

Brochure

EMEA



# Meeting maritime communication requirements with MOTOTRBO™ two-way radios

When operating in unpredictable seas, clear communications are critical for crew safety and productivity. UHF is the optimal frequency in these settings because its shorter wavelength penetrates steel structures, such as decks and bulkheads, more effectively than VHF.

Our robust, high-performance MOTOTRBO™ two-way UHF radios and associated accessories ensure your crew remains connected and compliant, as they meet both SOLAS regulations and ETSI, EN, IEC standards. The updated MOTOTRBO portfolio includes several models which have been specifically certified for maritime use.

## Reliable crew communications: focus on the MOTOTRBO R5 and R7

The MOTOTRBO R5 and R7 series are engineered specifically to withstand the rigours of life at sea. Combining rugged durability with sophisticated audio technology, these radios ensure that your crew remains connected and compliant in even the most harsh conditions.

These flexible, high-performance radios:

- **Are maritime-tested** to ETSI EN 300 720 V2.1.1 and IEC / EN 60945:2002 standards
- **Boast extreme durability**, having been awarded the highest Military Standards (MIL-STD 810H)
- **Feature superior ingress protection**, R5 and R7 are both dust-tight and waterproof, and R7 is also IP66 rated to withstand damage from jets of water
- **Meet intrinsically safe regulation** UL TIA-4950 standards for operation in hazardous environments when equipped with the Motorola UL-Approved battery
- **Utilise AI-trained noise suppression** to deliver crystal-clear audio in high-noise areas like engine rooms
- **Operate reliably** in demanding maritime conditions, including extreme humidity, wide temperature fluctuations, vibrations, sea spray and electromagnetic influences
- **Ensure dependable crew coordination** while ensuring compliance with relevant regulations



# Firefighter communications: introducing the MOTOTRBO R7Ex

The MOTOTRBO R7Ex is a mission-critical UHF radio purpose-built for maritime firefighting and emergency response. This intrinsically safe device combines specific safety features with uncompromising hardware to protect those who protect the ship.

Our rugged R7Ex UHF IIC radio:

- **Meets stringent global safety standards**, carrying both ATEX and IECEx certifications for operation in hazardous and potentially explosive environments
- **Ensures full regulatory alignment**, being MED/5.20 and UK/5.20 certified to meet relevant maritime safety requirements, and holds both the Wheel Mark and Red Ensign Mark
- **Supports SOLAS compliance**, strictly adhering to SOLAS Chapter II-2 regulations for onboard firefighting communications
- **Withstands extreme physical stress**, engineered to the highest Military Standards (MIL-STD 810H) for impact and heat resistance
- **Delivers industry-leading ingress protection** with IP66 and IP68 ratings, ensuring reliable performance even after submersion or exposure to high-pressure water jets
- **Prioritises user safety**, with features such as a dedicated emergency button and integrated Fall Alert and Lone Worker alarms



## Safe Return to Port

Our rugged R7Ex UHF IIC radio can also be used as part of a wider SRtP (Safe Return to Port) system to help vessels meet IMO/SOLAS SRtP requirements



## Customise user experience with certified accessories

We have a full range of MOTOTRBO accessories, including Savox and 3M™ PELTOR™ headsets, that are approved and certified for use with our radios. This ensures you have the ideal total solution for all your crews, from on-board firefighting teams, deck hands and engine room staff, to offshore workers.



**NS750Ex RSM with large front PTT button**



**Savox HC-10 single speaker bone conduction headset**



**Savox HC-20 dual speaker bone conduction headset**

## The ideal solution for maritime firefighting teams

Pair a MOTOTRBO R7Ex with an NS750Ex IMPRES™ ATEX omnidirectional remote speaker microphone (RSM) that features a large front PTT, plus a Savox HC-10 or HC-20 helmet-attach bone conduction headset



# The Motorola Solutions difference:

A growing number of tankers, commercial and supply vessels, workboats, tourism vessels, offshore and other maritime operators are deploying our MOTOTRBO radios, as we offer much more than just maritime compliance:



## Durability

We are committed to producing high-performance radios, focusing on rugged engineering, durability and superior audio and battery technology. Our radios are certified to all relevant regulations and designed to endure our unique Accelerated Life Testing (ALT) that simulates 5 years' real-world use

## Safety features

MOTOTRBO radios feature advanced emergency capabilities designed for safety, including dedicated orange emergency buttons, Fall Alert (tilt/motion sensor), and Lone Worker (activity timer) functionality

## Strategic partnerships and support

Our products are compatible with a wide range of accessories and systems, which makes them ideal for use in maritime environments. Moreover, we work with an established network of maritime partners for localised bespoke support

## Advanced audio

With features such as AI-trained noise suppression, loud volume and automatic feedback suppression for superior voice intelligibility, our radios make sure your teams can hear and be heard in the noisiest of environments

## Scalability

Whether you need just two on-board radios to meet SOLAS requirements, a fully connected network with repeaters and a distributed antenna system (DAS), or a flexible system that can adapt over time, we have a solution for you



# MOTOTRBO - maritime certified digital radios



## GENERAL SPECIFICATIONS

	MOTOTRBO R5	MOTOTRBO R7	MOTOTRBO R7Ex
Safety compliance	UL TIA-4950 option	UL TIA-4950 option	ATEX & IECEx MED/5.20 Wheel Mark UK/5.20 Red Ensign Mark
Maritime assessments	ITU-R M.1174-4 ETSI EN 300 720 V2.1.1 IEC / EN 60945:2002	ITU-R M.1174-4 ETSI EN 300 720 V2.1.1 IEC / EN 60945:2002	ITU-R M.1174-4 ETSI EN 300 720 V2.1.1 IEC / EN 60945:2002
IP specifications	IP67	IP66 / IP68	IP66 / IP68
Military Standard	MIL-STD-810C/D/E/F/G/H	MIL-STD-810C/D/E/F/G/H	MIL-STD-810C/D/E/F/G/H
Supports UHF for use on board	●	●	●
Battery life	Up to 32 hrs	Up to 29 hrs	Up to 24 hrs
Dual-mode (digital and analogue)	●	●	●
AI-trained noise suppression	●	●	●
Dedicated orange emergency button	●	●	●
Lone Worker	●	●	●
Fall Alert	—	●	●
Wi-Fi	●	●	●
Bluetooth	●	●	●
Indoor positioning (via Bluetooth)	●	●	●

● Supported — Not Supported



The usage of non-compliant equipment can impact the safety of people and potentially invalidate insurance or vessel certification.



To learn more, please [contact us](#)



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