



PRECAUTIONS

VHF dPMR HANDHELD TRANSCEIVERS
IC-F3162D/IC-F3262D series
UHF dPMR HANDHELD TRANSCEIVERS
IC-F4162D/IC-F4262D series

Thank you for choosing this Icom product.

READ ALL PRECAUTIONS carefully and completely before using your transceiver:

- IC-F3162DT/IC-F3162DS/IC-F3262DT/IC-F3262DS VHF dPMR HANDHELD TRANSCEIVERS
- IC-F4162DT/IC-F4162DS/IC-F4262DT/IC-F4262DS UHF dPMR HANDHELD TRANSCEIVERS

PRECAUTIONS

◆ 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.

◆ Transceiver caution

⚠ **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** operate the transceiver near unshielded electrical blasting caps. This could cause an explosion and death.

⚠ **DANGER! NEVER** use and 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.

⚠ **WARNING! NEVER** operate with earphone, headphones or other audio accessories at high volume levels. If you experience a ringing in your ears, reduce the volume level or discontinue use.

⚠ **WARNING! NEVER** operate the transceiver while driving a vehicle. Safe driving requires your full attention—anything less could result in an accident.

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 carry the transceiver by holding the antenna.

CAUTION: DO NOT operate the transceiver unless the flexible antenna, battery pack, and jack cover are securely attached to the transceiver, and that the antenna and battery pack are dry before attachment. Exposing the inside of the transceiver to dust or water will result in serious damage to the transceiver.

DO NOT operate or place the transceiver in direct sunlight or in areas with temperatures below -25°C or above $+55^{\circ}\text{C}$.

CAUTION: DO NOT modify the transceiver. The specifications may change and then the transceiver may not comply with the requirements of required regulations. The transceiver warranty does not cover any problems caused by unauthorized modification.

BE CAREFUL! The transceiver will become hot when operating it continuously for long periods of time.

Even when the transceiver power is OFF, a slight current still flows in the circuits. Remove the battery pack from the transceiver when not using it for a long time. Otherwise, the installed battery pack will become exhausted, and will need to be recharged or replaced.

ALWAYS turn OFF the transceiver before connecting any external devices.

For only the IC-F3162D/IC-F4162D series transceivers:

KEEP the transceiver away from the heavy rain, and never immerse it in the water. The transceiver meets IP55* requirements for dust-protection and water jet resistance. However, once the transceiver has been dropped, dust-protection and water jet resistance cannot be guaranteed due to the fact that the transceiver may be cracked, or the waterproof seal damaged, etc.

*Only when the supplied battery pack, flexible antenna and connector cover are attached.

For only the IC-F3262D/IC-F4262D series transceivers:

BE CAREFUL! The transceiver meets IP67 requirements for dust-tight and waterproof protection. However, once the transceiver has been dropped, dust-tight and waterproof protection cannot be guaranteed because of possible damage to the transceiver case or the waterproof seal.

For only the IC-F4262D series transceivers:

The GPS receiver may not work if the transceiver transmits near the 510 MHz. This is made in the internal circuit and does not indicate a transceiver malfunction.

◆ Battery caution

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

⚠ **DANGER! NEVER** leave the battery pack in areas with temperatures above 60°C . High temperature buildup in the battery pack, such as could occur near fires or stoves, inside a sun heated car, or in direct sunlight for long periods of time may cause the battery pack to rupture or catch fire. Excessive temperatures may also degrade performance or shorten battery life.

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

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

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

⚠ **DANGER! NEVER** use the battery pack with a transceiver for which it is not specified. Never use a pack with any other equipment, or for any purpose that is not specified in the instruction manual.

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⚠ **DANGER! NEVER** let fluid from inside the battery get in your eyes. If it does, blindness can result. 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 pack 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 come in contact with your body. If it does, immediately wash with clean water.

CAUTION: DO NOT use the battery out of the specified temperature range for the transceiver ($-25^{\circ}\text{C} \sim +55^{\circ}\text{C}$) and the battery itself ($-20^{\circ}\text{C} \sim +60^{\circ}\text{C}$). Using the battery out of its specified temperature range will reduce the battery's performance and battery 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.

CAUTION: Shorter battery life could occur if the battery pack is left fully charged, completely discharged, or in an excessive temperature environment (above 50°C) 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:

- $-20^{\circ}\text{C} \sim +50^{\circ}\text{C}$ (within a month)
- $-20^{\circ}\text{C} \sim +40^{\circ}\text{C}$ (within three months)
- $-20^{\circ}\text{C} \sim +20^{\circ}\text{C}$ (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 pack 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 pack in the battery charger beyond the specified time for charging. If the battery pack is not completely charged by the specified time, stop charging and remove the battery pack from the battery charger. Continuing to charge the battery pack beyond the specified time limit may cause a fire, overheating, or the battery pack may rupture.

⚠ **WARNING! NEVER** insert the transceiver (the battery pack 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: DO NOT charge the battery outside of the specified temperature range: BC-160/BC-171 ($10^{\circ}\text{C} \sim 40^{\circ}\text{C}$). Icom recommends charging the battery at 20°C . The battery may heat up or rupture if charged out of the specified temperature range. Additionally, battery performance or battery life may be reduced.

RECOMMENDATION

For only the IC-F3262D/IC-F4262D series transceivers:

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.

ABOUT CE AND DOC

CE Hereby, Icom Inc. declares that the versions of IC-F3162DT, IC-F3162DS, IC-F3262DT, IC-F3262DS, IC-F4162DT, IC-F4162DS, IC-F4262DT, and IC-F4262DS 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. The full text of the EU declaration of conformity is available at the following internet address:
<http://www.icom.co.jp/world/support>

VOICE CODING TECHNOLOGY

The AMBE+2™ voice coding Technology embodied in this product is protected by intellectual property rights including patent rights, copyrights and trade secrets of Digital Voice Systems, Inc. This voice coding Technology is licensed solely for use within this Communications Equipment.

The user of this Technology is explicitly prohibited from attempting to extract, remove, decompile, reverse engineer, or disassemble the Object Code, or in any other way convert the Object Code into a human-readable form. U.S. Patent Nos. #8,595,002, #8,359,197, #8,315,860, #8,200,497, #7,970,606, and #6,912,495 B2.

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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