



MV-PROTECTOR™

WIRELESS MESH-NETWORK INTERCOM™

WALKIE-TALKIE SHORTCOMINGS

Since their initial deployment during World War II, the *Walkie-Talkie* (and its cousin, the *Handie-Talkie*), have proven invaluable in delivering critical, real-time wireless communications for millions of users across industries such as Military, Public Safety, Manufacturing and more.

The widespread use of these comms devices notwithstanding, all users recognize the **greatest drawback** of such *Push-to-Talk Radios*: the inability to allow more than one person to talk on the same wireless network at the same time. Such full-duplex communications — where two users can simultaneously transmit and receive — has been the unfulfilled promise of PTT Radios since their introduction over 70 years ago.

THE PERFECT COMMS WORLD

In an ideal setting, multiple users would be able to simultaneously speak and listen on the same wireless network at the same time. And they'd be able to do so without being tethered to a separate (and expensive) Base Station.

Even better, such systems would be designed so that users could communicate without needing to use a PTT button or toggle to speak.

COMMS NIRVANA REVEALED

Introducing the MV-PROTECTOR™ from MULTIVOICE. A communications wonder, the MV-PROTECTOR is the world's first Wireless Mesh-Network Intercom™.

Designed specifically for Military and Public Safety use, the patented MV-PROTECTOR is a Full-Multiplex™ communications device that allows groups of up to forty-three (43) users to simultaneously and securely transmit and receive on the same wireless network at distances of up to one (1) mile.

Additionally, MV-PROTECTOR networks can support an unlimited number of listeners at the same time, while also allowing speakers to switch into Listen Mode as a former Listener becomes a Speaker.

If required, MV-PROTECTOR users also have the ability to create *on-the-fly* Private Rooms for temporary communications among two (2) or more users.

OVERCOMING THE PTT BARRIER

Unlike the limitations imposed by traditional PTT or P25 Radios, the

MV-PROTECTOR utilizes a patented *Switch-to-Talk™ (STT™)* method to allow users to flip a switch once to leave or enter talk mode on its Wireless Mesh-Network. As a result, in EMS, Fire, Police and Military environments where users cannot use their hands to operate a comms device, the MV-PROTECTOR provides a new level of safety not previously available.

Additionally, with MULTIVOICE's MV-COMBINER™, millions of PTT- or P25-Radio users can now augment their PTT or P25 networks with the Wireless Mesh-Network Intercom capabilities of the MV-PROTECTOR — enhancing and expanding in-field communications to new heights.



LEARN MORE

To learn more about the MV-PROTECTOR or to find a MULTIVOICE dealer in your area, please visit www.MULTIVOICE.com or call 385-236-5111.





MV-PROTECTOR™

WIRELESS MESH-NETWORK INTERCOM™

OVERVIEW

The MV-PROTECTOR™ Wireless Mesh-Network Intercom™ allows up to forty-three (43) Public Safety or Military users to simultaneously talk and listen securely on the same hands-free network without requiring a Base Station at distances of up to one mile (1) apart. Additionally, an unlimited number of Listeners can use the same wireless network, while also allowing Listeners to become Speakers as previous Speakers drop into Listen Mode.

PHYSICAL CHARACTERISTICS

Dimensions: 5.3x3.3x1.3-inches

Encasement:

- Command—Polycarbonate - ABS Blend
- Squad—Polycarbonate - ABS Blend

Weight: 15.98 ounces

Antenna: 3.5-inches high

Connectors:

- Antenna — HIROSE screw-on connector
- Headset Cable — HIROSE locking connector
- USB — miniUSB port

POWER

Batteries:

- Two (2) internal, rechargeable 3000mAh Lithium-Polymer batteries
- Rechargeable via miniUSB port
- **Talk Time:** Up to 18 hours

FUNCTIONAL CAPABILITIES

Up to forty-three(43) simultaneous Speakers

Unlimited number of Listeners

Speakers can enter Listen Mode

Listeners can become Speakers [must have at least one (1) Talk Slot available]

Two (2) or more users can create a temporary Private Room for private/secure conversations

Can create/maintain up to five (5) Private Rooms simultaneously

INTERCOM CONTROLS

On/Off Power Button

Volume Up Button and Volume Down Button

Channel Button

Switch-to-Talk™/Mute Button

Six (6) LED indicator lights

TECHNICAL CHARACTERISTICS

Maximum Output: 500mW

Range: Up to one (1) mile between users

Frequency: 900MHz band (902—928MHz)

Frequency Controls:

- TDMA (Time Division Multiplex Access)
- FDMA (Frequency Division Multiplex Access)
- Frequency-Hopping Spread Spectrum (every 30 milliseconds)
- Proprietary wireless communication protocols, including auto-detect and shift-synchronization to automatically maintain connectivity within each mesh-network while preventing jamming and eavesdropping

Proprietary auto-volume normalization

