IMPORTANT

READ ALL INSTRUCTIONS carefully and completely before using the transceiver.

SAVE THIS INSTRUCTION MANUAL – This instruction manual contains important safety and operating instructions for the IC-M10E.

CAUTIONS

NEVER allow children to operate the transceiver.

KEEP the transceiver at least 1 m away from the ship's navigation compass.

NEVER charge battery packs except in the methods described in this manual.

AVOID exposing the transceiver to direct sunlight for long periods of time.

AVOID operating the transceiver in areas with temperatures below $-20^\circ\text{C}$ or above $+60^\circ\text{C}$.

BE CAREFUL! If immersed in fresh or salt water, permanent damage may result.
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GETTING STARTED

Operating rules

- PRIORITIES
  1) Read all rules and regulations pertaining to priorities and keep an up-to-date copy handy. Safety and distress calls take priority over all others.

  2) You must monitor channel 16 when you are not operating on another channel.

  3) False or fraudulent distress calls are prohibited under law.

- PRIVACY
  1) Information overheard but not intended for you cannot lawfully be used in any way.

  2) Indecent or profane language is prohibited.

- RADIO LICENSES
  (1) SHIP STATION LICENSE
  When your craft is equipped with a VHF FM transceiver, you must have a current radio station license before using the transceiver. It is unlawful to operate a ship station which is not licensed.

  Inquire through your dealer or the appropriate government agency for a Ship-Radiotelephone license. This license includes the call sign which is your craft's identification for radio purposes.

  (2) OPERATOR'S LICENSE
  A Restricted Radiotelephone Operator Permit is the license most often held by small vessel radio operators when a radio is not required for safety purposes. You can usually obtain this permit by mail.

  The Restricted Radiotelephone Operator Permit must be posted near the transceiver or be kept with the operator. Only a licensed radio operator may operate a transceiver.

  However, non-licensed individuals may talk over a transceiver if a licensed operator starts, supervises, ends the call and makes the necessary log entries.

  A current copy of the applicable government rules and regulations is usually required to be on hand.
Unpacking and accessory attachment

◊ UNPACKING
The following accessories are supplied:

<table>
<thead>
<tr>
<th>Accessory</th>
<th>Qty.</th>
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</thead>
<tbody>
<tr>
<td>Flexible antenna (FA-B55V)</td>
<td>1</td>
</tr>
<tr>
<td>Handstrap</td>
<td>1</td>
</tr>
<tr>
<td>Belt clip</td>
<td>1</td>
</tr>
<tr>
<td>Battery charger* (AD-54)</td>
<td>1</td>
</tr>
<tr>
<td>AC adapter* (BM-113U/E)</td>
<td>1</td>
</tr>
<tr>
<td>Battery pack or battery case*</td>
<td>1</td>
</tr>
</tbody>
</table>

*Not supplied with some versions.

◊ FLEXIBLE ANTENNA
Mate the 2 notches on the antenna base with the two protrusions on the antenna connector; then, while pushing the base towards the transceiver, rotate it clockwise until it clicks into place.

CAUTION: Transmitting without an antenna may damage the transceiver.

◊ BELT CLIP
To attach:
Slide the belt clip into the plastic loop on the back of the transceiver.

To remove:
Push the top of the belt clip towards the transceiver and at the same time, push it downwards and free of the plastic loop.

◊ HANDSTRAP
Slide the handstrap through the loop on the side of the transceiver as illustrated at right. Facilitates carrying.
1 GETTING STARTED

- Battery cautions

**NEVER** incinerate used battery packs. Internal battery gas may cause an explosion.

**NEVER** immerse the battery pack in water. If the battery pack becomes wet, be sure to wipe it dry BEFORE attaching it to the transceiver.

**NEVER** short terminals of the battery pack. Also, current may flow into nearby metal objects so be careful when placing battery packs in handbags, etc.

If your battery pack seems to have no capacity even after being charged, completely discharge it by leaving the power ON overnight. Then, fully charge the battery pack again. If the battery pack still does not retain a charge (or very little), a new battery pack must be purchased.

- Installing dry cell batteries

When your transceiver comes equipped with a battery case (BP-130A) instead of a battery pack (BP-160 or BP-174), follow the instructions below for battery installation.

1. Open the case as illustrated below.

2. Install 6 x AA(R6) size dry cell batteries.
   - BE SURE to observe the correct polarities.
**Battery charging**

Prior to using the transceiver for the first time, the battery pack must be fully charged for optimum life and operation.

**CAUTION:** To avoid damage to the transceiver, turn it OFF while charging.

- The BP-130A BATTERY CASE cannot be charged even when Ni-Cd batteries are installed.
- Recommended temperature range for charging: 10°C to +40°C.
- Use specified Icom chargers only.
- BC-79 accepts 12 V only via optional CP-13 when a cigarette lighter socket is used instead of an AC adapter.
- AD-54 accepts 12* or 24 V via optional CP-1 when a cigarette lighter socket is used instead of an AC adapter.
  *24 V only for charging the BP-174.

1. Connect the AC adapter (supplied with the charger) between a domestic AC power outlet and the charger (BC-79 or AD-54).
2. Insert the transceiver with attached battery pack (or the battery pack only) into the charger.
   - The charge indicator lights.
3. When charging is complete, the BC-79’s charge indicator automatically turns OFF.
   - The AD-54 continues charging even when the battery pack is fully charged.

**Charging time:** approx. 15 to 20 hours (AD-54) approx. 1 to 3 hours (BC-79 + AD-28)
### Front panel

**CHANNEL 16 SWITCH [16] (p. 8)**
- Toggles between channel 16 and a regular channel.
- When [FUNC] is pushed and held, toggles between U.S.A. and International channels. (Not available for some versions.)

**CALL SWITCH [C] (p. 8)**
- Toggles between the call channel and a regular channel.

**MEMO SWITCH [MEMO-MW] (p. 8)**
- Selects a memory channel.
- When [FUNC] is pushed, writes the selected channel into a memory.

**TRANSMIT POWER SWITCH [H/L] (p. 9)**
- Selects high or low output power.

**LIGHT SWITCH [LIGHT•[ ] (pgs. 10, 16)**
- Turns the function display lighting ON and OFF.
- In addition, when [FUNC] is pushed and held, activates the lock function.

**DUAL WATCH SWITCH [DUAL-SCAN] (pgs. 12–14)**
- Starts and stops dual/tri-watch.*
- When pushed and held, starts normal or priority scan.*
- In addition, when [FUNC] is pushed and held, this switch locks out the indicated channel.
*Not available for some versions.
# Top and side panels

**PTT SWITCH [PTT]** (p. 9)
Push and hold to transmit; release to receive.

**FUNCTION SWITCH [FUNC]**
Push and hold to activate the secondary functions of other switches.

**BATTERY RELEASE BUTTON**

*To remove the battery pack:*
Push and hold the battery release button upwards, then slide the battery pack to the right with the transceiver facing you.

*To attach the battery pack:*
Mate the notched ends of the transceiver and the battery pack, and slide the battery pack into place.

**ANTENNA CONNECTOR** (p. 2)
Connects the supplied antenna.

**EXTERNAL SPEAKER/MICROPHONE JACKS [SP/MIC]** (p. 20)
Connect an optional speaker-microphone.

**VOLUME CONTROL [OFF/VOL]** (p. 9)
Turns power ON and adjusts the audio level.

**CHANNEL SELECTOR [CHANNEL]** (pgs. 8, 9)
- Sets an operating channel during normal operation.
- Sets a memory channel while in memory mode.
- Sets a squelch threshold level while pushing [FUNC].
### Function display

**BUSY INDICATOR** (p. 9)
Appears when receiving a signal or when the squelch is set too low (p. 10).

**TRANSMIT INDICATOR** (p. 9)
Appears while transmitting.

**LOCK INDICATOR** (p. 10)
Appears while the lock function is activated.

**DUALWATCH INDICATOR** (p. 12)
"DUAL" appears during dualwatch; "DUAL" and "awah" appear during tri-watch.

**CALL CHANNEL INDICATOR** (p. 8)
Indicates the call channel is selected.

**TRANSMIT POWER INDICATOR** (p. 9)
Appears when low output power is selected; disappears when high output power is selected. High output power cannot be selected on some channels. (See channel list, p. 18.)

**INTERNATIONAL CHANNEL INDICATOR** (p. 8)
Indicates an international channel is displayed.

**LOCKOUT CHANNEL INDICATOR** (p. 14)
Appears when the displayed channel is locked out.

**SCAN INDICATOR** (p. 14)
Appears while a scan is activated.

**MEMORY INDICATOR** (p. 8)
Appears when in memory mode.

**MEMORY CHANNEL INDICATOR** (pgs. 11, 16)
- Indicates the selected memory channel number.
- In SET mode, indicates the selected condition.

**CHANNEL NUMBER INDICATOR** (p. 8)
- Indicates the selected operating channel number.
- In SET mode, indicates selected item.
Channel selection

◇ Channel 16
Channel 16 is the distress channel. It is used for establishing initial contact with another station and for emergency communications. While standing by you are required to monitor channel 16.

Push

◇ Regular channels
There are 55 international channels. Establish initial contact on channel 16, then move to an agreed upon channel for communications.

Push

once or twice

- Pushing [C] or [MEMO] twice also selects a regular channel.
- Rotate the channel selector to set the desired channel.
- While pushing [FUNC], push [16] to toggle the International and U.S.A. channels.*
*Not available for some versions.

◇ Call channel
The call channel is used to store your most often-used channel for quick recall. In addition, the call channel is monitored during tri-watch. The default call channel differs depending on versions.

Push

appears

◇ Memory channels
24 memory channels are used to store often-used frequencies for easy recall and scanning.

Push

appears

- Rotate the channel selector to set the desired memory channel.
- See p. 11 for memory channel programming.

See p. 11 for call channel programming.
Receiving and transmitting

**CAUTION:** Transmitting without an antenna may damage the transceiver.

1. Rotate [OFF/VOL] clockwise to turn power ON, then set to the 12 o'clock position.
   - Use the squelch function to mute any audio noise if necessary. Refer to page at right for details.
2. Rotate [CHANNEL] to select the desired channel.
   - When receiving a signal, **BUSY** appears and audio is emitted from the speaker.
   - Further adjustment of [OFF/VOL] may be necessary at this point.
3. Push [H/L] to select the output power if necessary.
   - "LOW" appears when low power is selected.
   - Choose low power to conserve battery power; choose high power for longer distance communications.
   - **TX** appears.
5. Speak into the microphone.

**IMPORTANT:** To maximize the readability of your transmitted signal, pause a few sec. after pushing [PTT], hold the microphone 10 to 15 cm from your mouth and speak at a normal voice level.

---

**CHANNEL RESTRICTIONS**

<table>
<thead>
<tr>
<th>CHANNEL NUMBER</th>
<th>INTERNATIONAL CHANNELS</th>
<th>U.S.A. CHANNELS</th>
</tr>
</thead>
<tbody>
<tr>
<td>13</td>
<td>No restriction</td>
<td>Low power only</td>
</tr>
<tr>
<td>15</td>
<td>Low power only</td>
<td>Receive only</td>
</tr>
<tr>
<td>17</td>
<td>Low power only</td>
<td></td>
</tr>
<tr>
<td>67</td>
<td>No restriction</td>
<td>Low power only</td>
</tr>
<tr>
<td>70</td>
<td>Low power only</td>
<td></td>
</tr>
</tbody>
</table>
Adjusting the squelch

The IC-M10E has a squelch even though there is no control knob for it. In order to receive signals properly, as well as for scan to function, the squelch must be adjusted to a suitable level.

As a general rule, the squelch should be adjusted to its threshold point i.e. the point where audio noise is just muted.

1. While pushing [FUNC], rotate the channel selector.
   - The first "click" of the channel selector indicates the current squelch level.
   - There are 9 squelch levels to choose from:
     0 is completely open (all signals, including noise, are received);
     8 is completely closed (only strong signals can be received).
2. Release [FUNC] when the desired squelch level is indicated in the function display.
   - The squelch indicator disappears.

**NOTE:** The squelch indicator does not appear when adjusting the squelch during scanning or dual/tri-watch.

Lock function

This function electronically locks all keys and switches to prevent accidental frequency changes and function access.

1. While pushing [FUNC], push [LIGHT\(\rightarrow\)].
   - "LOCK" appears.
   - Only [PTT], [H/L] and [LIGHT] are functional.
2. To cancel the function, repeat step 1 above.
   - "LOCK" disappears from the function display.

Function display backlighting

This is convenient for nighttime operation.

1. Push [LIGHT] to turn the function display backlighting ON.
   - The backlighting automatically turns OFF after 5 sec. if no other keys or switches are pushed during that time.
   - To conserve battery power, use the backlighting only when necessary.
2. To turn the function display backlighting OFF before 5 sec. have elapsed, push [LIGHT] again.
Memory channels

- **To program:**
  1. Push [MEMO] to select a memory channel.
  2. While pushing [FUNC], push [MEMO•MW].
     - "MEMO" and the memory channel number flash.
  3. Rotate [CHANNEL] until the desired memory appears.
     - Channel number flashes.
  5. Rotate [CHANNEL] until the desired channel appears.
  6. While pushing [FUNC], push [MEMO•MW] to complete programming.
     - Channel number stops flashing.

Call channel

- **To program:**
  1. Push [C] to select the call channel.
  2. While pushing [FUNC], push [C].
     - The previously selected regular channel flashes.
  3. Rotate [CHANNEL] until the desired channel appears.
  4. While pushing [FUNC], push [C] again to complete programming.
     - The call channel stops flashing.
**Description**

Dualwatch monitors ch 16 while you are receiving another channel; tri-watch* monitors ch 16 and the call channel while receiving another channel. Select dualwatch or tri-watch in advance using SET mode (p. 15).

**DUALWATCH/TRI-WATCH SIMULATION**

Dualwatch

Trial

Call channel†

†Differs depending on versions.

- If a signal is received on channel 16, dualwatch/tri-watch pauses on channel 16 until the signal disappears.

- If a signal is received on the call channel during tri-watch, tri-watch becomes dualwatch until the signal disappears.

- To transmit on the selected channel during dualwatch/tri-watch, push and hold [PTT].

**Operation**

1. Select the desired operating channel.
2. Push [DUAL] to start dualwatch/tri-watch.*
   - "DUAL" blinks during dualwatch; "DUAL †" blinks during tri-watch.
   - Tri-watch becomes dualwatch when receiving a signal on the call channel.
3. To cancel dualwatch/tri-watch, push [DUAL] again.

**[EXAMPLE]: Operating tri-watch on INT channel 07.**

Push

<table>
<thead>
<tr>
<th>Dualwatch</th>
<th>Tri-watch</th>
</tr>
</thead>
<tbody>
<tr>
<td>[DUAL]</td>
<td>INT</td>
</tr>
</tbody>
</table>

- Tri-watch starts.
- 16 appears during dual/tri-watch.
- Signal received on call channel.
- Signal received on channel 16 takes priority.
- Tri-watch resumes after the signal disappears.

*Spain version does not have the tri-watch function.
Scan types

Scanning is an efficient way to locate signals quickly over a wide frequency range. The transceiver has 4 scan types:

- Priority scan (regular ch)
- Priority scan (memory ch)
- Normal scan (regular ch)
- Normal scan (memory ch)

**NOTE:** Some versions have no scan function and some version have priority scan only.

In addition, channels can be locked out of any scan type. Lock out channels which inconveniently stop scanning, such as beacon channels.

**NOTE:** A paused channel is not backed up automatically. Push [16] to stop the scan then wait 2 sec. before turning power OFF, otherwise, the previous channel appears when turning power ON again.

**Priority scan**

Priority scans search through all channels/memory channels in sequence while monitoring channel 16. When a signal is detected on channel 16, scan pauses until the signal disappears; when a signal is detected on a channel other than channel 16, scan becomes dualwatch until the signal disappears.

**Normal scan**

Normal scans, like priority scans, search through all channels/memory channels in sequence. However, unlike priority scan, channel 16 is only checked in sequence as other channels/memory channels are.
Starting a scan

Set priority scan or normal scan in advance using SET mode (see p. 15).

1. Make sure channel 16 or the call channel is not selected.
   - Select a regular channel or memory channel (see p. 8).
2. Make sure the squelch is set to its threshold point. (p. 10)
3. Push and hold [DUAL•SCAN] for 2 seconds.
   - "SCAN" appears and flashes in the function display.
   - When a signal is detected, scan pauses until the signal disappears. (Ch 16 is still monitored during priority scan.)
   - Rotate the channel selector to change the scanning direction.
4. To stop the scan, push [DUAL•SCAN].
   - "SCAN" disappears.
   - Pushing [16], [C] or [MEMO] also stops the scan.

Channel lockout

For more efficient scanning, set unwanted channels as lockout channels. Channels set as lockout channels will be skipped during scanning. Channel lockout is assigned to regular channels and memory channels independently.

1. Select the channel to be locked out (either a regular channel or a memory channel).
   - Channel 16 or the call channel CANNOT be locked out.
2. While pressing [FUNC], press [DUAL•SCAN L].
   - "L" appears in the function display and the channel is locked out.
3. To unlock a channel, repeat step 2 above.

Starting a scan (example — priority scan of regular channels):

Push [16] or [MEMO] to select a regular channel if necessary.

---

Scan pauses when receiving a signal and audio is emitted.

---

Push to stop the scan.
SET MODE

\section*{SET mode programming}

SET mode is used to change the conditions of 3 transceiver functions: the power saver function, the dual/tri-watch* function and the scan* function.

1. Turn power OFF.
2. While pushing [FUNC], turn power ON and continue pushing [FUNC] until the display appears.
3. After the display appears, release [FUNC].
4. Push [FUNC] to select the desired item, if necessary.
5. Rotate [CHANNEL] to select the desired condition of the item as shown in the table at right.
6. To exit SET mode, push [16].
   - Turning power OFF, then ON again also exits SET mode.

These displays show the default settings.

Power saver  \hspace{1cm} \text{Towards left} \hspace{1cm} \text{Watch condition*}

\begin{center}
\begin{tabular}{c|c|c}
00 & Power saver OFF & \text{The power saver function helps conserve battery power by automatically resting the receiver circuit when the transceiver is idle. For maximum battery conservation, choose the highest duty cycle:} \\
14 & Power saver duty cycle 1:4 & 1:8 \\
18 & Power saver duty cycle 1:8 & \\
\end{tabular}
\end{center}

\text{DISPLAY} \hspace{1cm} \text{CONDITION} \hspace{1cm} \text{COMMENT}

\text{P-} \hspace{1cm} \text{Priority scan*} \hspace{1cm} \text{Select priority scan if you want to monitor the distress channel (16) while scanning.}

\text{n-} \hspace{1cm} \text{Normal scan*} \hspace{1cm} \\

\text{02} \hspace{1cm} \text{Dualwatch operation} \hspace{1cm} \text{Choose tri-watch if you want to monitor the call channel in addition to channel 16 and a selected channel.}

\text{03} \hspace{1cm} \text{Tri-watch operation*} \hspace{1cm} \\

*Some versions do not have the scan functions or have priority scan only. The tri-watch function is not available for some versions. Scan and watch conditions do not appear for these versions.
<table>
<thead>
<tr>
<th>PROBLEM</th>
<th>POSSIBLE CAUSE</th>
<th>SOLUTION</th>
<th>REF.</th>
</tr>
</thead>
<tbody>
<tr>
<td>No power comes ON.</td>
<td>• The battery is exhausted.</td>
<td>• Recharge the battery pack.</td>
<td>p. 3,4</td>
</tr>
<tr>
<td></td>
<td>• Bad connection to the battery pack.</td>
<td>• Check the connection to the transceiver.</td>
<td>p. 6</td>
</tr>
<tr>
<td>No sound comes from the speaker.</td>
<td>• Squelch level is too deep.</td>
<td>• Set squelch to the threshold point.</td>
<td>p. 10</td>
</tr>
<tr>
<td></td>
<td>• [OFF/VOL] is turned completely CCW.</td>
<td>• Set [OFF/VOL] to a suitable level.</td>
<td>p. 9</td>
</tr>
<tr>
<td>Transmitting is impossible, or</td>
<td>• Some channels are for low power only.</td>
<td>• Change channels.</td>
<td>p. 8</td>
</tr>
<tr>
<td>high power cannot</td>
<td>• The battery is exhausted.</td>
<td>• Replace or charge the batteries.</td>
<td>p. 3,4</td>
</tr>
<tr>
<td>be selected.</td>
<td>• The output power is set to low.</td>
<td>• Push [H/L] to select high output power.</td>
<td>p. 9</td>
</tr>
<tr>
<td>The displayed channel</td>
<td>• Lock function is activated.</td>
<td>• While pushing [FUNC], push [LIGHT·( ).</td>
<td>p. 10</td>
</tr>
<tr>
<td>cannot be changed.</td>
<td>• Channel 16 mode has been selected.</td>
<td>• Push [16] to return to normal operation.</td>
<td>p. 8</td>
</tr>
<tr>
<td></td>
<td>• Dual/tri-watch has been activated.</td>
<td>• Push [DUAL·SCAN] to cancel dual/tri-watch.</td>
<td>p. 12</td>
</tr>
<tr>
<td></td>
<td>• Scan has been activated.</td>
<td>• Push and hold [DUAL·SCAN] to cancel scan.</td>
<td>p. 14</td>
</tr>
<tr>
<td>Scanning or dual-watch/tri-watch</td>
<td>• Channel 16 mode has been selected.</td>
<td>• Push [16] to return to normal operation.</td>
<td>p. 8</td>
</tr>
<tr>
<td>does not function.</td>
<td>• The squelch is open.</td>
<td>• Set squelch to the threshold point.</td>
<td>p. 10</td>
</tr>
<tr>
<td>Memory scan does not function.</td>
<td>• Not enough memory channels are programmed with channel information.</td>
<td>• Program 2 or more memory channels with channel information.</td>
<td>p. 11</td>
</tr>
<tr>
<td>Dualwatch functions but tri-watch</td>
<td>• You must set the transceiver to operate one or the other.</td>
<td>• Select dualwatch or tri-watch operation in SET mode.</td>
<td>p. 15</td>
</tr>
<tr>
<td>doesn’t or vice versa.</td>
<td></td>
<td></td>
<td></td>
</tr>
</tbody>
</table>
# Specifications

- **GENERAL**
  - Frequency coverage:
    - Transmit: 156–157.5 MHz
    - Receive: 156–163 MHz
  - Mode: FM (16K0G3E)
  - Channel spacing: 25 kHz
  - Power supply requirement: Icom battery pack (see table on p. 19)
  - Frequency stability: ± 0.0005% (-20°C to +60°C)
  - Usable temperature range: -20°C to +60°C
  - Dimensions:
    - with BP-130A/BP-160: 60(W) × 127(H) × 40(D) mm
    - with BP-174: 60(W) × 155(H) × 40(D) mm (projections not included)
  - Weight:
    - with BP-130A: 300 g
    - (incl. 6 dry cells)
    - with BP-160: 310 g
    - with BP-174: 422 g

- **TRANSMITTER**
  - Modulation system: Variable reactance
    - phase modulation
  - Max. frequency deviation: ± 5.0 kHz
  - Spurious emissions: 0.25 μW

- **RECEIVER**
  - Receive system: Double-conversion
    - superheterodyne
  - Sensitivity (12 dB SINAD): 0.35 μV
  - Squelch sensitivity: Less than 0.3 μV (at threshold)
  - Intermodulation rejection ratio: 68 dB
  - Spurious response rejection ratio: 70 dB
  - Adjacent channel selectivity: 70 dB
  - Audio output power: 500 mW with an 8Ω load
  - Current drain:
    - Max. audio: 300 mA max.
    - (w/supplied battery pack) Power saved: 19 mA typical (squelched)

All stated specifications are subject to change without notice or obligation.
# Channel list

- **International channels**

<table>
<thead>
<tr>
<th>CH</th>
<th>Frequency (MHz)</th>
<th>Frequency (MHz)</th>
<th>CH</th>
<th>Frequency (MHz)</th>
<th>Frequency (MHz)</th>
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*Low power only.

- **U.S.A. channels**

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*Low power only.
†Transmit is inhibited.
## Options

Some versions cannot use all options listed below since type approval for the IC-M10E varies between countries. Ask your Icom Dealer which options are available.

### CHARGERS AND CABLES

- **AD-54 BATTERY CHARGE ADAPTER**
  
  Used for regular charging of battery packs. Supplied with some versions. Charging time: 15 to 20 hrs.

- **BC-79 DESKTOP Charger + AD-28 CHARGE ADAPTER**
  
  Used for rapid charging of battery packs. Charging time: 1 to 3 hrs.

- **BM-113U/E AC ADAPTER**
  
  Connects to an AC outlet for use with the AD-54. Supplied with some versions.

- **CP-13 CIGARETTE LIGHTER CABLE**
  
  Connects to a ship’s or vehicle’s cigarette lighter socket (12 V only) for use with the BC-79.

### BATTERY PACKS

<table>
<thead>
<tr>
<th>BATTERY PACK</th>
<th>VOLTAGE/CAPACITY</th>
<th>OUTPUT POWER</th>
<th>HEIGHT</th>
</tr>
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<tbody>
<tr>
<td>BP-130A</td>
<td>Battery case for 6 x AA(R6) cells</td>
<td>2.5 W</td>
<td>50 mm</td>
</tr>
<tr>
<td>BP-157A</td>
<td>7.2 V/900 mAh</td>
<td>2.5 W</td>
<td>50 mm</td>
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<td>BP-160</td>
<td>7.2 V/700 mAh</td>
<td>2.5 W</td>
<td>50 mm</td>
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<td>BP-174</td>
<td>12 V/600 mAh</td>
<td>6 W</td>
<td>78.2 mm</td>
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</table>

*Output power differs depending on version.

### OTHERS

- **HM-9 speaker-microphone**
- **HM-46 speaker-microphone**
- **HM-54 speaker-microphone**
- **HS-51 headset**
Count on us!