

# 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)

Icom Inc. 1-1-32, Kami-minami, Hirano-ku, Osaka 547-0003, Japan Phone: +81 (06) 6793 5302 Fax: +81 (06) 6793 0013 URL: <http://www.icom.co.jp/world/index.html>

Count on us!

### Icom America Inc.

2380 116th Avenue NE,  
Bellevue, WA 98004, U.S.A.  
Phone : +1 (425) 454-8155  
Fax : +1 (425) 454-1509  
E-mail : sales@icomamerica.com  
URL : <http://www.icomamerica.com>

### Icom New Zealand

146A Harris Road, East Tamaki,  
Auckland, New Zealand  
Phone : +64 (09) 274 4062  
Fax : +64 (09) 274 4708  
E-mail : inquiries@icom.co.nz  
URL : <http://www.icom.co.nz>

### Icom (UK) Ltd.

Unit 9, Sea St., Herne Bay,  
Kent, CT6 8LD, U.K.  
Phone : +44 (01227) 741741  
Fax : +44 (01227) 741742  
E-mail : info@icomuk.co.uk  
URL : <http://www.icomuk.co.uk>

### Asia Icom Inc.

6F No. 68, Sec. 1 Cheng-Teh Road,  
Taipei, Taiwan, R.O.C.  
Phone : +886 (02) 2559 1899  
Fax : +886 (02) 2559 1874  
E-mail : sales@asia-icom.com  
URL : <http://www.asia-icom.com>

Your local distributor/dealer:

### Icom Canada

Glenwood Centre #150-6165 Highway 17,  
Delta, B.C., V4K 5B8, Canada  
Phone : +1 (604) 952-4266  
Fax : +1 (604) 952-0090  
E-mail : info@icomcanada.com  
URL : <http://www.icomcanada.com>

### Icom (Europe) GmbH

Communication Equipment  
Himmelgeister Str. 100,  
D-40225 Düsseldorf, Germany  
Phone : +49 (0211) 346047  
Fax : +49 (0211) 333639  
E-mail : info@icomeurope.com  
URL : <http://www.icomeurope.com>

### Icom France s.a.s.

Zac de la Plaine,  
1 Rue Brindejone des Moulins, BP 45804,  
31505 Toulouse Cedex 5, France  
Phone : +33 (5) 61 36 03 03  
Fax : +33 (5) 61 36 03 00  
E-mail : icom@icom-france.com  
URL : <http://www.icom-france.com>

### Icom (Australia) Pty. Ltd.

Unit 1 / 103 Garden Road,  
Clayton VIC 3168 Australia  
Phone : +61 (03) 9549 7500  
Fax : +61 (03) 9549 7505  
E-mail : sales@icom.net.au  
URL : <http://www.icom.net.au>

### Icom Spain S.L.

Ctra. Rubi, No. 88 "Edificio Can Castanyer"  
08190, Sant Cugat del Valles, Barcelona, Spain  
Phone : +34 (93) 590 26 70  
Fax : +34 (93) 589 04 46  
E-mail : icom@icomspain.com  
URL : <http://www.icomspain.com>

### Icom Polska

Sopot, 3 maja 54, Poland  
Phone : +48 (58) 550 7135  
Fax : +48 (58) 551 0484  
E-mail : icompolska@icompolska.com.pl  
URL : <http://www.icompolska.com.pl>



marinesales@mackaymarine.com  
+1 281 479 1515  
service@mackaymarine.com  
+1 281 478 6245