We offer a selection of IMPRES 2 batteries to provide energy for a full shift and a UL DIV 1 option for safety in HAZLOC environments. A choice of charging solutions enables you to charge one or up to six batteries simultaneously, so your radios are always ready for the next shift.



Antennas

Motorola Solutions' redesigned antennas are designed for comfort without compromising performance. Short and flexible, these antennas conform to the users' mission-critical environments.



Adaptive audio that is second to none.

Being able to hear and be heard clearly is vital for the safety of the responder and the success of the response. The APX N70 smart radio and XVP remote speaker microphone provide the loudest and most intelligible audio possible, whatever the environment, so crucial messages always get through.

High Dynamic Range Microphones (HDR)

You can talk into either side of the radio and RSM with strategically placed HDR microphones, which improve intelligibility with extremely loud and soft inputs, and reduce noise and distortion across the range. Even in stressful situations that may lead to screaming, you will transmit more intelligible speech.

Custom Speaker

The custom speaker delivers not only loud, but clear audio for when chaos ensues — because every syllable counts. And due to more intelligible inputs from HDR microphones, the audio emitting from the speaker is clearer as well.

Adaptive Audio Engine

Building upon the latest architecture is our proven APX Adaptive Audio Engine. It dynamically adjusts to give you the best audio in any environment. Sophisticated algorithms filter out unpredictable background noise and wind while working in tandem with the multiple microphones that track your voice from every angle, allowing you to speak into the radio without degrading speech quality.

Audio that responds to your environment

Receive Volume Leveling and Noise Sensing Volume Control, keeps your hands off the volume knob and your attention forward. Set the volume once and the APX N70 radio will automatically adjust for loud or soft talkers, and the changing ambient noise loudness in your surroundings — giving you the right volume at the right time.



Connectivity Maximized.

In order to be ready for the mission, you must have a radio that can interoperate with a variety of systems, devices, sensors and other personnel while keeping communications organized and secure.

Everywhere you operate

Connect to your system's frequency. Operate on any mode or protocol including Analog, Digital P25, Conventional or Trunked. Interop between 3600 and 9600 baud. Connect seamlessly with accessories, sensors and other devices via Bluetooth 5.0 or Wi-Fi. GNSS/GPS enables location tracking for officer safety and efficient task assignment.

Protect sensitive information

Multiple hardware encryption algorithms including 256-bit AES, DES and ADP can be loaded to a MACE hardware encryption module that stores up to 128 keys and meets FIPS 140-3 level 1, level 3 and FIPS 197 standards. Easily, efficiently and securely load and update encryption keys with Touchless Key Provisioning and over-the-air rekeying to protect against eavesdroppers.

Efficient batch programming

Managing a large fleet of radios can be complex, especially when your team requests changes to fielded radios. Leverage RadioCentral or Radio Management to view your entire fleet from a single interface and efficiently push batch programming changes in minutes. Our team of experts is here to guide your transition from CPS to our advanced software programming platforms, whether you use a cable, Wi-Fi or LTE SmartProgramming. We also offer an array of support services to ensure your fleet can be conveniently managed to optimize your communications.

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A lifeline that is flexible and upgradeable

The APX N70 application foundation is designed for extensibility, with feedback from you. Fully flexible with an easily upgradeable platform, the radio gives you the features you need today and is expandable for the features you need tomorrow.

Optional LTE unlocks additional sophisticated capabilities for your most valuable resources in the field.

SmartConnect

When you move beyond the limits of your radio system's coverage, you shouldn't have to leave your lifeline behind. Whether the demands of a call take you in the depths of an urban canyon, or providing mutual aid in the neighboring county, SmartConnect ensures your lifeline is always in reach. Automatic switching between P25 and broadband LTE or Wi-Fi maintains voice communications regardless of radio coverage. SmartConnect P25 packet routing preserves your authentication, status, talkgroups and encryption without interruptions or resets.

SmartLocate

Cutting-edge location routing services sends your radio location data over broadband LTE or Wi-Fi for faster updates and increased efficiency, while expanding the number of devices that can be tracked simultaneously. SmartLocate automatically triangulates radio location using nearby cell towers and Wi-Fi access points for greater accuracy when indoors, deep urban canyons, or forested areas.

SmartIncident

SmartIncident provides this critical information on the radio that responders already carry, reducing the burden of managing multiple devices. Reducing voice traffic between dispatchers and units in the field, SmartIncident frees up radio bandwidth for critical conversations between personnel during an unfolding incident. It also minimizes ambiguity in voice communications, reducing the risk of a misunderstanding or missed information.

SmartMapping

When a call quickly unfolds, keeping track of the big picture can help you stay safe and protect others. Get precise location information on a modern map interface - right on your radio. See your location, find an address, drop waypoints, and stay in touch with the situation. View the location of other units and responders at a glance. Quickly pinpoint colleagues in distress.

ViQi Virtual Partner

A secure cloud service allows you to use voice commands to run database queries for quick access to information – delivering fast, secure and eyes-up intelligence. As ViQi grows, the cloud architecture allows for new capabilities to be deployed quickly and easily without updates to radio software.

SmartMessaging

Turn your radio into a multimedia toolkit. Securely share texts, images, videos and voice notes across your extended team - either with individuals or groups on other radios or smartphones. Need information about an incident? Send a text. Have a citizen who sent in pictures while reporting an incident? Dispatch can share with others responding to the call for better preparation. SmartMessaging is designed specifically for public safety, built right into the APX N70 home screen for quick, intuitive use, while keeping content securely stored for future reference.

SmartProgramming

SmartProgramming coupled with RadioCentral allows initial programming, software, security updates and radio data collection to be sent over LTE. Updates can be sent at anytime, anywhere.





To learn more, visit:
www.motorolasolutions.com/APXN70



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