XVP Remote speaker microphone

Maximize your mission critical voice technology.

The XVP RSM utilizes an enhanced end-to-end audio design for increased clarity that enables more intelligible communications in the loudest environments and speaking from any direction.

Details

The mission critical Xtreme Voice Plus XVP Remote Speaker Microphone clear, loud audio communications in a sleek, compact package. Built to work as a system, the XVP RSM leverages your APX™, APX N70 or APX NEXT radio audio capabilities to strengthen the most important thread of your lifeline: ultra-clear voice communications. So no matter where you are or how you speak, you can be confident that, for every message, you'll hear and be heard clearly.

Key Features

- Loud, clear speaker
- Multi-mic capability: four high dynamic range microphones
- Advanced windporting
- Adaptive noise suppression
- Intrinsically safe, Div 1 certified
- Enhanced ergonomic design

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Optimized audio starts with better inputs

Four high dynamic range (HDR) microphones are arranged for all-around coverage, so communications are clear from every direction and different usage positions. The HDR microphone technology prevents loud speech from distorting, even when shouting in extreme noise environments.

Four microphones arranged around the XVP allow for even better noise cancellation. The adaptive noise suppression tracks your voice and filters out surrounding background noise for superior clarity. As the noise environment changes, so will the XVP to adjust for maximum noise cancellation.

The arrangement of four HDR mics also provides a significant reduction of muffled audio over earlier RSM designs, no matter how you hold the XVP.

To take noise suppression even further, all HDR microphones are wind ported and placed behind our exclusively engineered housing to further redirect airflow and water drain. This mitigates any leftover wind noise.

Loud and intelligible

The XVP RSM speaker has been specially engineered to improve speaker clarity while maintaining best in class loudness over previous RSM designs. At the highest volume, the RSM will maintain intelligible audio output to cut through the noisiest environments and maintain audio richness at mid to low volumes.

The XVP RSM enhances APX, APX N70 and APX NEXT series radios to engage the full features of the adaptive audio engine to dynamically optimize the radio's performance in the presence of background noise. Adaptive microphone gain control and adaptive speaker equalization build upon the adaptive noise suppression and wind porting to provide the loudest, most intelligible audio in any environment, even at maximum volume.

The Algorithm in the XVP RSM allows for additional audio features enabled in the radio to be used through the RSM,
such as Receive Volume Leveling in APX NEXT and APX N70 series radios. Set the volume once. The radio will adjust the RSM volume based on the power of the received audio of loud or soft talkers.

XVP RSM button configuration

Windporting grill

Programmable button

Shoulder clip
with D-ring

Protected
Push-to-Talk button

Accessible and protected
programmable buttons

Field replaceable cable

Channel knob

Emergency button

Volume up/down

4 HDR microphones
enable new adaptive
noise suppression

Windporting grill

ViQi button enables
voice commands*

47 mm speaker

IPx8 3.5 mm
earpiece jack

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Available without
channel knob

*ViQi Assistant software must be installed on the radio.

GENERAL

XVP850 part number with channel knob	PMMN4135_TAA (compatible with APX and APX NEXT)
XVP750 part number with channel knob	PMMN4141 (compatible with APX N70)
XVP830 part number without channel knob	PMMN4136_TAA (compatible with APX and APX NEXT)
XVP730 part number without channel knob	PMMN4142 (compatible with APX N70)
Dimensions (RSM Head only)	3.66 x 2.27 x 1.21 in (93 x 58 x 31 mm)
Weight (Total Kit)	PMMN4136 / PMMN4142: 10.05 oz. (285 g) PMMN4135 / PMMN4141: 10.23 oz. (290 g)
Clip	360° rotating clip with D-Ring
Color	Black
Power Source	Radio battery
Secondary Accessory Interfaces	3.5 mm non-threaded
Intrinsically Safe	**Div 1** Class I (Groups C, D), Class II (Groups E, F, G), Class III **Div 2** Class I (Groups A, B, C, D), Class II (Groups F, G) Class III

MICROPHONE

Type	Beam Forming
Sensitivity	-42dBV Typical
Distortion (THD)	<5% wideband
Hot Microphone Feature	Yes
IMPRES™	Yes
Noise Cancellation	4 Microphone adaptive noise suppression algorithm
Windporting Microphone	Yes
Adaptive Audio Engine	Enabled through radio[1]

SPEAKER

Diameter	1.9 in (47 mm)
Speech Loudness @12 in (300mm)	105 Phon[2]
Distortion (THD)	<15%

CONTROLS

Top	Orange emergency, volume up/down, channel control (PMMN4135_TAA / PMMN4141 only)
Side	PTT, 2 programmable (1-dot, 2-dot)
Front	1 programmable (3-dot ViQi)

1 For more information on APX accessories, please visit: www.motorolasolutions.com/apx

2 RSM loudness with legacy APX 6000 (AN) and SRX 2200 (AN) model is 101 Phon.

CABLE	
Length	11 in (280 mm) coiled length
Flex Life	100k cycles minimum
Pull Strength	40 lbs (18.14 kg) minimum
Cable Jacket	Thermoplastic polyurethane (TPU)
ENVIRONMENTAL	
Operating Temperature	-30°C to +60°C (-22°F to +140°F)
Storage Temperature	-55°C to +85°C (-67°F to +185°F)
Mil Specs	MIL810H Method 506.4 (Rain), MIL810H Method 509.4 Procedure 1 (Salt Fog), MIL810H Method 510.4 Procedure 1 (Dust), MIL810H Method 514.5 Procedure 1 Category 24 (Vibration), MIL810H Method 516.5 Procedure 1 (Vibration)
ESD	IEC / EN 61000-4-2
IP Rating	IP68 (2 meters, 4 hours)
Impact Grill	1.25 in (31.75 mm) diameter steel ball drop
Work-When-Wet	Yes

SECONDARY AUDIO ACCESSORY	
KIT NUMBER	DESCRIPTION
PMLN8650	N-ear 360 flexo dynamic braided fiber cloth single earpiece (560mm)
PMLN8652	3.5mm extra-loud receive only earpiece

REPLACEMENT PART	
KIT NUMBER	DESCRIPTION
PMLN8312	Low profile swivel clip with D-ring
PMLN8313	Channel knob
PMKN4260	Coil cord for PMMN4135/PMMN4136
PMKN4263	Coil cord for PMMN4141/PMMN4142
COMPATIBLE RADIOS	
PMMN4135 / PMMN4136	APX 6000, APX 6000XE, APX 8000, APX 8000XE, APX 8000H, APX 8000HXE, SRX 2200, APX NEXT, APX NEXT XE
PMMN4141 / PMMN4142	APX N70

COMPATIBLE RADIO FIRMWARE
APX Radios : R24.00.00 and beyond APX N70 Radios : R01.00.00 and beyond APX NEXT Radios: R03.20.00 and beyond

To learn more, visit: **www.motorolasolutions.com/apx**

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