



**QUANTUN RADIO**

# QUANTUN QP-705

**IP65**



## Main Features

### Voice Recording

The radio can record up to 60 seconds of voice messages. This feature also allows for storing and reading of recorded voice messages and incoming messages when using the 2 Tone selective call option. Messages can be played back when desired by the user.

### Emergency Alarm

In case of an emergency, an alarm will be transmitted from the radio when the alarm button is pressed.

### Software Upgradeable

Allows the user to add or delete functions to keep the radio up to date with current and future software upgrades.

### Man Down (optional)

When this feature is activated the radio will enter an alarm mode if the radio remains in a horizontal position for a certain amount of time. The amount of time can be customized and pre-set by the user.

### PC Tuning

Simplifies maintenance of the radio and tuning of the radio by allowing both to be done via a PC.

### VOX

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

### 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.

### Powerful Audio Output

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

### Password Protection

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

### 16 Conventional Channels

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

### Water Resistance & Dust Protection

The radio meets IP-65 for ingress protection.

### Signaling

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

### Features & Status Annunciation

The radio will let you know its status as well as other active features like battery level and radio ID by a voice announcement.

### Military Specifications

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

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IP65

FC CE IC

General Specifications		
Power Supply	7.5V DC $\pm 20\%$	
Frequencies - Full Bandsplit	400 - 470MHz	136-174MHz
Number of Channels	16 Channels	
Maximum number of Zones	1 Zone	
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 (2000mAh)	113.5 X 54 X 33.5	
Weight: (gm)		
With Standard Li-ion battery	285g	
Average Battery Life 5/5/90 Cycle:		
With Standard Li-ion battery	16h(2000mAh)	
Transmitter Specifications		
Frequency Stability(-30°C to 60°C, 25°C Ref)	1.0 ppm	
Power Output	1W(L),4W(UHF)/5W(VHF)(H)	
Modulation Limiting	$\pm 2.5\text{kHz}@12.5\text{kHz}$ , $\pm 4\text{kHz}@20\text{kHz}$ , $\pm 5\text{kHz}@25\text{kHz}$	
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 MOTO hole connector (EP450)	
Receiver Specifications		
Sensitivity	.50 $\mu\text{V}$ typical(20 dB SINAD)	
	.28 $\mu\text{V}@12.5\text{KHz}$ , 25 $\mu\text{V}@20/25\text{KHz}$ typical(12 dB SINAD)	
Intermodulation EIA	60dB	
Adjacent Channel Selectivity	50 dB@12.5KHz, 60 dB@20/25KHz	
Spurious Rejection	60dB	
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	

## QUANTUN RADIO by Wireless Source

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