

## Motorola CP1660

## Commercial Portable Two-Way Radio



**Full keypad** provides easy accessibility to change channels or place a selective call (DTMF signaling).

Built-in simple voice scrambling for **increased privacy.** 

Built-in DTMF signaling provides **caller identification** and **private communication**.

VOX ready for **hands-free communication** keeps users hands free for the job at hand.

Tighter specifications provide **enhanced rejection of interference** so you can get your message through clearly.

X-Pand technology provides **crisp, clear and strong audio quality.** 

Multi-channel capability—99 channels to support communication amongst all your employees. User programmable feature allows customization of radio profiles while on the go.

Standard Lilon battery provides **up to 11 hours (5/5/90 duty cycle) of battery life at high power** to meet the demands of your employee's work shift. A high-capacity Lilon battery option is available for those with longer shift requirements or increased communication needs.

**High power**—5 watt (VHF) / 4 watt (UHF) adjustable power levels help extend battery life.

5 programmable buttons enabling easy, one-touch access to up to 10 userselected features.

**Talkaround capability** enabling communication even when a repeater is not being used.

Rapid-rate drop-in charging—charge standard capacity batteries in less than 3 hours with the included drop-in charger. Easy-to-handle, lightweight, compact design.

A wide range of Motorola Original® audio, energy and carrying accessories, as well as Mag One<sup>™</sup> audio accessories, provide an affordable option for light duty radio users.

Recommended Accessories# PMMN4013—Remote Speaker Microphone with 3.5mm audio jack, IP54 PMLN5003—Lightweight Temple Transducer with Inline Microphone and PTT PMLN5001—D-Style Earpiece with In-line Microphone and PTT PMLN4442—Earbud with In-line Microphone and PTT/VOX switch (Mag One) HMN9754-2-Wire Surveillance Kit, Beige

\*For a complete listing of accessories, please refer to the accessories brochure AF4-06-015

## Enhanced functionality, ease of use, reliable communication

Easy and prompt communication with your workforce is vital to improving response time, strengthening employee efficiency and increasing customer satisfaction. Motorola's two-way radios provide a durable, high-quality voice communication solution that helps your business increase productivity and provide excellent customer service. Ideal for light manufacturing, retail, hospitality services, property and real estate management. The Motorola CP1660 Commercial Portable radio brings you quality features you need at a competitive price. With its full keypad for increased ease of use, extensive feature set, and ergonomic shape for comfortable handling in a durable, lightweight, compact design, you can enhance communication while increasing efficiency and productivity.

## CP1660 Radio Specifications\*

	CP1660					
	VHF	UHF				
Frequency Range <sup>e</sup>	136-174MHz	403-446MHz 435-480MHz				
Memory Channels	99 C	99 CH				
Channel Spacing	12.5/25 kHz	12.5/25 kHz switchable				
Operating Temperature Range	-30°C to +60	-30°C to +60°C (Radio)				
Dimensions (H X W X D) with Lilon battery NiMH battery High Capacity Lilon battery	120 x 55 x	120 x 55 x 35.5 mm 120 x 55 x 36.5 mm 120 x 55 x 40.7 mm				
Weight with Lilon battery MiMH battery High Capacity Lilon battery	394.5	335.0 gm 394.5 gm 342.0 gm				
Average Battery Life @5-5-90% Duty Cycle, with Lion battery NiMH battery High Capacity Lilon battery	up to 1 up to 5	High Power up to 11 hrs up to 9 hrs up to 16 hrs				
Sealing	Passes rain tes	Passes rain testing per IP54				
Shock & Vibration	Diecast with impact resistance polycarbon	Diecast with impact resistance polycarbonate housing, Meets MIL-STD810C/D/E/F				
Dust & Humidity	Weather resistant housing Meets MILSTD810C/D/E/F					

		CP1660					
	Vł	HF	UHF				
RF Output	High Power 5W	Low Power 1W	High Power 4W	Low Power 1W			
Spurs and Harmonics		9kHz - 1GHz < -36dBm > 1GHz < -30dBm					
Frequency Stability (-30°C to +60°C)		+/- 2.5ppm					
FM Hum & Noise		> 40dB					
Modulation Limiting		≤ 5kHz (25kHz) ≤ 2.5kHz (12.5kHz)					
Audio Response (from 6dB/oct pre-emphasis, 300-3000Hz)		≤ +1/-3dB					
Audio Distortion @ 1kHz tone, 60% rated max dev.		<5%					

Receiver						
	CP1660					
	VHF	UHF				
Sensitivity (12dB SINAD)	<-119 dBm (0.25uV)					
Adjacent Channel Selectivity	> 70dB (25kHz), >65dB (12.5kHz)					
Intermodulation	>70dB					
Spurious Rejection	>70dB					
Audio Distortion	<5%					
Hum and Noise	>40dB					
Conducted Emission	<ul> <li>&lt;-57dBm for below</li> <li>&lt;-47dBm for above</li> </ul>					
Audio Output @ <5% Distortion	500mW (at 24 ohm)					

Military Standards								
Applicable MIL-STD	810C		810D		810E		810F	
	Method	Proc./Cat.	Method	Proc./Cat.	Method	Proc./Cat.	Method	Proc./Cat.
High Temperature	501.1	l, II	501.2	I/A1, II/A1	501.3	I/A1, II/A1	501.4	l/Hot, ll/Hot
Low Temperature	502.1	I	502.2	I/C3, II/C1	502.3	I/C3, II/C1	502.4	I/C3, II/C1
Temperature Shock	503.1	-	503.2	I/A1C3	503.3	I/A1C3	503.4	1
Solar Radiation	505.1	П	505.2	l I	505.3	I	505.4	1
Humidity	507.1	II	507.2	Ш	507.3	II	507.4	-
Salt Fog	509.1	-	509.2	-	509.3	-	509.4	-
Blowing Dust	510.1	I.	510.2	I.	510.3	I.	510.4	1
Vibration	514.2	VIII/F, Curve-W	514.3	I/10, II/3	514.4	I/10, II/3	514.5	1/24

\*Availability subject to country's laws and regulations. Radios meet applicable regulatory requirements. All specifications subject to change without notice. Specifications are not representative of all radios and may vary in different radios. \*Radio frequencies subject to availability.

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