

# MOTOTRBO™ Two-Way Radios for stadiums





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# MOTOTRBO Two-Way Radios at a glance

Amidst the crowded parking lots and manicured playing fields of a stadium, where safety and clear communication are critical, your teams must be equipped with technology that can provide instant, reliable communication at all times. MOTOTRBO two-way radios offer advanced communication and are engineered to bridge the gap between venue managers and emergency response teams to maintenance and security personnel. With features like long battery life, clear audio, and emergency signaling, these radios ensure that all stadium staff and fans can quickly connect with each other in any situation.

## MOTOTRBO radios

### Commercial Voice



CP 100d

CP 100d

CP 100d

SL 300

R2



CM300d

CM200d

### Premium Voice, bandband data, androids



ION

### Entry professional Voice basic system



R5

R5



XPR 2500

\*for use in buses

### Professional Enhanced Superb voice, enhanced data, systems, features



R7

R7



XPR 5550e  
XPR 5580e

\*for use in buses



XPR 5000E HCH

\*for use in buses



XPR 5550e  
XPR 5580e

\*for use in buses



# Capabilities

## Data

Motorola Solutions' two-way radio portfolio helps address the complex communication needs of stadiums. Our specialized devices combine robust data handling and secure voice communication, plus text messaging for times when more discreet communication is needed, reducing the need for multiple devices and ensuring reliability in critical situations on private networks.

## Converged vs collaborative

**Converged devices**, like **MOTOTRBO Ion**, combine the benefits of two-way radio and smartphones to offer data and voice, with renowned Push-to-Talk (PTT) performance, an open app ecosystem on the Android platform, and access to Motorola Solutions' safety & security ecosystem.

**Collaborative devices**, like **R7**, are designed to complement more data-intensive devices in your fleet, and also collaborate with other tools like body cameras, video security, sensors, etc. More on that in the next section.

## Audio

Clear audio is among the most prominent radio features for both the end-user and the buyer. The ability to hear and be heard the first time is crucial for the safety of your staff, fans and players. All MOTOTRBO radios have basic noise-canceling features, but more advanced features are available with higher-tier radios.

## Connected ecosystem

The MOTOTRBO portfolio connects to other technology in the **Motorola Solutions safety & security ecosystem**, enhancing your stadium's communication investment by linking critical systems like video security and access control with two-way radios and body cameras for proactive incident prevention. For example, a single push on the radio emergency button sends an alert and simultaneously starts recording on a paired VB400 body camera to capture an incident as it unfolds. Utilizing **Orchestrate**, radios can receive automatic text alerts from cameras and sensors, while computer-aided dispatch enables desktop management of voice communications. Plus, broadband push-to-talk solutions can further extend the network's reach beyond traditional radio systems.







“ Hazardous location certifications are sought after for environments where flammable or explosive gasses, liquids, dust, or “flyings” may be encountered. Health and safety regulations often mandate that products used in these areas must be HazLoc-certified.

# Understanding device durability

Stadium communication devices need to be robust and reliable to handle the diverse and dynamic stadium settings. IP (Ingress Protection) ratings serve as a benchmark for device durability, with the first digit indicating defense against solid objects and the second against liquids. MOTOTRBO radios range from IP54 to IP68.

#	OBJECT SIZE	EXAMPLE
0	–	No protection against contact and ingress of objects
1	>50 mm	Protected against large objects
2	>12.5 mm	Protected against fingers
3	>2.5 mm	Protected against tools
4	>1 mm	Protected against wires
5	Dust	Dustproof: Dust may enter, but not enough to interfere with product operation
6	Dust	Dust-tight. No dust may enter

#	PROTECTION
0	Not protected against liquid intrusion
1	Protected against vertical dripping water
2	Protected against water dripping at an angle
3	Protected against spraying water
4	Protected against splashing water
5	Protected against water jets
6	Protected against powerful water jets
7	Protected against immersion (up to 1m / 3ft for 30 mins)
8	Protected against immersion (beyond 1m / 3ft - Motorola tests to 2m / 6.6 ft for 2 hrs)

Hazloc certified models are available starting at the entry professional tier and up. Intrinsically safe\* models are professional enhanced tier and up.

\*Intrinsically Safe is an equipment design protection method for Division 1 which encompasses hazards that may be present under normal operating conditions or frequently present during maintenance and repair work



# Connectivity

## Direct mode/single site conventional

Each MOTOTRBO radio can talk to other radios directly, without repeaters or radio systems, and they work well with single-site conventional systems (local network systems). These basic systems enhance direct radio chats by using a powerful repeater to boost the signal, which improves range and gives more control over communications. Our two-way radios are built to operate both in this straightforward direct radio-to-radio mode and within these local, single-location networks.

## MOTOTRBO DMR Systems

MOTOTRBO systems offer several advantages over conventional systems and direct mode, such as more user capacity, customized coverage and increased control. Systems can be deployed for single- or multi-site, employing dynamic trunking to increase capacity, for up to 750 sites, with up to 3000 users per site. MOTOTRBO systems are the backhaul for not only voice but also data for a network of applications developed specifically for radio users. Our entry-level professional radios are designed for use on our Capacity Plus Systems, and professional enhanced radios for Capacity Max systems.

## Wi-Fi

Wi-Fi allows radio managers to update radios from a distance quickly without needing to collect them, and it's available for both setting up the radios and for push-to-talk (PTT) services through WAVE PTX on the advanced models. PTT over WAVE PTX helps cover areas where the normal radio system might not work. Full Wi-Fi data is available on the Premium tier with MOTOTRBO Ion.








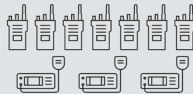
## LTE

WAVE PTX is our push-to-talk (PTT) over LTE service, a feature that lets MOTOTRBO radios from the professional enhanced tier upwards communicate nationwide. MOTOTRBO Ion offers complete Wi-Fi and LTE data capabilities, which means they can use mobile networks for communication and can be updated or programmed much faster over LTE.

## Bluetooth

Bluetooth connectivity allows MOTOTRBO devices to connect to audio and data applications. Wireless Bluetooth accessories, such as remote speaker microphones and headsets, are an attractive option to enhance the audio experience.

## Systems

Single site conventional	IP site connect	Capacity plus (single & multi)	Capacity max
Conventional		Trunking	
			
Site 1	1-5 Sites	1-15 Sites	1-250 Sites
			
Up to 200 users	Up to 200 users	Up to 1600 users/site	Up to 3000 users/site
Baseline coverage	Extended coverage	Cost-effective coverage and capacity	Coverage, capacity and control





# Coverage

## Customized coverage with MOTOTRBO

MOTOTRBO systems provide personalized voice communication networks that ensure your staff stays in touch, no matter their location. These systems combine superior signal strength with the flexibility to customize site coverage, a predictable cost structure built around your needs, the control to decide which features and which devices go on your network, capacity for as many devices as your team needs, and the capabilities to ensure that your team is only a button's push away.

## Interoperability

While all our DMR radios are designed to an international standard that enables interoperability between different brands — both systems and devices — MOTOTRBO radios have the ability to work in conjunction with a number of different devices over broadband data networks thanks to WAVE PTX. Our WAVE PTX application gives the ability for smartphones, tablets, and other devices to connect with MOTOTRBO over LTE and Wi-Fi.

## Device handover

DMR, Wi-Fi, and LTE all provide the option for voice interoperability through MOTOTRBO, but handover between these devices requires manual intervention from the end-user. MOTOTRBO Ion's Seamless Voice Handover maintains your voice communications by automatically switching to broadband when your radio signal fades. Authentication, status, talkgroups, and encryption are all preserved, without interruptions or resets.



# Our top MOTOTRBO picks for stadiums



## MOTOTRBO Ion

**MOTOTRBO Ion** smart radio is a cutting-edge communication tool that combines instant push-to-talk communication with the versatility of smartphone-like features, running on the familiar Android platform and offering access to a wide range of apps. This device seamlessly connects with Motorola Solutions' safety and security ecosystem, providing stadiums with access to video security footage, video analytics, secure networking, and innovative services such as intelligent virtual assistants to enhance the stadium environment's safety and efficiency.



## MOTOTRBO R7

**MOTOTRBO R7** is a robust, digital two-way radio, delivering exceptional audio clarity for reliable communication among stadium staff. Built to endure the exciting atmosphere of a stadium, this durable device ensures that messages come through loud and clear, even in noisy surroundings. With forward-thinking connectivity features, the R7 equips stadium staff with a communication tool that is prepared for the evolving demands of the stadium landscape.



## MOTOTRBO R5

**MOTOTRBO R5** helps connect your team to help boost efficiency and safety with loud, clear audio that cuts through background noise. Designed with intuitive status indications and controls so staff can focus on their tasks, this tough, compact device is built to last. Designed to help your stadium staff stay connected across operations.



## MOTOTRBO SL3500e

The **MOTOTRBO SL3500e** portable two-way radio is a sleek, discreet communication tool perfectly designed to meet the needs of stadiums. Its slim profile and light weight make it unobtrusive, ensuring that staff can carry it throughout the day without it being a burden. The radio is designed with a virtual keypad and display that allows users to navigate through channels and features, facilitating quick communication. With advanced audio quality, the SL3500e ensures that messages are heard clearly, and its integrated Wi-Fi and Bluetooth capabilities allow for seamless connectivity, integrating smoothly into the daily activities of stadium staff.







# MOTOTRBO radio tier comparison



	ENTRY PROFESSIONAL (R5)	ENTRY PROFESSIONAL (SL3500e)	PROFESSIONAL ENHANCED (R7)	PREMIUM (ION)
Adaptive Dual Microphone Noise Suppression	X	X	✓	✓
Automatic Acoustic Feedback Supression	✓	X	✓	✓
Color Display	X	X	✓	✓
Broadband (LTE/Wi-Fi) Data	X	X	X	✓
Bluetooth	✓	X	✓	✓
Android OS / Google Play Store	X	X	X	✓
Video Streaming	X	X	X	✓
Automated Analytic Alerting (Orchestrate)	✓	X	✓	✓
IP Rating	IP67	IP54	IP68 & IP66	IP68
Fall Alert	X	X	✓	✓
Lone Worker	✓	✓	✓	✓
HazLoc Certified	✓	X	✓	✓
Intrinsically Safe	✓	X	✓	✓
Direct Mode	✓	✓	✓	✓
Single Site Conventional	✓	✓	✓	✓
IP Site Connect	✓	✓	✓	✓
Capacity Plus	✓	✓	✓	✓
Capacity Max	X	X	✓	✓
Seamless Voice Handover	X	X	X	✓







# What's next?

## Bring MOTOTRBO to your stadium

Motorola Solutions and our extensive network of partners are here to help. Get started by reaching out to our team at Motorola Solutions. Our team of experts will work with you to understand the unique needs of your stadium and help you uncover the best options to maximize your technology investment.

**Contact us** today to get in touch with a Motorola Solutions representative.



Motorola Solutions, Inc. 500 West Monroe Street, Chicago, IL 60661 U.S.A. [motorolasolutions.com](https://www.motorolasolutions.com)

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