

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.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°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;
 - (projections not included) 2⁹/₁₆×5²³/₃₂×1²³/₃₂ in
- 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 :
 - 70dBc typ.
 - USA version 0.25μW (30MHz–1GHz)
 - General version 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-147SA/SE*
- 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-147SA/SE** 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-145SA/SE B C - 119N

<For on-board use>
BC-119N DESKTOP CHARGER
 + **AD-109** CHARGER ADAPTER
 + **BC-145SA/SE** 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.
OPC-656 DC POWER CABLE
 For use the BC-121N with a DC power supply. (12–16V DC required)

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.

POWER SUPPLY CABLES



CP-23L OPC-515L

<For on-board use>
CP-23L 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)

Icom Inc. 1-1-32, Kami-minami, Hirano-ku, Osaka 547-0003, Japan Phone: +81 (06) 6793 5302 Fax: +81 (06) 6793 0013

www.icom.co.jp/world

Count on us!

Icom America Inc.

12421 Willows Road NE,
 Kirkland, WA 98034, U.S.A.
 Phone : +1 (425) 454-8155
 Fax : +1 (425) 454-1509
 E-mail : sales@icomamerica.com
 URL : http://www.icomamerica.com

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 Brazil

Rua Iitororó, 444 Padre Eustáquio
 Belo Horizonte MG,
 CEP: 30130-150, Brazil
 Phone : +55 (31) 3582 8847
 Fax : +55 (31) 3582 8987
 E-mail : sales@icombrasil.com

Icom (Europe) GmbH

Communication Equipment
 Auf der Krautweide 24
 65812 Bad Soden am Taunus, Germany
 Phone : +49 (6196) 76685-0
 Fax : +49 (6196) 76685-50
 E-mail : info@icom-europe.com
 URL : http://www.icomeurope.com

Icom Spain S.L.

Ctra. Rubi, No. 88 "Edificio Can Castanyer"
 Bajos A 08174, 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 Sp. Z o.o.

80-286 Gdansk, Jaskowa Dolina St. 75, Poland
 Phone : +48 (58) 551 0484
 Fax : +48 (58) 551 4720
 E-mail : icompolska@icompolska.com.pl
 URL : http://www.icompolska.com.pl

Icom (UK) Ltd.

Blacksole House, Altira Park,
 Herne Bay, Kent, CT6 6GZ, U.K.
 Phone : +44 (0) 1227 741741
 Fax : +44 (0) 1227 741742
 E-mail : info@icomuk.co.uk
 URL : http://www.icomuk.co.uk

Icom France s.a.s.

Zac de la Plaine,
 1 Rue Brindajonc des Moulinais, 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 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

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

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