

# MOTOTRBO™ R5 portable two-way radio

Presenter name

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# Introducing MOTOTRBO™ R5



## Introducing MOTOTRBO R5

MOTOTRBO R5 connects teams, helping boost efficiency and safety with loud, clear audio that cuts through background noise, plus intuitive status indications and controls so workers can focus on their tasks, all in a tough, compact device that's built to last.



# MOTOTRBO R5

## Key messaging



# MOTOTRBO R5 key messaging



Cut through  
the noise

- Loud
- Clear
- Consistent



Focus on  
the task

- Optimized controls
- Long talk-time
- Connected



Built to  
last

- Durable
- Reliable
- Safe



# MOTOTRBO R5

## Key features



# MOTOTRBO R5 key features

Rugged to IP67, MIL STD 810H

Large tactile PTT button

Two side programmable buttons

Label recess for NFC option

Up to 32 hour battery runtime<sup>1</sup>

Tri-colored status LED

AI-trained noise suppression

Loud audio up to 106 phons

1.5" 132x48 px  
3-line display<sup>2</sup>

Menu navigation keys<sup>2</sup>

Two front  
programmable buttons<sup>2</sup>

Orange emergency button

Bluetooth 5.2

Robust accessory connector

Wideband loudspeaker

Wi-Fi 2.4/5GHz, WPA3

Intrinsically safe option (UL/CSA)

1. Typical battery life, 5/5/90 profile at maximum transmitter power with Bluetooth, Wi-Fi and Option Board applications disabled. Actual observed runtimes may vary.

2. LKP model only.



# MOTOTRBO R5

Product details



# Cut through the noise

Loud audio

Be heard over high-noise backgrounds

- Default maximum loudness 101 phons<sup>1</sup>
- Programmable extra loud profile up to 106 phons

1. The phon is a subjective measure for sound loudness that takes into account the frequency sensitivity of the human ear.



# Cut through the noise

## AI-trained noise suppression

### Suppress background noise

- Advanced software algorithm embedded on the radio
- Distinguishes between voice and surrounding noise
- Enhances voice clarity while suppressing background noise

### Selectable suppression level

- Set using CPS/RM or in the radio's display
- Level 1 - some background (contextual awareness)
- Level 2 - maximum noise reduction (clearest voice)

### Works on radio and with selected accessories

- Radio only
- Remote speaker microphones (RM560 and RM530)
- 2-wire surveillance earpiece (PMLN7269ANS)



# Cut through the noise

AI-trained noise suppression

Hear the difference with AI-trained noise suppression

In a busy loading bay, background noise from traffic and heavy machinery makes it hard to hear what's being said

AINS removes the background noise so messages are easier to hear

Click on the loudspeaker icons to hear the messages with AINS OFF or ON (clips may take a few seconds to load)



# Cut through the noise

## Consistent audio levels

R5 has a suite of other audio features designed to give optimal performance in a wide range of operating conditions



### Intelligent Audio

automatically adjusts speaker volume depending on background noise levels



### Automatic Acoustic Feedback Suppression

cancels out feedback from other close-by radios



### Received Audio Leveling

automatically modifies speaker volume based on loudness of the received signal



### IMPRES™ Audio

matches radio and accessory characteristics for improved performance



# Focus on the task

## Selectable display configuration

### 1.5" monochrome display

- Clear status and call information

### User selectable configuration

- 2- or 3-line configuration to match user preference

### Tri-color status LED

- Bright LED provides visible indication of radio status



3-line configuration

2-line configuration



# Focus on the task

## Optimized controls

### Orange emergency button

- Dedicated button makes calling for help easier
- Frees up other programmable buttons to be assigned to more functions

### Large, tactile PTT button

- Firm, dependable action for reliable call initiation

### Rotary on/off/volume and channel selector knobs

- Easy to use even wearing gloves

### Large keypad

- Intuitive layout for easy on-screen navigation and control



# Focus on the task

## Long talktime

- Long-lasting 2200 mAh and 3200 mAh battery options
- Intrinsically safe battery option for use in hazloc areas

IMPRES Li-Ion  
3200 mAh battery

DIGITAL  
32 / 30 hours  
VHF / UHF

ANALOG  
24 / 23 hours  
VHF / UHF

Slim IMPRES  
2200 mAh battery

DIGITAL  
21.5 / 20 hrs  
VHF / UHF

ANALOG  
16 / 15.5 hrs  
VHF / UHF



# Focus on the task

## Connected

### Bluetooth 5.2

- Connect to a range of wireless accessories
- Supports Bluetooth Low Energy

### Wi-Fi

- Supports both 2.4 GHz and 5 GHz to help reduce channel congestion
- WPA2 and WPA3 for enhanced Wi-Fi security



# Focus on the task

Connected

## NFC/RFID

- RFID and NFC passive tags available as aftermarket kits
- Tag type and placement selected and tested to ensure they cause no interference to, or impact on, radio performance
- Allows R5 to be integrated with customer asset management and tracking systems



# Built to last

Durable and reliable

Designed to withstand tough conditions in the workplace

- IP67 dust-tight and waterproof
- MIL STD 810C, D, E, F, G, H across 11 categories
- Motorola Solutions ALT
- Robust accessory connector



# Built to last

## Software security

R5 is designed with software security in mind

- Secure Processor
  - Only allows software validated and signed by Motorola Solutions to run on R5
- Secure Enhanced Linux operating system (SE Linux)
  - Hardened version of the operating system with improved access controls to reduce the risk of tampering with application data and damage from malicious or flawed applications
- Software Developed under the NIST Cybersecurity Framework
  - Holistic, risk-based approach focuses on mitigation options, continuous monitoring, diagnosis and remediation to evolve security practices



# Built to last

## Intrinsic safety

Intrinsically safe certified for use in hazardous locations

- ANSI/TIA4950 and CAN/CSA C22.2 No. 157-92
  - Class I, II, III
  - Division 1, Groups C, D, E, F, G
  - Division 2, Groups A, B, C, D
- Certification applies when the radio is properly equipped with its Motorola Solutions UL-Approved battery



# Specifications

SPECIFICATIONS	R5 LIMITED KEYPAD MODEL (LKP)		R5 NON-KEYPAD MODEL (NKP)	
Frequency	136-174 MHz	400 - 512 MHz	136-174 MHz	400 - 512 MHz
High Power Output	5 W	4 W	5 W	4 W
Low Power Output	1 W			
Channel / Zone Capacity	256 / 50		64 / 4	
Maximum Loudness	101 phons @ 30 cm by default, user programmable to 106 phons @ 30 cm			
Digital Protocol	ETSI TS 102 361-1, -2, -3 DMR Tier II			
Wi-Fi	2.4 GHz, 5 GHz Wi-Fi 5 / IEEE 802.11a/b/g/n/ac, WPA3, WPA2			
Bluetooth	5.2, Simultaneous connections: 1 audio accessory and up to 4 data devices			
Operating Temperature <sup>2</sup>	-30 °C to 60 °C (-22 °F to 140 °F) Radio only - battery minimum operating temperature -20 °C			
<b>MOTOTRBO R5 WITH SLIM IMPRES LI-ION IP67 2200 MAH BATTERY (PMNN4888)</b>				
Dimensions (h x w x d)	122 x 56 x 35 mm (4.82 x 2.2 x 1.37 inches)			
Weight	285 g (10 oz)		269 g (9.5 oz)	
Battery life <sup>1</sup> (digital/analog)	21.5 / 16 hours	20 / 15.5 hours	21.5 / 16 hours	20 / 15.5 hours
<b>MOTOTRBO R5 WITH IMPRES LI-ION IP67 3200 MAH BATTERY (PMNN4889)</b>				
Dimensions (h x w x d)	122 x 56 x 41 mm (4.82 x 2.2 x 1.6 inches)			
Weight	318 g (11.2 oz)		301 g (10.6 oz)	
Battery life <sup>1</sup> (digital/analog)	32 / 24 hours	30 / 23 hours	32 / 24 hours	30 / 23 hours
<b>MOTOTRBO R5 WITH IMPRES LI-ION IP67 TIA4950 3200 MAH BATTERY (PMNN4890)</b>				
Dimensions (h x w x d)	122 x 56 x 41 mm (4.82 x 2.2 x 1.6 inches)			
Weight	332 g (11.7 oz)		315 g (11.1 oz)	
Battery life <sup>1</sup> (digital/analog)	32 / 24 hours	30 / 23 hours	32 / 24 hours	30 / 23 hours

<sup>1</sup> Typical battery life, 5/5/90 profile at maximum transmitter power with Bluetooth and Wi-Fi disabled. Actual observed runtimes may vary.



# Motorola Solutions ecosystem

Tap into Motorola Solutions full safety and security ecosystem

We build and connect technologies to help protect people, property and places, enabling critical collaboration between public safety agencies and enterprises for a proactive approach to safety and security.



# Motorola Solutions ecosystem

## MOTOTRBO R5 within the ecosystem

### Radio Alert

- Automated text alerts of critical events to single user or talkgroup

### Orchestrate workflow automation tool

- Automated text alerts of critical events to multiple users or talkgroups

### WAVE PTX broadband push-to-talk

- Extend the reach of your communications network by integrating MOTOTRBO and WAVE PTX users into one system

### VB400 body camera solution

- Use R5 with NFC tag to assign a specific camera to the radio user





# MOTOTRBO R5

## Accessories



# R5 accessories

Customize R5 with our wide range of accessories



Batteries and  
chargers



Carry  
accessories



Wired audio  
accessories



Wireless audio  
accessories

R5 has several new accessories and is compatible with most XPR 3000e accessories allowing re-use of current parts



# New audio accessories

RM560 Large RSM (PMMN4170) and  
RM530 Small RSM (PMMN4171)

- AI-trained noise suppression
- Windporting
- IP67
- 3.5 mm audio jack
- Emergency button
- Wideband microphone and speaker

	RM560	RM530
Loudness	101 phons	97 phons
Dimensions (mm)	61 x 85 x 26	59 x 78 x 22
Weight (g)	210	161

2-wire earpiece (PMLN7269ANS)

- AI-trained noise suppression

Batteries

- Slim, high capacity and intrinsically safe options

Carry cases

- Nylon and hard leather versions
- Leather cases available with fixed or swivel belt loop

RFID / NFC tags

- Enable R5 to integrate with asset tracking systems



RM560



RM530



Two-wire earpiece



Batteries



Carry cases



RFID / NFC tags



# R5 accessories (new)

Category	Part number	Description
Carry	PMLN8662	Hard Leather Carry Case, 3" Swivel Belt Loop For Limited Keypad Radio
Carry	PMLN8663	Hard Leather Carry Case, 3" Fixed Belt Loop For Limited Keypad Radio
Carry	PMLN8664	Nylon Case, 3" Fixed Belt Loop For Limited Keypad Radio
Carry	PMLN8665	Hard Leather Carry Case, 3" Swivel Belt Loop For No Keypad Radio
Carry	PMLN8666	Hard Leather Carry Case, 3" Fixed Belt Loop For No Keypad Radio
Carry	PMLN8667	Nylon Case, 3" Fixed Belt Loop For No Keypad Radio
Audio	PMMN4170	RM560 Remote Speaker Microphone, with 3.5mm Audio Jack, IP67
Audio	PMMN4171	RM530 Remote Speaker Microphone, with 3.5mm Audio Jack, IP67
Audio	PMLN7269ANS	Receive Only Extra Loud Earpiece, 3.5mm Jack (Black Color)

Category	Part number	Description
Battery	PMNN4888	IMPRES Slim Li-Ion IP67 2200 mAh
Battery	PMNN4889	IMPRES High Capacity Li-Ion IP67 3200 mAh
Battery	PMNN4890	IMPRES UL High Capacity Li-Ion IP67 3200 mAh
Misc.	PMLN8671	U_R5 NFC Tag Kit
Misc.	PMLN8673	U_R5 US RFID Tag Kit



# MOTOTRBO R5

## Warranty and service offerings



# Service offers (NA)

Category	Essential software (repair opt out)	Essential service (standard)	Essential service with accidental damage (optional)
2-year hardware repair (manufacturing defects only)	●	●	●
5-years of software upgrades	●	●	●
5-years remote technical support	●	●	●
MyView portal	●	●	●
5-year hardware repair (manufacturing defects and normal wear & tear)	—	●	●
5-year hardware repair (manufacturing defects, wear & tear and accidental damage)	—	—	●

● Included    — Not included



# MOTOTRBO R5

## Summary



# MOTOTRBO R5 key messaging



## Cut through the noise

- Loud
- Clear
- Consistent

- Loud audio up to 106 phons
- AI-trained Noise Suppression
- IMPRES audio
- Intelligent Audio
- Received Audio Leveling



## Focus on the task

- Optimized controls
- Long talk-time
- Connected

- Three line display
- Dedicated emergency button
- Long talk time
- Large, tactile PTT button
- Bluetooth 5.2
- Wi-Fi 2.4 & 5 GHz



## Built to last

- Durable
- Reliable
- Safe

- IP67
- MIL STD 810H
- Motorola Solutions ALT
- Robust accessory connector
- TIA / CSA hazloc



# Thank you

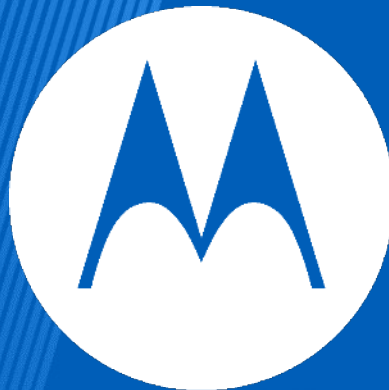
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businesses  
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