zenitel

DATASHEET



1016508

MOTOTRBO R5 UHF NKP

UHF Radio without Display or Keypad

- 400–527 MHz
- 64 channels
- No-display, no-keypad design
- Glove-friendly controls and programmable buttons
- 2200 mAh IMPRES Li-ion battery
- AI-trained noise suppression
- Programmable audio loudness up to 106 phons
- IP67 dust and water protection

UHF Marine IP67 Active Noise Cancelling

Description

The MOTOTRBO R5 UHF NKP is a digital portable two-way radio without a display or keypad. Clear audio, straightforward controls and a compact, rugged design support everyday communication for crews working onboard vessels, in ports and across industrial facilities.

MOTOTRBO R5 UHF NKP

The MOTOTRBO R5 UHF NKP provides straightforward push-to-talk communication with rotary volume and channel controls. A large, tactile push-to-talk button makes operation easier when wearing gloves, while programmable buttons provide shortcuts to frequently used features.

AI-trained noise suppression helps reduce background noise from machinery and other equipment. A wideband speaker

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delivers programmable audio loudness up to 106 phons, while IMPRES audio and Received Audio Levelling help maintain consistent speech levels. Intelligent Audio adjusts speaker output to changing background noise in digital mode.

With 64 channels and support for both analogue and digital operation, the R5 UHF NKP can be used within existing systems and during migration to digital communication. Its compact form and simple controls suit personnel who primarily need voice communication.

The R5 is rated IP67 and tested to MIL-STD-810H for demanding working conditions. The supplied 2200 mAh IMPRES battery provides a typical runtime of 20 hours in digital mode or 15.5 hours in analogue mode under Motorola's specified test conditions. R5 UHF models are maritime certified to EN 300 720 V2.1.1 and IEC/EN 60945:2002 for use onboard vessels.

Model note: This is the version without a display or keypad. This configuration does not include GNSS, Bluetooth or Wi-Fi.

Included in delivery: 2200 mAh IMPRES Li-ion IP67 battery (PMNN4888A), stubby antenna (PMAE4070A), 2.5″ belt clip (PMLN7008A) and dust cover.
Charger sold separately.

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Specifications

GENERAL SPECIFICATIONS

Frequency Range	400–527 MHz
Display	No display
Keypad	No keypad
Channel Spacing	12.5 kHz, 20 kHz, 25 kHz
Channel Capacity	64
Zone Capacity	4
Dimensions (H × W × D)	122 × 56 × 35 mm
Weight with 2200 mAh Battery	269 g
Battery	IMPRES Li-ion IP67, 2200 mAh (PMNN4888A)
Digital / Analogue Battery Life	20 / 15.5 hours*
Location Tracking	Not included

TRANSMITTER SPECIFICATIONS

RF Power Output (High / Low)	4 W / 1 W
Digital Protocol	ETSI TS 102 361-1, -2, -3; DMR Tier II
Frequency Stability	±0.5 ppm

RECEIVER SPECIFICATIONS

Analogue Sensitivity (12 dB SINAD)	0.16 µV
Digital Sensitivity (5% BER)	0.14 µV
Spurious Rejection (ETSI / TIA603E)	70 dB

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AUDIO SPECIFICATIONS

Audio Output Power (Rated / Maximum)	1 W / 3 W
Audio Distortion at Rated Audio	≤3%
Maximum Speech Loudness by Default	101 phons at 30 cm
Maximum Programmable Speech Loudness (Digital)	106 phons at 30 cm
Noise Suppression	AI-trained noise suppression and single microphone noise cancellation (SINC+)

ENVIRONMENTAL SPECIFICATIONS

Operating Temperature with Supplied Battery	–20 °C to +60 °C
Storage Temperature	–40 °C to +85 °C
Dust and Water Protection	IP67
Ruggedness	MIL-STD-810H
Electrostatic Discharge	IEC 61000-4-2 Level 4
Salt Fog	5% NaCl for 8 hours at 35 °C, followed by 16 hours standing

MARITIME CERTIFICATION

Maritime Standards	EN 300 720 V2.1.1; IEC/EN 60945:2002

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