

# IC-GM1600



## GMDSS Portable for Survival Craft

- **Meets the strict environmental requirements for survival craft radio**

The IC-GM1600 meets temperature, thermal shock, vibration and drop resistant (from 1 m height) requirements. After passing those environmental tests, the IC-GM1600 retains 1m depth waterproof construction as specified by IMO resolutions A.809(19), A.694(17), MSC149(77) and related specifications.

- **Optional high capacity Lithium battery, BP-234, has superior low temperature characteristics**

Provides more than 8 hours operating time even at  $-20^{\circ}\text{C}$ .  
(Duty cycle: Tx: Rx: Stand-by = 6: 6: 48)

- **Large keypad with positive button action**

- **Wide viewing angle LCD display**

- **Other features**

- One touch access to Channel 16 and call channel
- Highly visible yellow colored body
- Bright LED indicator on the top of panel
- Optional VOX headset for on-board use



## SPECIFICATIONS

### GENERAL

- Frequency range Tx/Rx : 156.300~156.875MHz
- Mode : FM (16K0G3E)
- Power supply requirement : 7.2/7.5V DC nominal
- Current drain (approx. at 7.2/7.5V DC) :
  - Tx 2W output 1.0A
  - 1W output 0.7A
  - Rx AF max. 200mA
- Operating Temp. range :
  - USA version -20°C to +60°C ; -4°F to +140°F
  - General version -20°C to +55°C
- Antenna impedance : 50Ω (SMA fixed-type)
- Dimensions (W×H×D) : 65×145×44 mm; 2<sup>9</sup>/<sub>16</sub>×5<sup>23</sup>/<sub>32</sub>×1<sup>23</sup>/<sub>32</sub> in (projections not included)
- Weight (approx.) : 385g; 13.6oz (with BP-234)

Measurement made in accordance with TIA/EIA-603 and FCC part 80.271 for USA version. ETS 300-225-3 for General version. All stated specifications are subject to change without notice or obligation.

### TRANSMITTER

- Output power : 2W/1W (Hi/Low)
- Max. frequency deviation : ± 5.0kHz
- Frequency error :
  - USA version ± 5.0ppm
  - General version ± 1.5kHz
- Spurious emissions :
  - USA version -70dBc typ.
  - General version 0.25μW (30MHz~1GHz)
  - 1.00μW (1GHz~2GHz)
- Adjacent channel power : 70dB
- FM Hum and noise ratio : 40dB
- Audio harmonic distortion : Less than 10% (at 60% dev.)

#### Supplied accessories: (\* Depending on version)

- Battery pack, BP-224 • Battery charger, BC-158
- AC adapter, BC-147A/E • Belt clip, MB-103Y
- Antenna, FA-S61V • Neck strap

### RECEIVER

- Sensitivity :
  - USA version 0.25μV typ. (12dB SINAD)
  - General version -2dBμ typ. (emf: 20dB SINAD)
- Squelch sensitivity :
  - USA version 0.35μV typ. (at threshold)
  - General version -6dBμ typ. (emf: at threshold)
- Adjacent channel selectivity : 70dB
- Spurious response : 70dB
- Intermodulation rejection :
  - USA version 70dB
  - General version 68dB
- Hum and noise ratio : 40dB
- Audio output power (at 10% distortion with an 8Ω load) :
  - USA version 0.35W typ.
  - General version 0.2W

To comply with the requirements of GMDSS survival craft radio, the primary battery pack, BP-234, is required.

## OPTIONS

### BATTERY PACKS



BP-234 BP-224/BP-225

#### <For survival craft>

**BP-234** 9.0V/3300mAh LITHIUM BATTERY PACK  
Large capacity non-rechargeable battery pack.

#### <For on-board use>

**BP-224/BP-225** Ni-Cd BATTERY PACKS  
BP-224 : 7.2V/750mAh. Same as supplied.  
BP-225 : 7.2V/1100mAh.

### REGULAR CHARGER



BC-158

#### <For on-board use>

**BC-158** DESKTOP CHARGER  
+ **BC-147A/E** AC ADAPTER

Regularly charges the BP-224 in 8~12 hours and the BP-225 in 12~18 hours. Same as supplied.

### RAPID CHARGER



BC-145A/E BC-119N

#### <For on-board use>

**BC-119N** DESKTOP CHARGER  
+ **AD-109** CHARGER ADAPTER

+ **BC-145A/E** AC ADAPTER  
For rapid charging of battery pack. Charges the BP-224 in 1.5~2.0 hours and the BP-225 in 2.2~2.8 hours.

### MULTI-CHARGER



BC-121N+AD-109 (6 pcs.)

#### <For on-board use>

**BC-121N** MULTI-CHARGER + **AD-109** CHARGER ADAPTER  
+ **BC-157** AC ADAPTER

For rapid charging of up to 6 BP-224 battery packs (Six AD-109s are required). Charges the BP-224 in 1.5~2.0 hours and the BP-225 in 2.2~2.8 hours.

### HEADSETS AND ADAPTER CABLE



HS-95 OPC-1392

#### <For on-board use>

**HS-94** EARPHONE-HEAD HEADSET  
**HS-95** BEHIND-THE-HEAD HEADSET  
**HS-97** THROAT MICROPHONE  
+ **OPC-1392** HEADSET ADAPTER CABLE  
For VOX hands-free operation. These headsets are not waterproof.

### SPEAKER-MICROPHONE



HM-125

#### <For on-board use>

**HM-125**  
Full sized, submersible construction corresponds to IPX7 (1 m depth /30 min.).

### BELT CLIPS



MB-103Y MB-86

#### MB-103Y

Alligator type belt clip. Same as supplied.

#### MB-86

Swivel belt clip. Prevents accidental dropping from your belt.

### LEATHER BELT HANGERS



MB-96N

#### MB-96F

Fixed type belt hanger. Use with MB-103Y.

#### MB-96N

Swivel type belt hanger. Swivel joint of the MB-86 is supplied.

#### <For on-board use> POWER SUPPLY CABLES

**CP-17L** CIGARETTE LIGHTER CABLE WITH NOISE FILTER  
Allows charging of battery pack through a 12 V cigarette lighter socket for BC-119N or BC-158.

**OPC-515L** DC POWER CABLE  
For use with the BC-119N or BC-158 with an external DC power supply. (12~16 V DC required)

**OPC-656** DC POWER CABLE  
For use with the BC-121N with a DC power supply. (12~16V DC required)

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