

Motorola CP477

Easy Licensing Commercial Portable Two-Way Radio



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

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—10 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 13 hours (5/5/90 duty cycle) of battery life** 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.

5 programmable buttons—enabling easy, **one-touch access to up to 10 user-selected features.**

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™ 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 In-line 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, reliable communication

Improve your operational efficiency with the right communication tool and eliminate unnecessary waiting time and frustration on frequency application, with the Motorola CP477 easy licensing commercial portable two-way radio.

Bringing quality at a competitive price, the Motorola CP477 is ideal for retail, hospitality, event management and academic usage. Extensive features and an ergonomic shape provide comfortable use. A durable, lightweight and compact design enhances communication while improving work efficiency and increasing productivity.

CP477 Radio Specifications*

General Specifications

	CP477
	UHF
Frequency Range*	477MHz
Memory Channels	10 CH
Channel Spacing	12.5 kHz
Operating Temperature Range	-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 35.5 mm 120 x 55 x 36.5 mm 120 x 55 x 40.7 mm
Weight with Lilon battery NiMH battery High Capacity Lilon battery	335.0 gm 394.5 gm 342.0 gm
Average Battery Life @5-5-90% Duty Cycle, with Lilon battery NiMH battery High Capacity Lilon battery	up to 13 hrs up to 11 hrs up to 18 hrs
Sealing	Passes rain testing per IP54
Shock & Vibration	Diecast with impact resistance polycarbonate housing, Meets MIL-STD810C/D/E/F
Dust & Humidity	Weather resistant housing Meets MIL-STD810C/D/E/F

Transmitter

	CP477
	UHF
RF Output	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

	CP477
	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	< -57dBm for below 1GHz < -47dBm for above 1GHz
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	I, II	501.2	I/A1, II/A1	501.3	I/A1, II/A1	501.4	I/Hot, II/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	I
Solar Radiation	505.1	II	505.2	I	505.3	I	505.4	I
Humidity	507.1	II	507.2	II	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	I
Vibration	514.2	VIII/F Curve-W	514.3	I/10, II/3	514.4	I/10, II/3	514.5	I/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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Stringent Motorola
Accelerated Life Testing
simulating five years of hard
use in real life. (EIA RS-3168
in Shock, Vibration, Dust,
Humidity, IP54 for Sealing.



Compliance with ISO 9001
Standard on international
quality system assurance
on design, development,
production, installation and
servicing of a product.



Stamp of Approval from
the U.S. Military for use
in rough environments.



To ensure compliance with RF
energy exposure standards
and regulations, use only
Motorola-approved batteries
and accessories. Use of
non-Motorola-approved
batteries and accessories may
result in RF energy exposure
standards being exceeded.