

BENELEC

PROFESSIONAL WIRELESS PRODUCTS

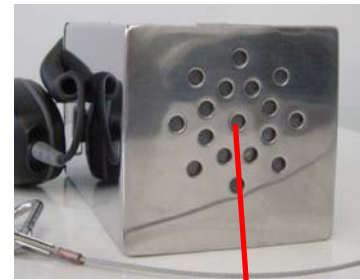
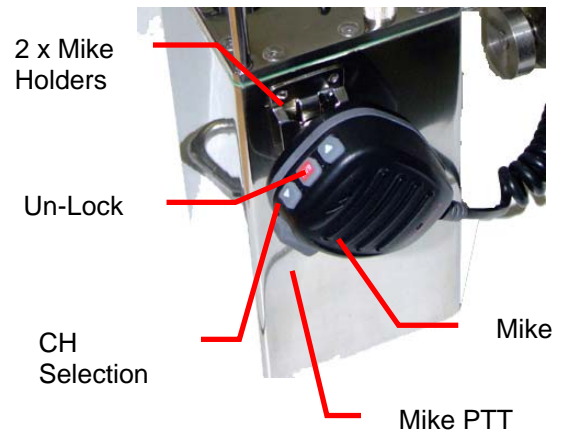
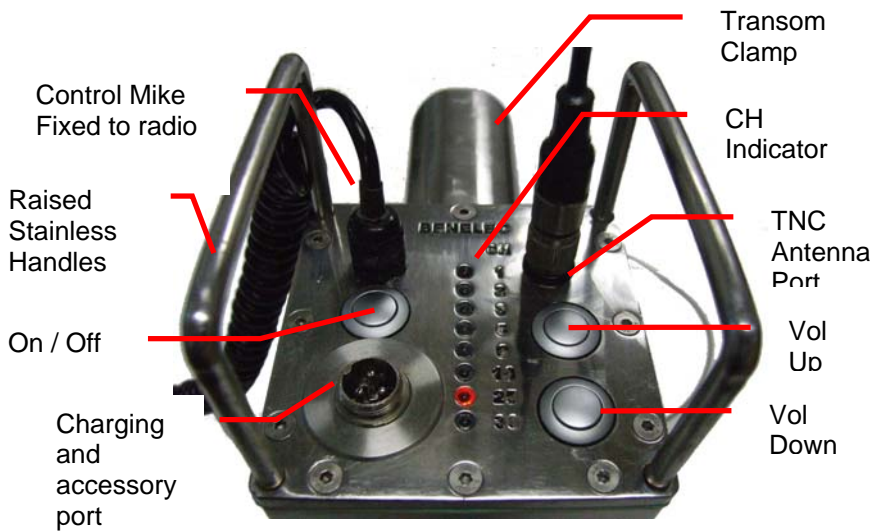
IRB01 Inflatable Rescue Boat Radio

Features

- ⇒ Submersible IP57 – 1m for 30 minutes
- ⇒ Rugged Polished All Stainless Housing
- ⇒ Fist Mike Controls : On/Off, Channel Up/Down, Volume Up/Down, PTT & Mike
- ⇒ Daylight viewable illuminated Channel indicator
- ⇒ Integrated Rugged UHF Antenna
- ⇒ Transom Mounting clamp
- ⇒ Integrated Safety Stainless Lanyard
- ⇒ Loud Amplified Audio 7w rms via built-in waterproof speaker
- ⇒ Separate On / Off, volume & CH selection switches
- ⇒ 10+ Hour Operation via re-chargeable NiMH battery
- ⇒ Radio – UHF 450-490MHz FM
- ⇒ 8 Channels
- ⇒ 5w RF Output



This Benelec IRB01 radio has been developed specifically for the harsh Surf Rescue environment where an IRB would be exposed to rough surf in salt water for long periods of time. The UHF based radio has 8 selectable channels via the controls on the fist mike. Channel indication is displayed on the top of the radio by sun light viewable LEDS. The radio is factory programmed to your channels. The IRB radio is mounted on the back transom of the boat and typically controlled by the driver. It is secured via a large Stainless clamp fitted to the radio and also integrates a safety lanyard, which can be fitted to the boat. The audio output has been amplified to provide loud clear audio via the base integrated Waterproof speaker and protective membrane. This allows all rescuers in the boat to hear the radio. An optional Submersible Headset allows the user to have direct access to the mike and speaker if required.



Radio Specifications – IRB01 (Part # 0115146)

General

Frequency range	:	450-490 MHz
Number of channels	:	8
Channel Spacing	:	25/20/12.5 kHz
Battery / Life	:	4000mAH NiMH, >10 hours use
Battery Voltage	:	7.5 VDC
Antenna	:	¼ wave @ UHF on TNC plug
Temperature Range	:	-30 to + 60°C

Receiver *

Circuit type	:	Double-Conversion Super heterodyne
IFs	:	50.85 MHz and 450 kHz
12-dB SINAD Sensitivity:	:	<0.25 µV
Squelch Sensitivity	:	<0.20 µV
Adjacent Sensitivity	:	>70dB (25/20kHz) >65dB (12.5kHz)
Intermodulation	:	>70dB
Spurious rejection	:	>70dB
Image rejection	:	>70dB
FM HAM Noise	:	>45dB
AF Output	:	0.5w @ 4 Ohms, 5% THD

Transmitter *

Power Output	:	5w
Frequency Stability	:	better than +/- 2.5ppm
Modulation System	:	Direct FM
Maximum Deviation	:	+/- 2.5kHz (12.5kHz) / +/-5.0kHz (25kHz)
FM Noise	:	>45dB
Spurious Emissions	:	<70dB below carrier
AF Distortion (@1kHz)	:	<3%
Microphone type	:	2-k Ohm Condenser

Radio Housing

Transom Max (mm)	:	60mm
Material	:	304 Stainless
Finish	:	Electro polished
Dimensions-Body (mm)	:	280 x 100 x 100mm (h x d x w)
Weight (Kg)	:	3.2Kg

* (Measurements made per EIA standard TIA/EIA-603)

Accessories

AC Charger – (Included with Radio) (Part # 090600612)

Input : 240VAC 50 Hz
or 110VAC 60Hz
Output : 12VDC @ 1Amp



DC Charger – (Option)

Input : 12VDC Lighter plt
Output : 12VDC @ 1A



Submersible Audio Headset (Option) (Part # 07842)

