

# VHF Radio Specifications

Specifications:

Model	VHF 7000	VHF 7100	VHF 7200
<b>GENERAL</b>			
Power supply	13.6 V DC	13.6 V DC	13.6 V DC
Current drain			
<b>Transmit</b>	6 A at 25 W Tx / 1.5 A at 1W Tx	6 A at 25 W Tx / 1.5 A at 1 W Tx	6 A at 25 W Tx / 1.5 A at 1 W Tx
<b>Receive</b>	Less than 250 mA in Standby	Less than 250 mA in Standby	Less than 250 mA in Standby
<b>Baro Sampling (Radio Off)</b>			Less than 3 mA, 85 mA in Active Standby
Useable Channels (country specific)	International, USA	International, USA, Canada, Weather	International, USA, Canada, Weather
Mode	16K0G3E (FM)	16K0G3E (FM) / 16K0G2B (DSC)	16K0G3E (FM) / 16K0G2B (DSC)
<b>PHYSICAL</b>			
LCD display (viewing)	1.0"(H) x 1.8"(W) FSTN 4x12 Character	1.0"(H) x 1.8"(W) FSTN 4x12 Character	1.9"(H) x 1.6"(W) FSTN 4x12 Character
Contrast and Dimming control	Yes	Yes	Yes
Antenna connector	SO-239 (50 ohm)	SO-239 (50 ohm)	SO-239 (50 ohm)
Temperature range	-15°C to +50°C	-15°C to +50°C	-15°C to +50°C
Waterproof	JIS-7	JIS-7	JIS-7
Dimensions w/o Bracket	5.8" Deep x 6.4" Wide x 2.8" Tall	5.8" Deep x 6.4" Wide x 2.8" Tall	5.8" Deep x 6.4" Wide x 2.8" Tall
Weight:	2.8lb w/o Mic	2.8lb w/o Mic	3.0lb w/o Mic
Frequency stability	+/- 10ppm	+/- 10ppm	+/- 10ppm
Frequency control	PLL	PLL	PLL
GPS/NMEA input	Yes	Yes	Yes
Comm. Port	4800 baud NMEA	4800 baud NMEA	4800 baud NMEA & 38,400 baud NavBus
DSC	No	Yes	Yes
Rotary Channel Selector			Yes
<b>FEATURES</b>			
Flush Mount Kit & Dust Cover	Yes	Yes	Yes
Local/Distant Control:	Yes	Yes	Yes
Position Polling		Yes	Yes
Track-your- buddy			Yes
Call Logs		Yes - 20 Individual & 10 Distress	Yes - 20 Individual & 10 Distress
DSC (USCG SC101 & CLASS D)		Yes	Yes
Barometer & Temperature & Happy Fish			Yes - 960-1050 mB at 1mB increments, -20 to 50°C
Channel Naming	Yes	Yes	Yes
Tri watch, All scan, Favorite Channel scan	Yes	Yes	Yes
User programmable MMSI ID		Yes	Yes
MMSI ID & NAME Directory		Yes - 20 numbers + Group	Yes - 20 numbers + Group
<b>TRANSMITTER</b>			
Frequency	156.025-157.425MHz	156.025-157.425MHz	156.025-157.425MHz
Output power	25 W/1 W selectable	25 W/1 W selectable	25 W/1 W selectable
Transmitter protection	open/short circuit of antenna	open/short circuit of antenna	open/short circuit of antenna
Max Freq deviation	+/- 5kHz	+/- 5kHz	+/- 5kHz
Spurious and harmonics	80dBc@25W, 60dBc@1W	better than 2.5 µW	better than 2.5 µW
Modulation distortion	Less than 4% @ 1kHz for a +/-3kHz deviation	Less than 4% @ 1kHz for a +/-3kHz deviation	Less than 4% @ 1kHz for a +/-3kHz deviation
<b>RECEIVER</b>			
Frequency	156.025-163.275MHz	156.025-163.275MHz	156.025-163.275MHz
12dB SINAD sensitivity	0.25uV (distant) / 2.5uV (local)	0.25uV (distant) / 2.5uV (local)	0.25uV (distant) / 2.5uV (local)
20dB SINAD sensitivity	0.35uV	0.35uV	0.35uV
Adjacent CH selectivity	More than 70 dB	More than 65 dB	More than 70 dB
Spurious response	More than 70 dB	More than 65 dB	More than 70 dB
Intermodulation Rejection Ratio	More than 68 dB	More than 65 dB	More than 68 dB
Residual Noise Level	More than -40 dB unsquelched	More than -40 dB unsquelched	More than -40 dB unsquelched
Audio output power	2 W (with 8 ohm at 10% distortion) 4 W with 4 ohm external speaker.	2 W (with 8 ohm at 10% distortion) 4 W with 4 ohm external speaker.	2 W (with 8 ohm at 10% distortion) 4 W with 4 ohm external speaker.

Specifications are subject to change without notice