



# APX N50

SINGLE-BAND P25 PORTABLE TWO-WAY RADIO





## **SIMPLE. RELIABLE.** **SECURE.**

Staying connected and being able to collaborate, whenever, wherever, is a prerequisite for mobile workers.

Efficient teams know every moment counts to connect workers throughout your city - no matter if its day-to-day operations, a power outage, chemical spill or catastrophic storm.

Our APX N50 is a slim yet rugged pick-up-and-go radio that's designed to give first responders, public-safety support and administrative staff secure communications that they can rely on in the field, to stay organized and effectively respond to whatever the day throws at them.

# SLIM AND SLEEK. TOUGH AND POWERFUL.

A super compact, simple layout radio to carry around all day long. Despite its size, it retains the built-in toughness of our APX portfolio with a modern industrial design and familiar control placement.

## TOUGH AS NAILS

This radio is a powerful companion in the field. The APX N50 portable radio is rated IP68, supports immersion in 2 meters of water for up to 2 hours, and tested to military standards so it's ready to operate reliably in challenging environments.

## OPTIMIZING SPACE AND SPEED

The slim design doesn't compromise usability. A variety of features accelerate radio operation to prioritize situational awareness and quick response. Large tactile controls and programmable buttons in a familiar location allow easy access to critical presets. The tough 2.4" front display presents a menu with information at a glance, and the large keypad is easy to navigate from first use, right out of the box.

## CONTROL WITH YOUR VOICE

ViQi Basic Voice Control makes changing radio settings as simple as talking, with a touch of a button and specific voice commands. Easily switch to the home channel or your favorite presets. Adjust the volume, change an audio profile, check battery, or scan multiple channels without taking your eyes off your surroundings.



SOMETIMES ACCIDENTS HAPPEN. RELY ON US TO HELP GET YOUR RADIOS FIXED AND BACK IN THE FIELD WHERE THEY BELONG, WITH PREDICTABLE COSTS TO GIVE YOU PEACE OF MIND, BY CHOOSING HARDWARE REPAIR AND ACCIDENTAL DAMAGE SERVICES.

# ADVANCED ACCESSORIES



## AUDIO

Wired and wireless audio accessories that fit your needs and environment. Choose between remote speaker mics, surveillance kits, headsets and more.



## CARRY

Belt clips designed for a secure hold yet easy access to the radio when worn on the waist or uniform - so your team can keep its hands free and stay focused on the task ahead.



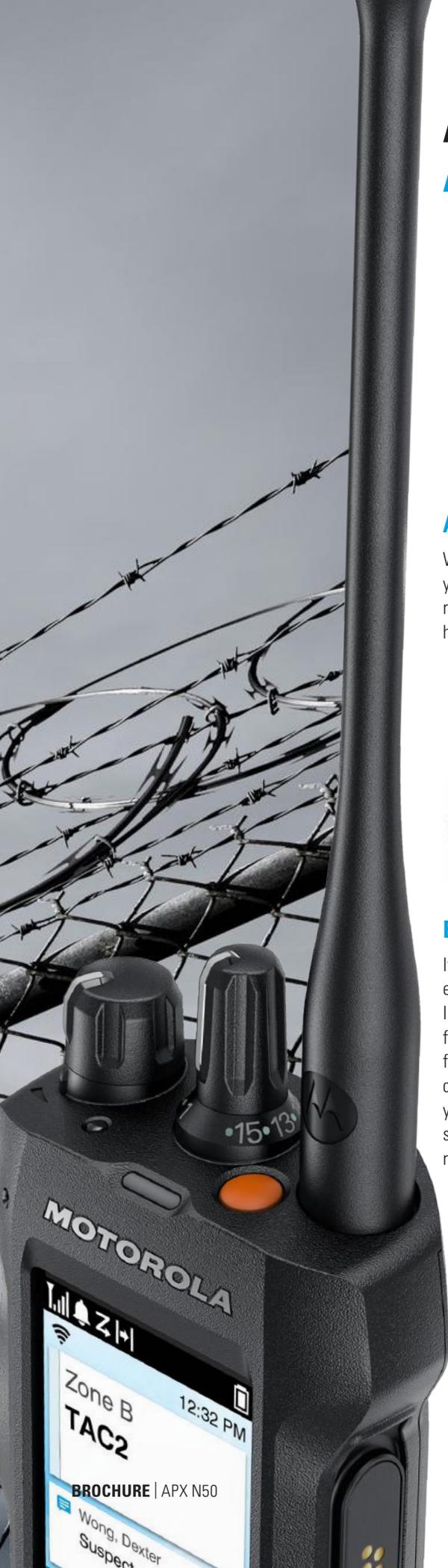
## ENERGY

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

Our redesigned antennas are built for comfort without compromising performance. Short and flexible, these antennas conform to your mission-critical environments.



# SEND AUDIO WITHOUT SECOND GUESSING.

MESSAGES GET THROUGH  
LOUD AND CLEAR IN NOISY  
ENVIRONMENTS.

## HIGH DYNAMIC RANGE MICROPHONES (HDR)

Two high quality mics with a high overload point pick up and reproduce voices with excellent clarity. There's no audio clipping or distortion, even when shouting. A custom speaker delivers not only loud, but clear audio for unruly scenarios - because every syllable counts.

## 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.

## ENVIRONMENTALLY AWARE AUDIO

Additional environmentally aware audio features, Receive Volume Leveling and Noise Sensing Volume Control, keep your hands off the volume knob and your attention forward. Set the volume once and the APX N50 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.

# SECURE COMMUNICATIONS. EFFICIENTLY MANAGED.

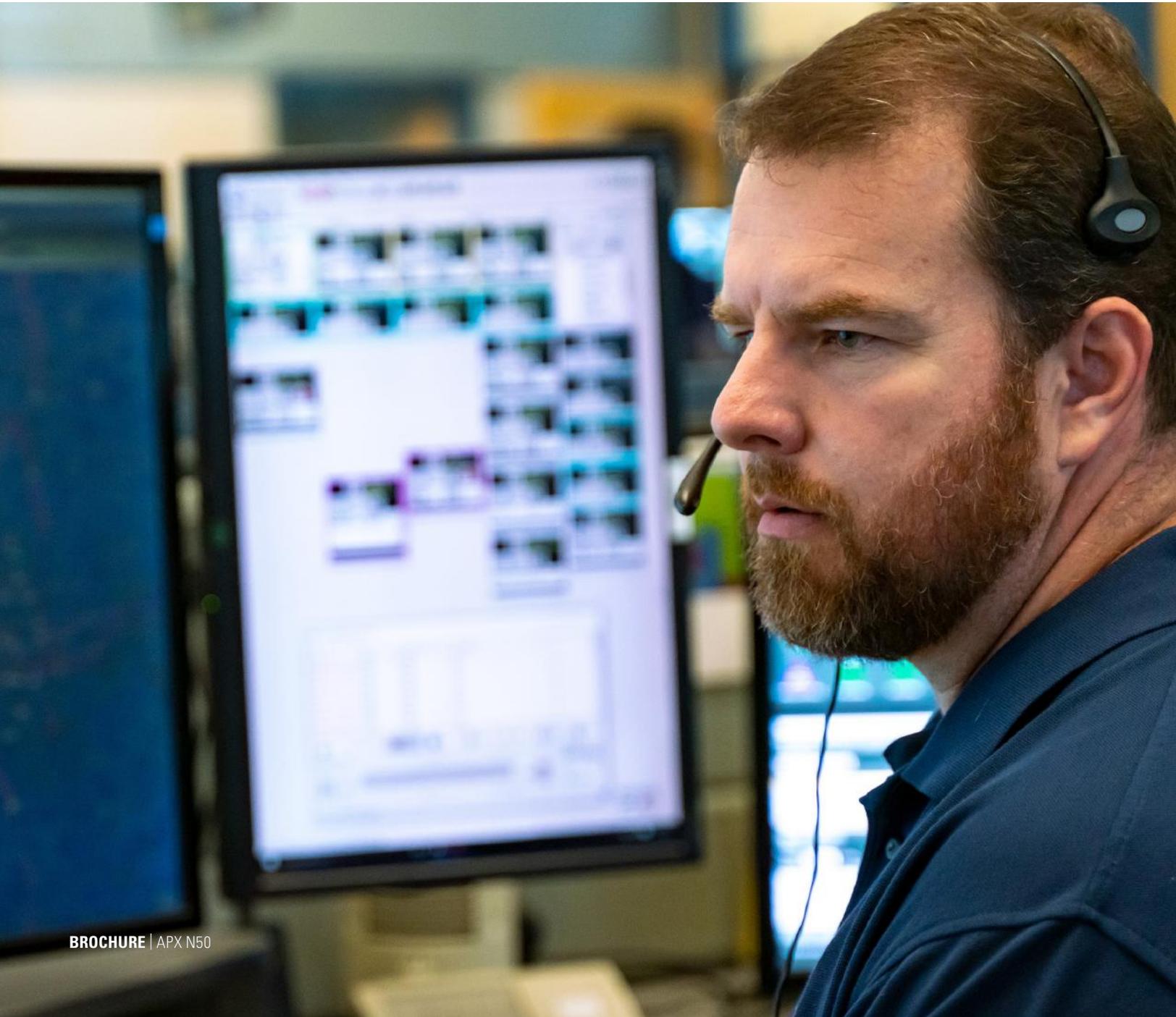
## MACE HARDWARE PROTECTED

Protect sensitive information from eavesdroppers. Multiple hardware encryption algorithms including 256-bit AES, DES and ADP can be loaded to a MACE hardware encryption module that stores up to 48 keys and meets FIPS 140-3 level 1, level 3 and FIPS 197 standards. Securely update encryption keys with over-the-air rekeying (OTAR).

## OPTIMIZE FLEET MANAGEMENT

Optimize fleet management by programming radios online in batches over Wi-Fi or OTAP, or use to CPS for basic one-by-one offline programming.

Managing a large fleet of radios can be complex, especially when your team requests changes to fielded radios. Leverage 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 OTAP.



# CONNECT AND COLLABORATE.

## CONNECT SEAMLESSLY

With the latest collaborative features, the APX N50 is a radio you can rely on to connect teams, agencies and departments across boundaries with fast, interoperable communications. Connect across multiple frequencies, modes and protocols including Analog, Digital P25, Conventional or Trunked.

## COMMUNICATE RELIABLY

With SmartConnect, APX N50 can automatically switch between the P25 radio system and available broadband networks, using Wi-Fi to extend voice channel reach to help highly mobile users retain connection when moving out of P25 coverage. The radio connects seamlessly with accessories, sensors and other devices via Bluetooth 4.2 or Wi-Fi and features GPS location tracking to keep workers safe and improve task assignment.





For more information, please visit us on the web at:  
[www.motorolasolutions.com/APXN50](http://www.motorolasolutions.com/APXN50)



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