

#### BENEFITS

## 16 Channels

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

#### **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 (encode)

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

# FEATURES

- 16 Channels
- 2 Programmable Buttons
- CSQ / PL / DPL / inv-DPL
- Busy Channel Lockout
- Dedicated RX Channel
- X-Pand™
  - Internal Voice Operated Transmission (VOX)
  - Nuisance Channel Delete
  - Call Alert
- Time-Out Timer
- Repeater / Talkaround
- Dual Priority Scan
- MDC-1200 Signaling
- PTT-ID (encode)
- Radio Check (decode)
- Selective Radio Inhibit (decode)
- Quik-Call II Signaling
- Call Alert (decode)
- Voice Selective Call (decode)
- DTMF Signaling
  PTT-ID (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 experience, technology and quality.

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

The EP450 portable includes several features to enhance performance including: 16 channel, choice of frequency range, group capability within the same frequency, PL/DPL, internal VOX and multiple battery options.

# EP450<sup>™</sup> PORTABLE RADIO WITHOUT 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 LAH65JDC9AA2_N	403-440 MHz LAH65QDC9AA2_N						
	146-174 MHz LAH65KDC9AA2_N	438-470 MHz LAH65RDC9AA2_N						
		465-495 MHz LAH65SDC9AA2_N						
		490-527 MHz LAH65TDC9AA2_N						
Frequency Range / FCC Approval	136-174 MHz / ABZ99T3039	403-440 MHz / ABZ99T4057						
	146-174 MHz / ABZ99T3045	438-470 MHz / ABZ99T4056						
		465-495 MHz / ABZ99T4058						
		490-527 MHz						
Channel Spacing	12.5 / 20 / 25 kHz							
Temperature Range	-30° to 60°C							
Frequency Stability	±2.5 ppm							

TRANSMITTER	VHF	UHF	RECEIVER	VHF	UHF		
RF Power Output			Sensitivity (12 dB SINA	D) (typical)	0.22 μV		
High Power	5 W	4 W	Intermodulation		-70 dB		
Low Power	1 W	1 W	Selectivity 70 dB @ 25 kHz / -60 dB @ 12				
Modulation Limiting	±2.5 @ 12.5kH	z / ±4.0 @ 20kHz	Spurious Rejection	-75 dB			
FM Hum and Noise	-45 dB @ 25 kHz / -40 dB @ 12.5 kHz		Image Rejection and 1/	-70 dB			
Conducted/	-36 dBm < 1 GHz / -30 dBm > 1 GHz		Output Audio Distortio	n	500 mW		
Radiated Emissions			(7.5V / room Temperat	ure)			
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 kl			
			Spurious Emission	-57 dBm <	1 GHz / -47 dBm > 1 GHz		
			(conducted and radiate	ed)			

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

(IP) Meets IP54 Standard

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

Contact your Motorola Representative for more information.



motorola.com/radiosolutions

MOTOROLA and the Stylized M Logo are registered in the U.S. Patent and Trademark Office. All other product or service names are the property of their respective owners. © Motorola, Inc. 2005 LE-P450-PS REV 11/05