

HM160 Specification

DESCRIPTION	Unit	LIMIT
Frequency Range:Transmit	MHz	156.025 To 162.425
Frequency Range:Receive	MHz	156.025 To 163.275
Number Of Channels		56 INT Channels
		52 USA Channels
		59 Canada Channels
		10 Weather Channels(only for USL)
Oscillate Mode		PLL
Modulation		FM(16K0G3E)
Channel Spacing	KHz	25
Frequency Stability	PPM	±5
Standard Operation Temperature	°C	-20 ~ +55
Controls :Volume		Rotary With ON/OFF
Channel		UP,DOWN Keys
SQL		SQL Key
Feature Keys		PTT,SQL
		16/9,HI/LO/LOCK,CH/*/UIC
		DW/TRI,SCAN,MEM,WX/ALT
Normal Working Voltage	V	7.4 (With Li-Polymer Battery)
Low Limit Working Voltage	V	6.8
Battery Lifetime (Tx 5% / Rx 5% / Standby 90%)	H	≥8
Memory		EEPROM
Antenna Socket		SMA
Display		LCD With Background Light
Built-In Speaker		Diamter 40mm / Impedance 8 Ohm
Dimension :		59.91mm(W)×138.65mm(H)×39.46mm(D)
Accessory :		USB cable
		Belt Clip
		Hand Strap
		Rubber Duck Antenna
		7.4V Li-Polymer Battery Pack (1700mAH)
		AC 100~240V / DC 9V Wall Adapter (worldwide)
RECEIVER		
1.Sensitivity For 12dB Sinad	dBμV	≤-6(EMF)
2.Squelch		
a) squelch threshold	dBμV	<-6.0(EMF)
b) attack time(closed->open)	ms	≤150
c) delay time(open->closed)	ms	≤250
d) hysteresis	dB	3~6
e) squelch tight	dBμV	0dBuV ~ +6dBuV

3.Rated audio output		
@5% Thd Speaker	mW	≥250
(VR @ max.)	±KHz	≤2.5
4.Max.S/N ratio @ 1mV	dB	≥40
5.Audio frequency resp.	dB	1000Hz/0dB ref.
@300Hz	dB	+7.5~+11.5
@2000Hz	dB	-9~-5
@3000Hz	dB	-12.5~-8.5
6.Signal displacement BW	±KHz	≥2
7.Adjacent ch.Rejection	dB	≥70
8.Image rejection	dB	≥70
9.Intermod rejection(3-Gen.Method)	dB	≥68
10.Spurious response rejection(CH16)80MHz to 1GHz	dB	≥70
11.Conducted spurious emission	dBc	≤-70
12.Scan time. Per channel	ms	≤200
13.Speaker output		
8Ω load @ Max Vol.	V	≥1.8
14.StandBy Current	mA	≤185
15.Max Audio Power	mA	≤380
16.Charging current	mA	760±130
TRANSMITTER		
1.Carrier power(no mod)		
Hi power	W	5±0.5
Low power	W	0.8±0.2
2.Carrier freq.Tolerance	ppm	±5
3.Max Modulation limiting	±KHz	5
4.Carrier attack time	ms	<80
5.Audio frequency response		
@300Hz	dB	-13.5~-9.5
@2000Hz	dB	3.0~7.0
@3000Hz	dB	+7.5~+10.5
6.Audio distortion @ 3 KHz Dev.	%	<5
7.Residual modulation	dB	≤-37
8.Mic sens.For 3KHz	mV	13±3
9.Conducted spurious emission	dBc	≤-56
10.Transient freq.Behavior		
a) TX on	ms	<30
b) TX off	ms	<5
11.Current drain		
Transmit(High)	A	<1.6
Transmit(Low)	A	<0.9
GENERAL STANDARD		
1. Floating&Flash		
2, Waterproof: IP67		
3.Communication Range: About 5 nautical miles		
4. Build in Battery		

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