

EP450™ Portable Radio

Industrial

BENEFITS

64 Channels

Easily organize your teams into different talkgroups. An ideal tool for complex operations where communication is key.

8-character alphanumeric display

Easy-to-understand icons provide feedback on status of features such as scan, high/low power and signal strength indicator (SSI).

Dual Priority Scan

Monitor the priority channel and keep updated on critical information. Use this feature when you need to monitor one or two workgroups more often than the rest.

Internal Voice Operated Transmission (VOX)

With the use of an appropriate audio accessory, you can speak and listen to a radio conversation without having to use your hands. Don't stop your tasks, save time and be more productive.

Selective Radio Inhibit

The EP450 radio includes a security feature that enables the base station to remotely deactivate a radio unit. This feature is especially useful to prevent lost or stolen radios from compromising the integrity of your system. As soon as the radio is turned on, the base station sends a signal that disables all controls except the On/Off button.

PTT-ID (transmit/receive)

Optimize your air time by quickly identifying a radio user at the start of the transmission.

FEATURES

- 64 Channels
- 4 Programmable Buttons
- CSQ/PL/DPL/inv-DPL
- Busy Channel Lockout
- Dedicated RX Channel
- X-Pand™
- Internal Voice Operated
- Transmission (VOX)
- Full Keypad (3 x 4)
- 8-Character Display
- Nuisance Channel Delete
- Time-Out Timer
- Repeater / Talkaround
- Dual Priority Scan
- MDC-1200 Signaling
 - PTT-ID (encode/decode)
 - Radio Check (decode)
 - Selective Radio Inhibit (decode)
- Quik-Call Signaling
 - Call Alert (encode/decode)
 - Voice Selective Call (encode/decode)
- DTMF Signaling
 - PTT-ID (encode)
 - Call Alert (encode)
 - Voice Selective Call (encode)
- Internal Option Board Port

ACCESSORIES

Motorola offers a wide range of original accessories to enhance your radio's functionality for every communication need. Motorola Original Accessories are built with the highest Motorola quality standards ensuring effectiveness and durability.



After 75 years of commitment, Motorola continues developing solid relations with its clients, based on its experience and its technological quality.

A company recognized for its leadership, by offering innovative communication and information solutions, as well as, reliable customized solutions enabling companies to increase the performance of their operations while satisfying the business' requirements and needs.

The EP450 portable includes several features to enhance performance including: 64 channels, 8-character alphanumeric display, choice of frequency range, PL/DPL, internal VOX and multiple battery options.

EP450™ PORTABLE RADIO WITH DISPLAY



GENERAL	VHF	UHF
Dimensions	Height x Width x Depth 130.5 mm x 62 mm x 45 mm (5.12 in. x 2.44 in. x 1.77 in.)	
Weight	397g	
Average Battery Life @ 5/5/90 Duty Cycle*	17 Hours (Low Power) / 12 Hours (High Power)	
(With High-Capacity Li-ion Battery)		
Model Numbers	136-162 MHz LAH65JDH9AA4_N 146-174 MHz LAH65KDH9AA4_N	403-440 MHz LAH65QDH9AA4_N 438-470 MHz LAH65RDH9AA4_N 465-495 MHz LAH65SDH9AA4_N 490-527 MHz LAH65TDH9AA4_N
Frequency Range / FCC Approval	136-162 MHz / ABZ99FT3039 146-174 MHz / ABZ99FT3045	403-440 MHz / ABZ99FT4057 438-470 MHz / ABZ99FT4056 465-495 MHz / ABZ99FT4058 490-527 MHz
Channel Spacing	12.5 / 20 / 25 kHz	
Temperature Range	-30° to 60°C	
Frequency Stability	±2.5 ppm	

* 5% Receive, 5% Transmit, 90% Standby

TRANSMITTER	VHF	UHF	RECEIVER	VHF	UHF
RF Power Output			Sensitivity (12 dB SINAD) (typical)	0.25 µV	
High Power	5 W	4 W	Intermodulation	-70 dB	
Low Power	1 W	1 W	Selectivity	-70 dB @ 25 kHz / -60 dB @ 12.5 kHz	
Conducted/	-36 dBm < 1 GHz / -30 dBm > 1 GHz		Spurious Rejection	-75 dB	
Radiated Emissions			Image Rejection and 1/2 F	-70 dB	
FM Hum and Noise	-45 dB @ 25 kHz / -40 dB @ 12.5 kHz		Output Audio Distortion <5%	500 mW	
Modulation Limiting	± 2.5 kHz @ 12.5 kHz / ±5 kHz @ 25 kHz		(7.5V / room Temperature)		
Audio Response (0.3 - 3 kHz)	+1, -3dB		Audio Distortion	5%	
Audio Distortion	<3%		Hum and Noise	-45 dB @ 25 kHz / -40 dB @ 12.5 kHz	
			Spurious Emission	-57 dBm < 1 GHz / -47 dBm > 1 GHz	
			(conducted and radiated)		

MILITARY STANDARDS	810C		810D		810E		810F	
Applicable MIL-STD	Methods	Procedures	Methods	Procedures	Methods	Procedures	Methods	Procedures
Low Pressure	500.1	1	500.2	2	500.3	2	500.4	1
High Temperature	501.1	1,2	501.2	1,2	501.3	1,2	500.4	1,2
Low Temperature	502.1	1	502.2	1,2	502.3	1,2	500.4	1,2
Temperature Shock	503.1	1	503.2	1	503.3	1	500.4	1
Solar Radiation	505.1	1	505.2	1	505.3	1	500.4	1
Rain	506.1	1,2	506.2	1,2	506.3	1,2	500.4	1
Humidity	507.1	2	507.2	2,3	507.3	2,3	500.4	3
Salt Fog	509.1	1	509.2	1	509.3	1	500.4	1
Dust	510.1	1	510.2	1	510.3	1	500.4	1
Vibration	514.2	8,10	514.3	1	514.4	1	500.5	1
Shock	516.2	1,2,5	516.3	1,4	516.4	1,4	500.5	1

Specifications subject to change without notice. All electrical specifications and methods refer to EIA/TIA 603 standards.

 Motorola Accelerated Life Test
 Meets IP54 Standard

 Military Standards MIL-SPECS 810 C, D, E, F

Contact your Motorola Representative for more information.



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