



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°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; 2⁹/₁₆×5²³/₃₂×1²³/₃₂ 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

BC-147A/E

<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



AD-109

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.)

BC-157

<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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