

# Technical Specs

General Specifications	
Model	QP-2000 DMR
Frequency	400~470MHz, 136~174MHz
Channel Capacity	32
Normal Operating Voltage	7.4V
Operating Temperature	-30°C ~ + 60°C
Store Temperature	-40°C ~ + 85°C
Weight	270g (estimate) With Standard Li-ion battery
Dimensions: H x W x D (mm)	113.5 X 54 X 33.5 With Standard Li-ion battery
Dust-protection and water resistant	IP65
Battery Life in 5/5/90 Operating Mode	
2000mAh Standard Li-ion battery	Analog: 10hours; Digital: 14hours

Receiver	
Frequency	400 ~ 470MHz, 136 ~ 174MHz
Channel Spacing	12.5KHz
Frequency Stability	+ / - 1.0ppm
Analog Sensitivity	0.35uV/-116dBm(20 dB SINAD) 0.22uV/-120dBm(Type)
Digital Sensitivity	0.3uV/-117.4dBm (BER 5%) 0.7uV/-110dBm (BER 1%)
Intermodulation	TIA603C : 70dB ETSI : 65dB
Adjacent Channel Selectivity	TIA603C : 65dB@12.5KHz ETSI: 60dB@12.5KHz
Spurious Response rejection	TIA603C : 75dB ETSI : 70dB
Conducted spurious emission	- 57dBm@ < 1GHz , - 47dBm @> 1GHz
Blocking	84dB
Rated Audio Power	1W
Audio Response	+ 1dB ~ - 3dB
Rated Audio Distortion	3% ( Type )

Transmitter	
Frequency	400 ~ 470MHz, 136 ~ 174MHz
Channel Spacing	12.5KHz
Frequency Stability	+ / - 1.0ppm
Power	Low Power : 1W , High Power : 4W
Hum and Noise	- 40dB@12.5KHz
Conducted, radiated spurious emission	-36dBm@ <1GHz, -30dBm@>1GHz
Adjacent Channel Power	-60dB@12.5KHz
FM Modulation Mode	12.5KHz : 11K0F3E
4FSK Digital Mode	12.5KHz ( data only ) : 7K60FXD 12.5KHz ( data + voice ) : 7K60FXE
Modulation Maximum Deviation	2.5KHz@12.5KHz
Audio Response	+ 1dB ~ - 3dB
Audio Distortion	3% ( Type )
Digital Protocol	ETSI TS 102 361-1, -2, -3
Vocoder Type	AMBE3000™

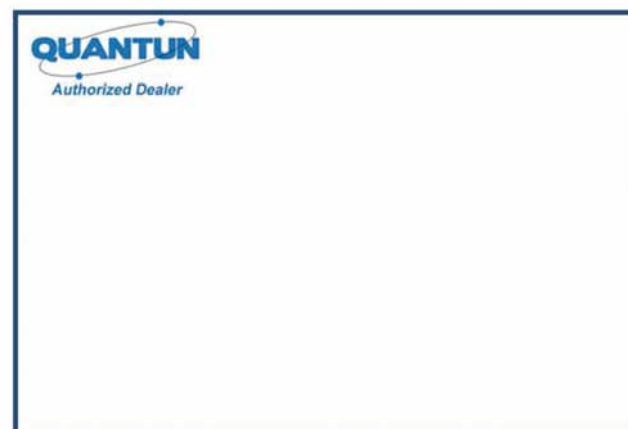


# QP-2000

## DMR Two-Way Radio

### Key Features

- Digital & Analog Operable
- 136-174MHZ (VHF) / 400-470MHZ (UHF)
- 32 Channels
- Channel annunciation
- VOX Operational (Hands Free)
- Voice & Short Message Encryption
- IP65



# QP-2000

## Professional DMR Two-Way Radio

### Key Features

#### Use Time-Division Multiple-Access (TDMA)

Digital technology which doubles the number of users on a single licensed 12.5 kHz channel. In compliance with the DMR digital protocol.

#### Dual Mode Operation

Operate in both Digital & Analogue mode, allows for easy migration from analog to digital, providing clearer voice communications in digital mode, throughout the coverage area.

#### Multi-Communication Operational

Versatile calling, it supports Private call, group call and all call in digital mode.

#### Emergency Alarm & Man Down (Optional)

Is an emergency alarm feature which transmits from the radio when the button is pushed in case of an emergency. Man Down is optional but can transmit an emergency signal if the radio is positioned in a horizontal position for a long period of time.

#### Signaling

Radio comes with various signaling options. Built in CTCSS/DCS signaling in Analog mode & DTMF 2 Tone, 5 Tone.

#### Tri-color LED

The tri-color LED allows for notification of Tx & Rx status, as well as calling and scanning.

#### VOX (Optional)

Allows for hands free communication when used with one of the many appropriate accessories we carry for hands free communication.

#### PC Tuning & Firmware Upgrade

PC tuning simplifies the maintenance and tuning of the radio by allowing both to be done via PC. Firmware can be updated easily.

#### Battery

40% longer battery duration (Digital Mode).

#### Military Specifications

Constructed for protection against shock and vibration to maintain a high level of durability.



Quantun Electronics offers a vast and complete line of audio accessories to enhance the operation of your radio.

### Accessories



Secure wear D-earbud PTT  
Model No. QBM103PCB



Ear bud w/ acoustic tube  
Model No. QBM108PCB



Ear bud w/ acoustic tube  
Model No. QBM107PCB



Two part ear piece  
Model No. QB0003PCB



Two Part ear piece PTT  
Model No. QBM100PCB



Remote speaker microphone  
Model No. QBM109PCB

### Military Specs

US Military Specifications	810 C Method	810 C Procedure	810 D Method	810 D Procedure	810 E Method	810 E Procedure	810 F Method	810 F Procedure
Low Pressure	500.1	1, 2	500.2	1, 2	500.3	1, 2	500.4	1, 2
High Pressure	501.1	1, 2	501.2	1, 2	501.3	1, 2	501.4	1, 2
Low Temperature	502.1	1, 2	502.2	1, 2	502.3	1, 2	502.4	1, 2
Temperature Shock	503.1	1	503.2	1	503.3	1	503.4	1
Solar Radiation	505.1	1	505.2	1	505.3	1	505.4	1
Rain Blowing/ Drip	506.1	1, 3	506.2	1, 3	506.3	1, 3	506.4	1, 3
Humidity	507.1	-	507.2	-	507.3	-	507.4	-
Salt Fog	509.1	-	509.2	-	509.3	-	509.4	-
Dust Blowing	510.1	1	510.2	1	510.3	1	510.4	1
Vibration	514.2	1	514.3	1	514.4	1	514.5	1
Shock	516.2	1, 4	516.3	1, 4	516.4	1, 4	516.5	1, 4

Ingress Protection Standard IP-65 Dust Protection & Water Resistance