



QUANTUN ELECTRONICS LLC



QUANTUN QP-550

Main Features

Water Resistance & Dust Protection

The radio meets IP-65 for ingress protection.



Features & Status Annunciation

The radio will let you know its status as well as other active features like battery level.

Powerful Audio Output

A 750mW rated audio output ensures clear audio even in noisy environments.

VOX

Allows for hands free communications of the radio when the appropriate VOX accessory is attached.

Signaling

The radio includes DTMF & MDC1200 PTT ID, CTCSS/DCS tones allowing for individual calls & Group calls for greater privacy and call efficiency.

32 Channels - 2 Zones

Each Channel can be programmed with several options on a per channel basis. Range 136-174 MHz (VHF) / 400-470 MHz (UHF).

Low Battery Alarm

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

Password Protection

A radio password can be designated upon PC programming. This protects the radio from unauthorized users changing the programming of the radio or accessing information related to the radio.

Scan

The radio offers several scan options for greater flexibility, including programmable timers, priority channels and options for reverting to a channel. A nuisance delete option is also provided.

Busy Channel Lockout

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

Embedded Message & Serial Number

The radio can store both messages and records, for example: maintenance, history, or programming records. The electronic serial number makes the unit identifiable even if the radio's tag with the serial number is lost or removed.

Military Specifications

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



QUANTUN QP-550



FC CE IC

General Specifications	
Power Supply	7.5V DC \pm 20%
Frequencies - Full Bandsplit	400 - 470MHz 136 - 174 MHz
Number of Channels	32 Channels
Maximum number of Zones	2 Zones
Maximum number of Channels Per Zone	16
Channel Spacing	12.5/25kHz
Operating Temperature	-25°C~ +60°C
Dimensions: H x W x D(mm)	
With Standard Li-ion battery (1300mAh)	96.5 X 54 X 32
Weight: (gm)	
With Standard Li-ion battery	235g
Average Battery Life 5/5/90 Cycle:	
With Standard Li-ion battery	12h(1700mAh)
Transmitter Specifications	
Frequency Stability(-30°C to 60°C, 25°C Ref)	1.0 ppm
Power Output	1W(L),4W(UHF), 5W (VHF)
Modulation Limiting	\pm 2.5kHz@12.5kHz, \pm 4kHz @20kHz, \pm 5kHz @25kHz
FM Hum & Noise	-40dB@12.5kHz / -45dB@25kHz
Conducted/Radiated Emission	-36dBm < 1GHz, -30dBm > 1GHz
Adjacent Channel Power	-55dB @ 12.5KHz, -65dB @ 20/25KHz,
FM Modulation Mode	12.5KHz: 11K0F3E/25kHz:16K0F3E
Audio Response (300-3000Hz)	+1 ~ -3 dB
Audio Distortion	< 3%
Ext. Microphone Connector	Compatible with 2 pin MOTO's hole connector (EP450)/(CP200)
Receiver Specifications	
Sensitivity	.50 μ V typical(20 dB SINAD) .28 μ V@12.5KHz, .25 μ V@20/25KHz typical(12 dB SINAD)
Intermodulation EIA	60dB
Adjacent Channel Selectivity	50 dB@12.5KHz, 60 dB@20/25KHz
Spurious Rejection	60 dB
Rated/MAX Audio	750mW / 1000mW
Audio Distortion @ Rated Audio	3%
Audio Response (300-3000Hz)	+1 ~ -3 dB
Conducted Spurious Emission	-57dBm<1 GHz, -47dBm>1GHz ETS 300 086

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