

QP-750 PROFESSIONAL TWO-WAY RADIO SPECIFICATIONS



APPLICABLE MIL-STD-810C/D/E/F

Applicable MIL-STD	810C		810D		810E		810F	
	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	501.4	1,2
Temp. 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	506.1	1,2	506.2	1,2	506.3	1,2	506.4	1
Humidity	507.1	2	507.2	2,3	507.3	2,3	507.4	3
Salt Fog	509.1	1	509.2	1	509.3	1	509.4	1
Dust	510.1	1	510.2	1	510.3	1	510.4	1
Vibration	514.2	8,10	514.3	1	514.3	1	514.5	1
Shock	516.2	1,2,5	516.3	1,4	516.4	1,4	516.5	1

GENERAL

Frequency range	136-174/400-470/450-520/MHz
Channel capacity	16
Channel spacing	12.5/20/25KHz
Antenna impedance	50Ω
Operation voltage	7.5V DC
Frequency stability	±2.5ppm
Operating temperature	-30°C-+60°C
Battery	2100mAh Li-Polymer
Battery Life	12 Hours

TRANSMITTER

RF power output	5.0W(H)3W(M)1W(L)
Modulation distortion	≤3%
FCC Modulation	16K0F3E(25K)/11K0F3E(212.5K)
Spurious emission	-36dBm(≤1GHz), -30dBm(>1GHz)
FM Noise rejection	≥45dB(25K), ≥40dB(12.5K)

RECEIVER

Reference sensitivity	≤0.25µV(25K)/0.28(12.5K)
Adjacent channel selectivity	≥70 dB(25k), ≥60 dB(12.5K)
Spurious response rejection	≥75dB
1/2 IF rejection	≥70dB
Intermodulation rejection	≥70 dB
Rated Audio	1W
Rated Audio distortion	≤10%
Audio distortion@500mW	≤5%

FCC Approved Bands(136-174 MHz) Pending

FCC Approved Bands(400-470 MHz) Pending

FCC Approved Bands(450-520 MHz)

FCC ID Identifier: XMHQP-750



Distributed by:

Professional Two-way Radio



QP-750

- ✓ MCD 1200 Signalling
- ✓ Wide Band Coverage
- ✓ Safety Check
- ✓ Scrambler
- ✓ High Quality Audio (1W)
- ✓ Channel Annunciation



Department

Department

The most experienced engineers in Quantun Electronics participated in the design and development of a radio that will set itself at the top of its class. They used cutting edge technology to ensure sharp clear audio and superb reliability in a package loaded with so many features that are hard to believe. The radio meets MIL SPECS 810 C/D/E/F and IP 54. It sleek, robust and ergonomic design makes it durable and easy to carry.



Radio Options and Capabilities

16 Conventional Channels

Each channel can be programmed with several options on per channel basis.

Tricolor LED

Inform radio status with a combination of steady lighted or flashing LEDs.

Two Programmable side Buttons

There are many options that can be assigned to this programmable buttons, each one can have dual function with Long and Short press.

Programmable Top Button

This button is normally reserved for Alarm and Emergency Calls, it is located on the top of the radio for easier access.

H/M/L Power Levels

Very flexible Power management allows the user to select proper operation priority for range or battery time.

Squelch Level

The level is adjusted at factory and the user can select the proper operational level that fits better it's needs. 0 is open squelch, 9 requires stronger signal to open the speaker.

CTCSS/CDCSS

The radios offer the most common 51 CTCSS analog tones and the standard 104 CDCSS codes. If required, the user can set non standard codes and tones.

QP-750

Monitor

Allow to check if the channel is available for use prior to pushing the PTT.

Scan

The radio offers several scan options for maximum flexibility, including: programmable timers, priority channels and several options for reverting channel.

Annuisance delete option is also provided.

Repeater/ Talkaround

Allows the by passing of the repeater with just a press of a button, and helps to manage the traffic better.

Busy Channel Lockout

If a different CTCSS/CDCSS is detected on a channel, TX is blocked on that channel to avoid interference with other talk groups while the conversation last.

Time Out Timer

This feature will protect the radio from very long transmissions. It could also be used to increase efficiency by limiting the length of the calls.

Tail Elimination

This feature will eliminate the annoying burst of noise heard at the end of each transmission.

Low Battery Alarm

When the battery reaches the low energy level, an audible and visual alarm will be emitted by the radio to warn the user to replace or recharge the battery.

Channel annunciation

A voice announcement will notify the user of the selected channel every time he changes channel. Very useful when the radio user cannot see or look at the channel knob to identify the channel.

Voice Scrambler

The radio offers the ability to maintain secure communications making the audio transmission difficult to understand if you do not have the means to decode the signal. Ideal for security applications, where privacy is required. Since it is a built-in feature, recovered audio is extremely clear.

Compander

For very noisy environments and narrow band applications, this feature will help to recover better audio levels reducing background noise. It needs to be active on all radios in the fleet.

VOX

Hands free operation is possible with proper accessory device.

Whisper

Some applications may require very quiet communication levels (hospitals or security guards) this option will increase the MIC sensitivity to achieve proper modulation level to make sure even the quietest message is heard.

Safety Check

The QP-750 radio was designed with safety and security as a priority. It includes options like Safety Check and out of Range Alarm that combined with the Emergency button, Lone worker, and Man Down Option ensures the radio user safety in case of accidents or emergency situations.

Emergency Alarm button

Several options are offered, from the Audible local Alarm, to reporting to the Radio Base of any emergency situation.

Lone Worker

This feature will help to protect a worker on a remote area. It requires the radio user to confirm to the radio that all is OK by pressing any button on the radio at a certain preset intervals, otherwise the Alarm will sound and the user will be considered in emergency.

Man Down (optional)

An additional position sensor can be installed in the radio. If the radio is placed in an horizontal position longer than a pre-defined time, it will generate an emergency alarm assuming that something happened to the user.

Rental

This feature will disable the radio once the rental timer expires. The radio can no longer be used and requires a return to the shop.



Accessories

"Quantun Electronics offers a complete line of audio accessories to enhance the operation of your radio. Please ask your Quantun reseller about them".



Bone Induction Earpiece Headset Light Weight And Comfortable headset



Economical & Universal Earbud with in-line PTT Secure Wear Earbud with on-MIC PTT



Reliable Earbud with transparent acoustic tube



Reliable Earbud with transparent acoustic tube Durable Remote Speaker Durable Remote Speaker



VOX earpiece VOX earpiece with Ear hook