

PH690

DMR Portable Radio

- Light and Handy, Large-size Display
- Loud and Clear Sound, Long Battery Life
- Excellent Man-Machine Interface
- Rich Hardware Configuration
- IP67



Technical Specifications

General	
Digital Protocol	ETSI/TS102 361-1,-2,-3
Frequency	UHF1:400~470MHz ; VHF:136~174MHz
Channel Capacity	1024
Zone Capacity	64(Max. 32 groups per zone)
Channel Spacing	12.5kHz/20KHz/25KHz
Frequency Stability	± 0.5ppm
Operating Voltage	7.4V
Battery Capacity	2000mAh
Battery Life(5:5:90)	Analog: 12 hours Digital: 16hours
Size (H x W x D)	126 × 54.5 × 32mm(without antenna)
Weight	About 290g (with antenna and battery)
Screen	2.0inch LCD, 240 × 320, 6 Lines Text
Vocoder	AMBE++
Bluetooth	Support BT2.1 +EDR/4.0
Man Down	Support
Real Time	Support
Location	GPS/BDS
Encryption	Support SW and HW Encryption(TF card)
Vibration	Support

Receiver	
Sensitivity(Analog)	0.22uV(12dB SINAD)
Sensitivity(Digital)	0.22uV (5% BER)
Adjacent Channel Selectivity	60 dB@12.5KHz/70 dB@20/25KHz (TIA603A) -1T
	45dB@12.5KHz /70 dB@20/25KHz (TIA603D) -2T
	60dB@12.5KHz /70 dB@20/25KHz (ETSI)
Intermodulation	70 dB (TIA603D)
	65 dB (ETSI)
Spurious Rejection	70 dB (TIA603D)
	70 dB (ETSI)
Blocking or Desensitization	80dB (TIA603D)
	84dB (ETSI)
Co-channel Rejection	-12~0 dB @12.5KHz/-8~0 dB @20/25KHz
Hum and Noise	-40 dB@12.5KHz /-43 dB@20KHz /-45 dB@25KHz
Rated Audio Power	0.5W
Max Audio Power	2.0W
Audio Distortion @ Rated Audio	≤3% (Typical)
Audio Response	+1 ~ -3dB (TIA603D)
Conducted Spurious Emission	-57 dBm (TIA603D)

Transmitter	
Low Power Output	1W
High Power Output	4W (UHF1) ; 5W(VHF)
FM Modulation	12.5KHz: 11K0F3E / 20KHz: 14K0F3E / 25KHz: 16K0F3E
	12.5KHz Data Only: 7K60F1D&7K60FXD
4FSK Digital Modulation	12.5KHz Voice Only: 7K60F1E&7K60FXE
	12.5KHz Voice And Data: 7K60F1W
Conducted/Radiated Emission	-36dBm ≤1GHz ; -30dBm >1GHz
Modulation Limiting	± 2.5KHz @12.5KHz / ± 4KHz @20KHz / ± 5.0KHz @25KHz
FM Hum and Noise	-40 dB@12.5KHz /-43dB@20KHz /-45 dB@25KHz
Adjacent Channel Power	60 dB@12.5KHz /70 dB @20/25KHz
Audio Distortion @ Rated Audio	≤3% (Typical)
Audio Response	+1 ~ -3dB(TIA603D)

Environmental	
Operating Temperature	-30° C ~ +60° C
Storage Temperature	-40° C ~ +85° C
ESD	IEC 61000-4-2 (level 4) ± 8kV (Contact) ± 15kV(Air)
Dust and Water Resistance	IP67
Reliability	MIL-STD-810 G

GPS	
Accuracy specs are for long-term tracking (95th percentile values>5satellites visible at nominal -130 dBm signal strength)	
TTF (Time To First Fix) - Cold Start	<60s
TTF (Time To First Fix) - Hot Start	<10s
Location Accuracy	<10m

Standard Accessories



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