



INSTRUCTION MANUAL

VHF MARINE TRANSCEIVERS

IC-M85
IC-M85E

This device complies with Part 15 of the FCC Rules. Operation is subject to the condition that this device does not cause harmful interference.

Icom Inc.

Thank you for choosing this Icom product.
This product is designed and built with Icom's state of the art technology and craftsmanship. With proper care, this product should provide you with years of trouble-free operation.

IMPORTANT

READ ALL INSTRUCTIONS carefully and completely before using the transceiver.

SAVE THIS INSTRUCTION MANUAL — This instruction manual contains important operating instructions for the IC-M85 and IC-M85E.

EXPLICIT DEFINITIONS

WORD	DEFINITION
⚠ DANGER!	Personal death, serious injury or an explosion may occur.
⚠ WARNING!	Personal injury, fire hazard or electric shock may occur.
CAUTION	Equipment damage may occur.
NOTE	If disregarded, inconvenience only. No risk of personal injury, fire or electric shock.

IN CASE OF EMERGENCY

If your vessel requires assistance, contact other vessels and the Coast Guard by sending a Distress call on Channel 16.

USING CHANNEL 16

DISTRESS CALL PROCEDURE

1. "MAYDAY MAYDAY MAYDAY."
2. "THIS IS" (name of vessel).
3. Say your call sign or other description of the vessel (AND 9 digit DSC ID if you have one).
4. "LOCATED AT" (your position).
5. State the nature of the distress and assistance required.
6. Give any other information which might facilitate the rescue.

PRECAUTIONS

⚠ **DANGER! NEVER** short the terminals of the battery pack. Shorting may occur if the terminals touch metal objects such as a key, so be careful when placing the battery packs (or the transceiver) in bags, and so on. Carry them so that shorting cannot occur with metal objects. Shorting may damage not only the battery pack, but also the transceiver.

⚠ **DANGER! NEVER** use or charge Icom battery packs with non-Icom transceivers or non-Icom chargers. Only Icom battery packs are tested and approved for use with Icom transceivers or charged with Icom chargers. Using third-party or counterfeit battery packs or chargers may cause smoke, fire, or cause the battery to burst.

⚠ **DANGER! NEVER** operate the transceiver near unshielded electrical blasting caps or in an explosive atmosphere.

⚠ **WARNING! NEVER** hold the transceiver so that the antenna is very close to, or touching exposed parts of the body, especially the face or eyes, while transmitting. The transceiver will perform best if the microphone is 5 to 10 cm (2 to 4 inches) away from the lips and the transceiver is vertical.

⚠ **WARNING! NEVER** operate the transceiver with a headset or other audio accessories at high volume levels. The continuous high volume operation may cause a ringing in your ears. If you experience the ringing, reduce the volume level or discontinue use.

CAUTION: DO NOT use harsh solvents such as Benzine or alcohol when cleaning. This could damage the equipment surfaces. If the surface becomes dusty or dirty, wipe it clean with a soft, dry cloth.

CAUTION: DO NOT place or leave the transceiver in excessively dusty environments. This could damage the transceiver.

CAUTION: DO NOT expose the transceiver to heavy rain, and never immerse it in water. The transceiver meets IP67 requirements for dust-protection and splash resistance. However, once the transceiver has been dropped, dust protection and splash resistance cannot be guaranteed due to the fact that the transceiver may be cracked, or the waterproof seal damaged, and so on.

DO NOT place or leave the transceiver in direct sunlight or in areas with temperatures below -30°C (-22°F) or above $+60^{\circ}\text{C}$ ($+140^{\circ}\text{F}$).

Keep the transceiver in a secure place to prevent use by unauthorized persons.

FCC caution: Changes or modifications to this transceiver, not expressly approved by Icom Inc., could void your authority to operate this transceiver under FCC regulations. (USA only)

Icom is not responsible for the destruction, damage to, or performance of any Icom or non-Icom equipment, if the malfunction is because of:

- Force majeure, including, but not limited to, fires, earthquakes, storms, floods, lightning, other natural disasters, disturbances, riots, war, or radioactive contamination.
- The use of Icom transceivers with any equipment that is not manufactured or approved by Icom.

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All other products or brands are registered trademarks or trademarks of their respective holders.

PRÉCAUTIONS

⚠ **AVERTISSEMENT! NE JAMAIS** court-circuiter les bornes du bloc-batterie. Un court-circuit peut se produire si les bornes touchent des objets métalliques, tels que des clés, faites donc attention lorsque vous rangez des blocs-batteries (ou l'émetteur-récepteur) dans des sacs, etc. Transportez-les de telle sorte que des courts-circuits ne peuvent se produire avec des objets métalliques. Car cela peut endommager le bloc-batterie ainsi que l'émetteur-récepteur.

Utilisez et chargez uniquement les packs batterie Icom spécifiés avec les terminaux Icom ou les chargeurs Icom. Seuls les packs batterie Icom sont testés et homologués pour une utilisation avec les terminaux Icom ou être chargés avec les chargeurs Icom. L'utilisation de packs batterie ou de chargeurs tiers ou de contrefaçon peut être à l'origine de fumées, d'incendie ou faire éclater la batterie.

⚠ **AVERTISSEMENT! NE JAMAIS** tenir le terminal de communication avec l'antenne placée à proximité immédiate ou en contact avec des parties du corps exposées, en particulier le visage ou les yeux, lors des transmissions. Les performances de la radio sont optimales quand le microphone est tenu entre 5 et 10 cm de la bouche de l'utilisateur et quand l'appareil est vertical.

⚠ **AVERTISSEMENT! NE JAMAIS** utiliser l'émetteur-récepteur avec un casque ou tout autre accessoire audio à un niveau sonore élevé. L'utilisation continue à un niveau sonore élevé peut provoquer un bourdonnement dans vos oreilles.

NE PAS utiliser l'émetteur-récepteur à proximité de détonateurs électriques non blindés ou dans une atmosphère explosive.

NE PAS utiliser de dissolvants agressifs tels que du Benzène ou de l'alcool lors du nettoyage, car ils endommageraient les surfaces de l'émetteur-récepteur. Si l'émetteur-récepteur est poussiéreux ou sale, nettoyez-le avec un tissu doux et sec.

NE PAS placer l'émetteur-récepteur dans des environnements excessivement poussiéreux. Cela pourrait endommager l'émetteur-récepteur.

CONSERVEZ l'émetteur-récepteur à l'abri des fortes pluies et ne le plongez jamais dans l'eau. Cet émetteur-récepteur répond aux exigences de la norme IP57 en matière de protection contre la poussière et de résistance aux éclaboussures. Cependant, en cas de chute de l'émetteur-récepteur, la protection contre la poussière et la résistance aux éclaboussures ne peuvent plus être garanties, car le boîtier risque d'être fissuré ou le joint d'étanchéité endommagé, etc.

NE PAS placer ou laisser l'émetteur-récepteur en plein soleil ou dans un environnement soumis à des températures inférieures à -10 °C ou supérieures à +60 °C.

Placez l'émetteur-récepteur dans un lieu sûr pour éviter toute utilisation par des personnes non autorisées.

RECOMMENDATION

CLEAN THE TRANSCEIVER THOROUGHLY IN A BOWL OF FRESH WATER after exposure to saltwater, and dry it before operating. Otherwise, the transceiver's keys, switches, and controllers may become unusable, due to salt crystallization, and/or the charging terminals of the battery pack may corrode.

NOTE: If the transceiver's waterproof protection appears defective, carefully clean it with a soft, damp (fresh water) cloth, then dry it before operating. The transceiver may lose its waterproof protection if the case, jack cap, or connector cover is cracked or broken, or the transceiver has been dropped. Contact your Icom distributor or your dealer for advice.

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◇ **Priorities**

- Read all rules and regulations pertaining to call priorities, and keep an up-to-date copy handy. Safety and distress calls take priority over all others.
- You must monitor Channel 16 when you are not operating on another channel.
- False or fraudulent distress calls are prohibited under law.

◇ **Privacy**

- Information overheard, but not intended for you, cannot lawfully be used in any way.
- Indecent or profane language is prohibited.

◇ **Radio licenses**

(1) SHIP STATION LICENSE

You may require a current radio station license before using the transceiver. It is unlawful to operate a ship station which is not licensed, but required to be.

If required, contact your dealer or the appropriate government agency for a Ship-Radiotelephone license application. This government-issued license states 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.

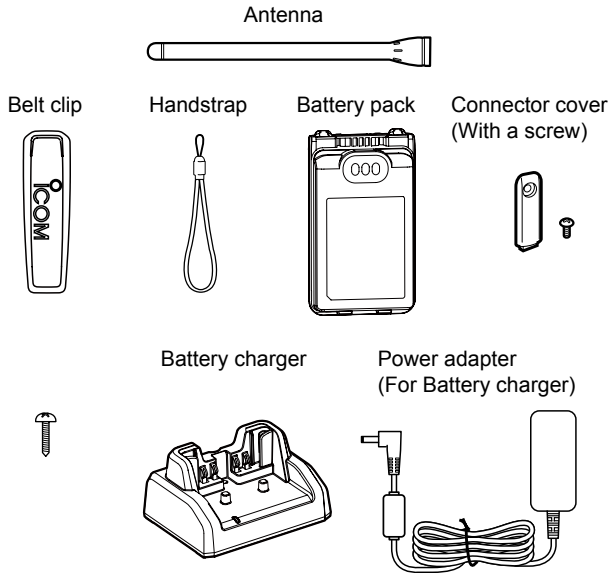
If required, the Restricted Radiotelephone Operator Permit must be posted or kept with the operator. If required, only a licensed radio operator may operate a transceiver.

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 only required to be on hand for vessels in which a radio telephone is compulsory. However, even if you are not required to have these on hand it is your responsibility to be thoroughly acquainted with all pertinent rules and regulations.

NOTE: Even though the transceiver is capable of operation on VHF marine channels 3, 21, 23, 61, 64, 81, 82 and 83, according to FCC regulations these simplex channels cannot be lawfully used by the general population in USA waters.

■ Supplied accessories



NOTE:

- Some accessories are not supplied, or the shape is different, depending on the transceiver version.
- Confirm both battery sliding locks are locked in place, when attaching the battery pack or the battery case to the transceiver. Both sliding locks make a 'click' sound when locked.
- Before using the transceiver for the first time, the battery pack must be fully charged for optimum life and operation. See Section 4 for battery charging.

■ Attaching accessories

◇ Flexible antenna

Connect the supplied flexible antenna to the antenna connector.



CAUTION:

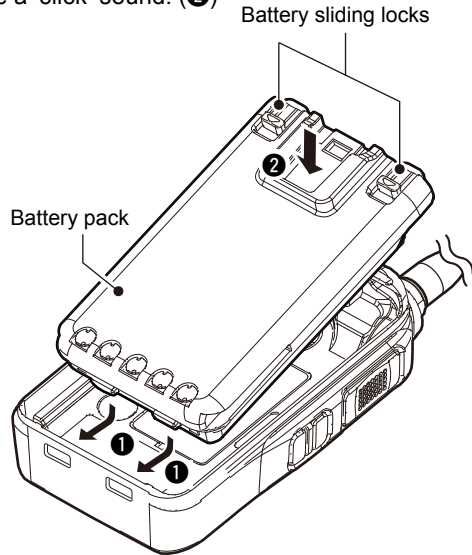
- **DO NOT** carry the transceiver by holding only the antenna.
- **DO NOT** connect an antenna other than those listed in the INSTRUCTIONS.
- Transmitting without an antenna may damage the transceiver.

2 ACCESSORIES

◇ Battery pack

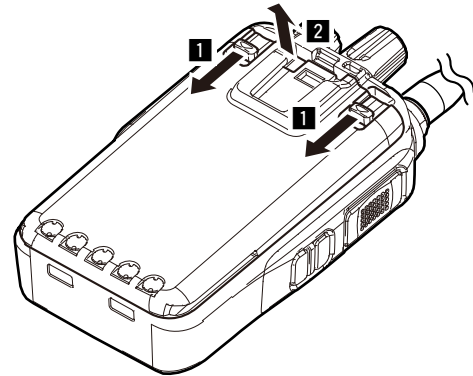
To attach:

1. Slide the battery pack in the direction of the arrow. (1)
2. Push the battery pack until the battery sliding locks make a 'click' sound. (2)



To detach:

1. Push both battery sliding locks in the direction of the arrow. (1)
2. Push the battery pack until the battery sliding locks make a 'click' sound. (2)



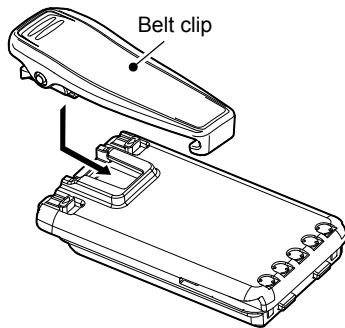
CAUTION: DO NOT attach or detach the battery pack when the transceiver is wet or soiled. This may result in water or dust getting into the transceiver/ battery pack and may damage the transceiver.

NOTE: Keep the battery pack terminals clean. It's a good idea to occasionally clean them.

◇ Belt clip

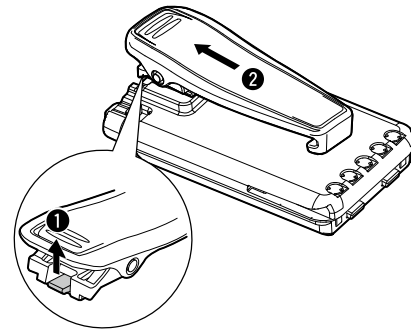
To attach:

1. Remove the battery pack from the transceiver, if it is attached.
2. Slide the belt clip in the direction of the arrow until the belt clip is locked and makes a 'click' sound.

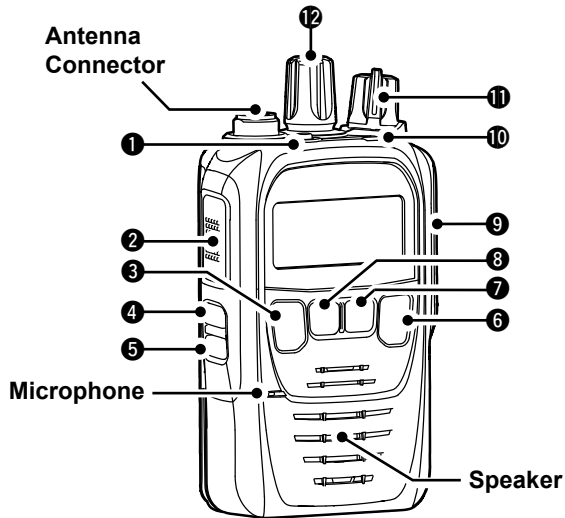


To detach:

Lift the tab up (1), and slide the belt clip in the direction of the arrow (2).



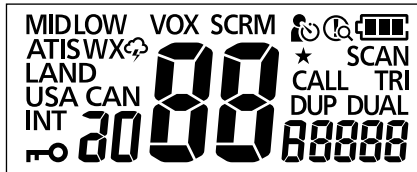
■ Front, top and side panels



- 1 LOCK KEY [↔]**
Hold down for 1 second to lock or unlock the keypad.
- 2 PTT SWITCH [PTT]**
Hold down to transmit, release to receive.
- 3 CHANNEL 16/CALL CHANNEL KEY [16/C]**
 - Push to select Channel 16.
 - Hold down for 1 second to select the Call channel.
- 4 SQUELCH ADJUSTMENT KEY [SQL]**
Push to enter the Squelch adjustment mode.

- 5 TRANSMIT POWER KEY [H/L]**
Push to enter the Squelch adjustment mode.
 - Push to set the power level to high, middle, or low.
 - ① Some channels are set to only low power.
- 6 FAVORITE CHANNEL KEY [FAV]**
 - Push to select a Favorite channel.
 - Hold down for 1 second to set or clear the selected channel as a Favorite channel.
- 7 SCAN/DUALWATCH KEY [SCAN]/[DUAL]**
 - Push to start or stop a scan.
 - Hold down for 1 second to start or stop the Dualwatch*.
 - ① The key assignment may differ, depending on the presetting.
 - *Tri-watch starts, depending on the Set mode settings.
- 8 WEATHER CHANNEL/ CHANNEL GROUP KEY [CH/WX]/[U//C/L]**
 - Push to enter or exit the Weather Channel Selection mode.
 - Hold down for 1 second to change the channel group.
- 9 MULTI-CONNECTOR**
Connects to an optional speaker microphone or headset.
- 10 STATUS INDICATOR**
 - Lights red while transmitting.
 - Lights green while receiving a signal, or when the squelch is open.
- 11 VOLUME/POWER SWITCH [VOL]**
 - Rotate to turn the transceiver ON or OFF.
 - Rotate to adjust the audio output level.
- 12 TUNING DIAL [DIAL]**
 - Rotate to select a channel.

■ Function display



TRANSMIT POWER INDICATOR "MID"/"LOW"

Displayed when low power or middle power is selected.

VOX INDICATOR "VOX"

Displayed when the VOX function is ON.

VOICE SCRAMBLER INDICATOR "SCRM"

Displayed when the Voice scrambler is ON.

MAN DOWN ICON "MAN DOWN"

Displayed when the Man Down function is ON.

LONE WORKER ICON "LONE WORKER"

Displayed when the Lone Worker function is ON.

BATTERY INDICATOR "BATTERY"

Displays the battery status.

Battery status	Full	Mid	Charging required	Battery exhausted
Indication				

NARROW ICON "★"

Displayed when the narrow channel spacing is selected in the land channel group.

SCAN INDICATOR "SCAN"

Blinks while scanning.

CALL CHANNEL INDICATOR "CALL"

Displayed when the call channel is selected.

DUALWATCH/TRI-WATCH INDICATOR "DUAL"/"TRI"

Displayed during Dualwatch or Tri-watch.

DUPLEX INDICATOR "DUP"

Displayed when a Duplex channel is selected.

LOCK ICON "LOCK"

Displayed when the Lock function is ON.

CHANNEL GROUP INDICATOR "INT"/"USA"/"CAN"/"LAND"/"ATIS"

Displays the selected channel group.

WX ICON (For only the USA version) "WX"

Displayed when the Weather channel is selected.

■ Battery caution

Misuse of Li-ion batteries may result in the following hazards: smoke, fire, or the battery may rupture. Misuse can also cause damage to the battery or degradation of battery performance.

⚠ **DANGER! NEVER** solder the battery terminals, or **NEVER** modify the battery pack. This may cause heat generation, and the battery may burst, emit smoke or catch fire.

⚠ **DANGER! NEVER** place or leave battery packs in areas with temperatures above +60°C (+140°F). High temperature buildup in the battery cells, such as could occur near fires or stoves, inside a sun-heated vehicle, or in direct sunlight for long periods of time may cause the battery cells to rupture or catch fire. Excessive temperatures may also degrade the battery pack's performance or shorten the battery cell's life.

⚠ **DANGER! NEVER** strike or otherwise impact the battery pack. Do not use the battery pack if it has been severely impacted or dropped, or if the pack has been subjected to heavy pressure. Battery pack damage may not be visible on the outside of the case. Even if the surface of the battery does not show cracks or any other damage, the cells inside the battery may rupture or catch fire.

⚠ **DANGER! NEVER** expose the battery pack to rain, snow, seawater, or any other liquids. Do not charge or use a wet pack. If the pack gets wet, be sure to wipe it dry before using.

⚠ **DANGER! NEVER** place or leave battery packs near fire. Fire or heat may cause them to rupture or explode. Dispose of used battery packs in accordance with local regulations.

⚠ **DANGER! NEVER** let fluid from inside the battery get in your eyes. This can cause blindness. Rinse your eyes with clean water, without rubbing them, and immediately go to a doctor.

⚠ **WARNING! NEVER** put the battery pack in a microwave oven, high-pressure container, or in an induction heating cooker. This could cause a fire, overheating, or cause the battery cells to rupture.

⚠ **WARNING! NEVER** use the battery pack if it emits an abnormal odor, heats up, or is discolored or deformed. If any of these conditions occur, contact your Icom dealer or distributor.

⚠ **WARNING! NEVER** let fluid from inside the battery cells come in contact with your body. If it does, immediately wash with clean water.

CAUTION: DO NOT use the battery pack out of the specified temperature range for the transceiver (−30°C ~ +60°C (−22°F ~ +140°F)) and the battery itself (−20°C ~ +60°C (−4°F ~ +140°F)). Using the battery out of its specified temperature range will reduce its performance and battery cell's life. Please note that the specified temperature range of the battery may exceed that of the transceiver. In such cases, the transceiver may not work properly because it is out of its operating temperature range.

■ Battery caution (continued)

CAUTION: Shorter battery life could occur if the battery is left fully charged, completely discharged, or in an excessive temperature environment (above +50°C (+122°F)) for an extended period of time. If the battery pack must be left unused for a long time, it must be detached from the transceiver after discharging. You may use the battery pack until the remaining capacity is about half, then keep it safely in a cool and dry place at the following temperature range:
–20°C ~ +50°C (–4°F ~ +122°F) (within a month)
–20°C ~ +40°C (–4°F ~ +104°F) (within three months)
–20°C ~ +20°C (–4°F ~ +68°F) (within a year)

BE SURE to replace the battery pack with a new one approximately five years after manufacturing, even if it still holds a charge. The inside battery material will become weak after a period of time, even with little use. The estimated number of times you can charge the battery is between 300 and 500. Even when the battery appears to be fully charged, the operating time of the transceiver may become short when:

- Approximately 5 years have passed since the battery was manufactured.
- The battery has been repeatedly charged.

■ Charging caution

△ **DANGER! NEVER** charge the battery pack in areas with extremely high temperatures, such as near fires or stoves, inside a sun-heated vehicle, or in direct sunlight. In such environments, the safety/protection circuit in the battery will activate, causing the battery to stop charging.

△ **WARNING! NEVER** charge the transceiver during a lightning storm. It may result in an electric shock, cause a fire or damage the transceiver. Always disconnect the power adapter before a storm.

△ **WARNING! NEVER** charge or leave the battery in the battery charger beyond the specified time for charging. If the battery is not completely charged by the specified time, stop charging and remove the battery from the battery charger. Continuing to charge the battery beyond the specified time limit may cause a fire, overheating, or the battery may rupture.

△ **WARNING! NEVER** insert the transceiver (battery attached to the transceiver) into the charger if it is wet or soiled. This could corrode the battery charger terminals or damage the charger. The charger is not waterproof.

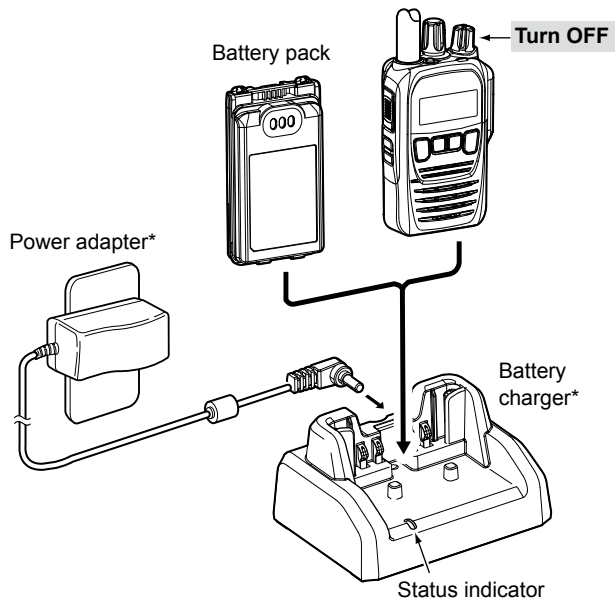
CAUTION: NEVER charge the battery outside of the specified temperature range: BC-214 (16°C ~ 40°C (60.8°F ~ 104°F)). Otherwise, the charging time will be longer, but the battery will not reach a full charge. While charging, at a point after the temperature goes out of the specified range, the charging will automatically stop.

4 BATTERY CHARGING

■ Battery charger

◇ Supplied battery charger

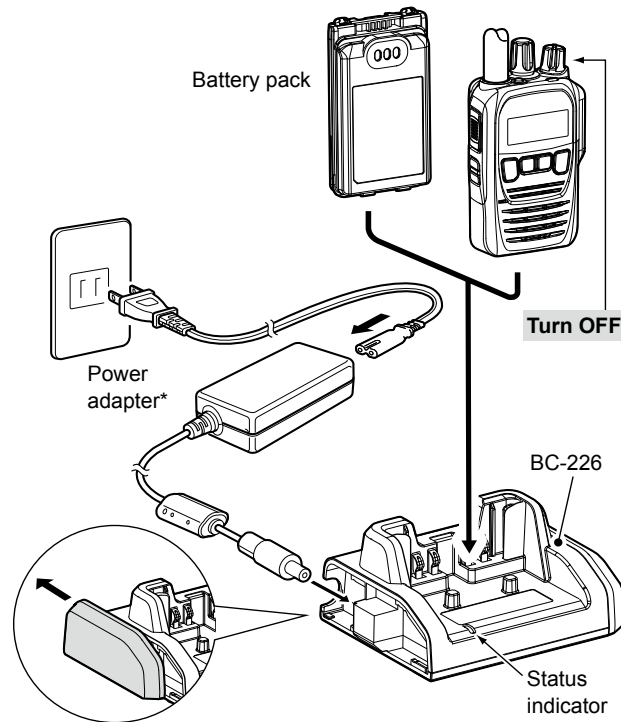
Charging time: approximately 3 hours



* May not be supplied, or the shape may be different, depending on the version.

◇ Optional BC-226 DESKTOP CHARGER

Charging time: approximately 3 hours

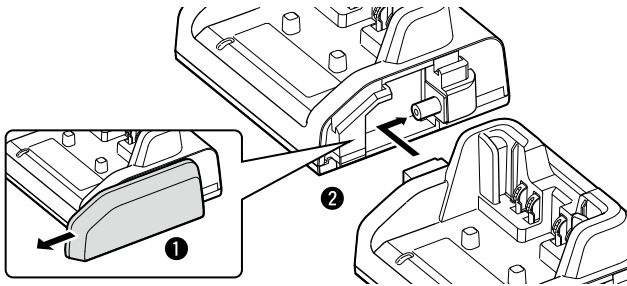


① To connect the power adapter to the charger, remove the charger's left cover.

○ **Connecting BC-226 together**

You can connect up to 6 BC-226 together.

1. Remove the charger's right cover. (❶)
2. Snap the DC power plug to the another charger's DC power jack. (❷)



WARNING: DO NOT connect more than 7 chargers together. It may result in an electric shock, cause a fire, overheating, or damage chargers.

◇ **Information**

○ **Status indicator information**

Light color	Status
Orange	Charging
Green	Charging is completed.
Blinks orange and green	Charging failed. It may have some problems.

NOTE:

- The transceiver **MUST** be turned OFF while charging. Otherwise:
 - The battery will not be charged correctly.
 - The battery life may be shortened.
- Do not transmit while charging. When you need to transmit, remove the transceiver from the charger, and then turn ON the power.
- If the battery pack does not properly charge when it is attached to the transceiver, remove it from the transceiver and insert only the battery pack into the charger.

■ Selecting a channel

◇ Channel 16

Channel 16 (Distress channel) is used for establishing initial contact with another station and for emergency communications.

Channel 16 is automatically monitored during both dualwatch and tri-watch. While standing by, you must monitor Channel 16.

- Push [16/C] to select Channel 16.
- Push [DIAL] to return to the condition before selecting Channel 16, or rotate {DIAL} to select the operating channel



◇ Call channel

Each regular channel group has a separate call channel. In addition, each call channel is monitored during tri-watch. The call channels can be reprogrammed and are used to store your most often used channels in each channel group for quick recall.

- Push [16/C] for 2 sec. to select the call channel in the selected channel group.



◇ Selecting channel group

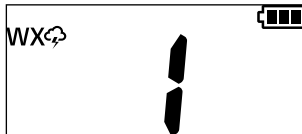
Choose the appropriate channel group for your operating area, and then select a desired channel.

- Hold down [CH/WX•U/I/C/L] for 2 seconds to select the channel group.

◇ Weather channels

For the USA version, the transceiver has 10 preset Weather channels. You can use these channels to monitor broadcasts from the National Oceanographic and Atmospheric Administration (NOAA). The transceiver automatically detects a Weather alert tone on the selected weather channel, or while scanning.

1. Hold down [CH/WX•U/I/C/L] for 2 seconds to select the channel group.
2. Rotate [DIAL] to select a Weather channel.



5 BASIC OPERATION

■ Receiving and transmitting

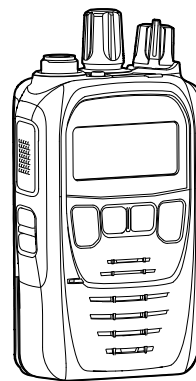
CAUTION: Transmitting without an antenna will damage the transceiver.

1. Rotate [VOL] clockwise to turn ON the power.
2. Adjust the squelch to mute any audio noise if necessary.
3. Rotate [VOL] to set the volume level.
4. Rotate [DIAL] to select a channel.
 - While receiving a signal, the status indicator lights green, and audio is heard from the speaker.
 - ① Further adjustment of [VOL] may be necessary at this point.
 - ① Push [H/L] to select the output power if necessary.
“LOW” is displayed when low power is selected, “MID” is displayed when middle power is selected, no indication is displayed when high power is selected.
Choose Low power to conserve the battery power, choose High power for long range communications.
 - ① Some channels are restricted to Low power only.
5. Hold down [PTT] to transmit, then speak into the microphone.
 - The status indicator lights red while transmitting.

IMPORTANT: To maximize the readability of your transmitted signal at a receiver station, pause a second after pushing [PTT], and then hold the microphone 5 to 10 cm from your mouth and speak at your normal voice level.

NOTE: The transceiver has a Power Save function to conserve the battery power and it cannot be turned OFF. The Power Save function automatically activates when no signal is received for 5 seconds.

For USA version: To prevent accidental prolonged transmission, the transceiver has a time-out timer function. This timer cuts the transmission OFF after 5 minutes of continuous transmission.



■ Adjusting the squelch level

The transceiver has a squelch circuitry. In order to receive the signals properly, as well as for the efficient scan, the squelch must be adjusted to the proper level.

1. Push [SQL].
2. Rotate [DIAL] to adjust the squelch level.
 - ① When no key is pushed for 5 seconds, the transceiver returns to the normal condition.
3. Push [SQL] again to return to the normal condition.

■ Automatic backlight

This function is convenient for nighttime operation. The automatic backlight can be activated in the Set mode.

- Push any key except [PTT] to turn ON the backlight.
- ① The backlight is automatically turned OFF after 5 seconds of inactivity.

■ Setting the Call channel

The Call channel key is used to select Channel 9 by default, however, you can set your most often-used channels in each channel group for quick recall.

1. Hold down [CH/WX•U/I/C/L] for 1 second several times to select the desired channel group (USA, INT, CAN) to be used.
2. Hold down [16/C] for 1 second to select the Call channel.
 - "CALL" and Call channel number appear.
3. Hold down [16/C] again for 3 seconds (until a long beep changes to 2 short beeps) to enter Call channel programming condition.
 - Call channel number to be programmed flashes.
4. Rotate [DIAL] to select the desired channel.
5. Push [16/C] to program the displayed channel as the Call channel.
 - The Call channel number stops blinking.

■ Using the Set mode

You can set seldom changed settings in the Set mode. You can customize the transceiver settings to suit your preference and operating style.

1. Turn OFF the power.
2. While holding down [SQL], turn ON the power to enter the Set mode.
 - the “beep” item is displayed.
3. Push [SQL] to select the item.
4. Rotate [DIAL] to select the option.
5. Push [16/C] to exit the Set mode.

■ Set mode items

Beep [bBEEP]		CH Display [CH_I]	
WX Alert [ALrt]		CH Display [CH_U]	
Scan Type [Prio]		CH Display [CH_C]	
Scan Timer [S_ti]		CH Display [CH_L]	
Auto Scan [Auto]		SCRM Code [codE]	
Dual/Tri-watch [dt]		VOX Gain [gAln]	
SQL Key Action [SqLS]		VOX Delay [dELA]	
Backlight [A_bL]		AquaQuake Action [Aq_A]	
Contrast [Lcdc]		Man Down Alarm [do_A]	
Power Save [P_SA]			

■ LAND (PMR) Channel Group

A max. of 22 free LAND mobile channels (allocated 146.000 to 174.000 MHz) can be programmed into the LAND channel group for simple communication with PMR transceivers in the VHF band.

Moreover, any of the marine channels in the INT and USA channel groups can be programmed.

The default setting of the LAND channel group is the same as that of the INT channel group. Ask your local Icom dealer for the LAND channel group setting and PMR frequency programming details.

- Hold down [CH/WX•U/I/C/L] for 2 seconds to select the channel group.
- “LAND” appears when LAND (PMR) channel group is selected.
- Rotate [DIAL] to select a channel.
- “DUP” appears for duplex channels.

■ About CE and DOC



Versions of the IC-M85E which have the “CE” symbol on the product, comply with the essential requirements of the Radio Equipment Directive, 2014/53/EU, and the restriction of the use of certain hazardous

substances in electrical and electronic equipment Directive, 2011/65/EU.

■ Disposal



The crossed-out wheeled-bin symbol on your product, literature, or packaging reminds you that in the European Union, all electrical and electronic products, batteries, and accumulators (rechargeable batteries) must be taken to

designated collection locations at the end of their working life. Do not dispose of these products as unsorted municipal waste. Dispose of them according to the laws in your area.

■ Country code list

• ISO 3166-1

	Country	Codes		Country	Codes
1	Austria	AT	18	Liechtenstein	LI
2	Belgium	BE	19	Lithuania	LT
3	Bulgaria	BG	20	Luxembourg	LU
4	Croatia	HR	21	Malta	MT
5	Czech Republic	CZ	22	Netherlands	NL
6	Cyprus	CY	23	Norway	NO
7	Denmark	DK	24	Poland	PL
8	Estonia	EE	25	Portugal	PT
9	Finland	FI	26	Romania	RO
10	France	FR	27	Slovakia	SK
11	Germany	DE	28	Slovenia	SI
12	Greece	GR	29	Spain	ES
13	Hungary	HU	30	Sweden	SE
14	Iceland	IS	31	Switzerland	CH
15	Ireland	IE	32	Turkey	TR
16	Italy	IT	33	United Kingdom	GB
17	Latvia	LV			

■ FCC information

This equipment has been tested and found to comply with the limits for a Class A digital device, pursuant to part 15 of the FCC Rules. These limits are designed to provide reasonable protection against harmful interference when the equipment is operated in a commercial environment. This equipment generates, uses, and can radiate radio frequency energy and, if not installed and used in accordance with the instruction manual, may cause harmful interference to radio communications. Operation of this equipment in a residential area is likely to cause harmful interference in which case the user will be required to correct the interference at his own expense.

■ Information FCC

Cet équipement a été testé et reconnu conforme aux limites fixées pour un appareil numérique de classe A, conformément au point 15 de la réglementation FCC. Ces limites sont définies de façon à fournir une protection raisonnable contre le brouillage préjudiciable lorsque cet appareil est utilisé dans un environnement commercial. Cet équipement génère, utilise et peut émettre un rayonnement de fréquence radio. S'il n'a pas été installé conformément aux instructions, il peut par ailleurs créer des interférences perturbant les communications radio. L'utilisation de cet appareil dans une zone résidentielle peut provoquer un brouillage préjudiciable, auquel cas l'utilisateur sera tenu de corriger la situation à ses frais.

■ Safety training information



Your Icom radio generates RF electromagnetic energy while transmitting. This radio is designed for and classified as for “Occupational Use Only.” This means it must be used only during the course of employment by individuals aware of the hazards, and the ways to minimize such hazards. This radio is NOT intended for use by the “General Population” in an uncontrolled environment. This radio has been tested and complies with the FCC and IC RF exposure limits for “Occupational Use Only”. In addition, your Icom radio complies with the following Standards and Guidelines with regard to RF energy and electromagnetic energy levels and evaluation of such levels for exposure to humans:

- FCC KDB Publication 447498 D03, Evaluating Compliance with FCC Guidelines for Human Exposure to Radio Frequency Electromagnetic Fields.
- American National Standards Institute (C95.1-1992), IEEE Standard for Safety Levels with Respect to Human Exposure to Radio Frequency Electromagnetic Fields, 3 kHz to 300 GHz.
- American National Standards Institute (C95.3-1992), IEEE Recommended Practice for the Measurement of Potentially Hazardous Electromagnetic Fields— RF and Microwave.
- The accessories listed on page i are authorized for use with this product. Use of accessories other than those specified may result in RF exposure levels exceeding the FCC requirements for wireless RF exposure.
- Health Canada Safety Code 6 - Limits of Human Exposure to Electromagnetic Energy in the Frequency Range from 3 kHz to 300 GHz.



To ensure that your exposure to RF electromagnetic energy is within the FCC allowable limits for occupational use, always adhere to the following guidelines:

- **DO NOT** operate the radio without a proper antenna attached, as this may damage the radio and may also cause you to exceed FCC RF exposure limits. A proper antenna is the antenna supplied with this radio by the manufacturer or an antenna specifically authorized by the manufacturer for use with this radio.
- **DO NOT** transmit for more than 50% of the total radio use time (“50% duty cycle”). Transmitting more than 50% of the time can cause FCC RF exposure compliance requirements to be exceeded. The radio is transmitting when “TX” is displayed on the function display. You can cause the radio to transmit by pushing the [PTT] switch.
- **ALWAYS keep** the antenna at least 2.5 cm (1 inch) away from the body when transmitting and only use the Icom belt-clips which are listed on page 12 when attaching the radio to your belt, or other place, to ensure FCC and IC RF exposure compliance requirements are not exceeded.

The information listed above provides the user with the information needed to make him or her aware of RF exposure, and what to do to assure that this radio operates within the FCC RF exposure limits of this radio.

Electromagnetic Interference/Compatibility

During transmissions, your Icom radio generates RF energy that can possibly cause interference with other devices or systems. To avoid such interference, turn off the radio in areas where signs are posted to do so. **DO NOT** operate the transmitter in areas that are sensitive to electromagnetic radiation such as hospitals and blasting sites.

Occupational/Controlled Use

The radio transmitter is used in situations in which persons are exposed as consequence of their employment provided those persons are fully aware of the potential for exposure and can exercise control over their exposure.

■ Infomation en matière de sécurité



Votre radio Icom produit une énergie électromagnétique de radiofréquences (RF), en mode de transmission. Cette radio est conçue pour un «usage professionnel seulement» et classée comme tel, ce qui signifie qu'elle doit être utilisée uniquement dans le cadre d'un travail par des personnes

conscientes des dangers et des mesures visant à minimiser ces dangers.

Elle N'EST PAS conçue pour une «utilisation grand public », dans un environnement non contrôlé. Cet appareil a été évalué et jugé conforme, aux limites d'exposition aux RF de la FCC et d'IC, pour une «utilisation grand public». En outre, votre radio Icom satisfait les normes et directives qui suivent en matière de niveaux d'énergie et d'énergie électromagnétique de RF et d'évaluation de tels niveaux en ce qui concerne l'exposition humaine:

- Publication 447498 D03 de la FCC KDB, «Evaluating Compliance with FCC Guidelines for Human Exposure to Radio Frequency Electromagnetic Fields».
- Norme de l'American National Standards Institute (ANSI): IEEE C95.1-1992 sur les niveaux de sécurité compatibles avec l'exposition humaine aux champs électromagnétiques de radiofréquences (3 kHz à 300 GHz).
- Norme de l'ANSI: IEEE C95.3-1992 sur la méthode d'évaluation recommandée du champ magnétique potentiellement dangereux des radiofréquences et des micro-ondes.
- Les accessoires illustrés dans "Options" de la feuille d'instructions sont approuvés pour une utilisation avec ce produit. L'utilisation d'accessoires autres que ceux précisés peut entraîner des niveaux d'exposition aux RF supérieures aux limites établies par la FCC et d'IC en matière d'exposition aux RF sans fil.
- Le Code de sécurité 6 de Santé Canada - Les limites d'exposition humaine à l'énergie électromagnétique dans la gamme de fréquences de 3 kHz à 300 GHz.



Afin de vous assurer que votre exposition à une énergie électromagnétique de RF se situe dans les limites permises par la FCC pour une utilisation grand public, veuillez en tout temps respecter les directives suivantes :

- **NE PAS** faire fonctionner la radio sans qu'une antenne appropriée y soit fixée, car ceci risque d'endommager la radio et causer une exposition supérieure aux limites établies par la FCC. L'antenne appropriée est celle qui est fournie avec cette radio par le fabricant ou une antenne spécialement autorisée par le fabricant pour être utilisée avec cette radio.
- **NE PAS** émettre pendant plus de 50% du temps total d'utilisation de l'appareil («50% du facteur d'utilisation»). Émettre pendant plus de 50% du temps total d'utilisation peut causer une exposition aux RF supérieure aux limites établies par la FCC. La radio est en train d'émettre lorsque le témoin du "TX" s'affiche sur l'écran ACL. La radio émettra si vous appuyez sur le bouton du microphone.
- **TOUJOURS** tenir l'antenne éloignée d'au moins 2,5 cm de votre corps au moment d'émettre et utiliser uniquement l'attache pour ceinture Icom illustrée à la p. 12, lorsque vous attachez la radio à votre ceinture, ou à autre chose, de façon à vous assurer de ne pas provoquer une exposition aux RF supérieure aux limites fixées par la FCC. Pour offrir à vos interlocuteurs la meilleure qualité de transmission possible, tenez l'antenne à au moins 5 cm de votre bouche et légèrement de côté.

Les renseignements ci-dessus fournissent à l'utilisateur toute l'information nécessaire sur l'exposition aux RF et sur ce qu'il faut faire pour assurer que cette radio fonctionne en respectant les limites d'exposition aux RF établies par la FCC.

Interférence électromagnétique et compatibilité

En mode de transmission, votre radio Icom produit de l'énergie de RF qui peut provoquer des interférences avec d'autres appareils ou systèmes. Pour éviter de telles interférences, mettez la radio hors tension dans les secteurs où une signalisation l'exige. **NE PAS** faire fonctionner l'émetteur dans des secteurs sensibles au rayonnement électromagnétique tels que les hôpitaux, les aéronefs et les sites de dynamitage.

Usage professionnel/contrôlé

Ce radio émetteur est utilisé dans des cas où des personnes sont exposées en raison de leur travail, pourvu qu'elles soient conscientes du risque d'exposition et qu'elles puissent exercer un contrôle sur cette exposition.

Count on us!

< Intended Country of Use >

- AT BE CY CZ DK EE
 FI FR DE GR HU IE
 IT LV LT LU MT NL
 PL PT SK SI ES SE
 GB IS LI NO CH BG
 RO TR HR