

# VHF DIGITAL TRANSCEIVER IC-F52D-UL UHF DIGITAL TRANSCEIVER IC-F62D-UL

Thank you for choosing this Icom product. **READ ALL INSTRUCTIONS** carefully and completely before using this product.

# IMPORTANT

This instruction sheet includes some functions that are usable only when they are preset by your dealer. The transceiver may have other functions and operations that are not described in this instruction sheet. Ask your dealer for preset function details.

# **EXPLICIT DEFINITIONS**

WORD	DEFINITION	
▲ DANGER!	Personal death, serious injury or an explosion may occur.	
<b>▲ WARNING!</b>	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.	

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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### Icom Inc.

1-1-32 Kamiminami, Hirano-ku, A7485W-1EX-2 Osaka 547-0003, Japan Jul. 2022

# 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 (C95.1-2019), IEEE Standard for Safety Levels with Respect to Human Exposure to Electric, Magnetic, and Electromagnetic Fields, 0 Hz to 300 GHz
- American National Standards Institute (C95.3-2021). IEEE Recommended Practice for Measurements and Computations of Electric, Magnetic, and Electromagnetic Fields with Respect to Human Exposure to Such Fields, 0 Hz to 300 GHz.
- The antennas, batteries, belt clips, speaker-microphone, and other accessories that are listed in "OPTIONS" on the this sheet, are authorized for use with this product. Use of accessories other than those specified may result in RF exposure levels exceeding the FCC and IC 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.

# PRECAUTIONS

 $\triangle$  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.

 $\triangle$  DANGER! NEVER use or charge lcom battery packs with non-lcom transceivers or non-lcom 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.

 ${\ensuremath{\bigtriangleup}}$  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.

A 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 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.

CAUTION: DO NOT carry the transceiver by holding the antenna

CAUTION: DO NOT operate unless the flexible antenna, battery pack are securely attached to the transceiver. Confirm that the antenna and battery pack are dry before attaching. Exposing the inside of the transceiver to dust or water can cause serious damage to the transceiver.

DO NOT place or leave the transceiver in direct sunlight or in places with temperatures below  $-20^\circ C~(-4^\circ F)$  or above +60°C (+140°F). The basic operations of the transceiver are guaranteed within the specified operating temperature range. However, the Liquid Crystal Display may not operate correctly, or show an indication in the case of long hours of operation, or after being placed in extremely cold

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 operate the transceiver if it becomes hot after continuously transmitting for long periods of time. This may damage the transceiver

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's case or the waterproof seal.

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.

MAKE SURE to turn OFF the transceiver power before connecting the supplied or optional equipment

Electromagnetic Interference/Compatibility

During transmissions, your loom 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, aircraft, and

Occupational/Controlled Use The radio transmitter is used in situations in which persons

are exposed as a consequence of their employment, provided those persons are fully aware of the potential for exposure and can exercise control over their exposure.

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

harmful interference to radio communications. Operation of this equipment in a residential area is likely to cause

CAUTION: Changes or modifications to this transceiver, not expressly approved by Icom Inc., could void

harmful interference in which case the user will be required to correct the interference at his own expense

your authority to operate this transceiver under FCC

This device complies with Part 15 of the ECC Rules

radio frequency energy and, if not installed and used in accordance with the instruction manual, may cause

## ♦ 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.

 $\triangle$  **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.

 $\triangle$  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.

 $\triangle$  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

▲ 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

 $\bigtriangleup$  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.

A 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.

 $\triangle$  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.

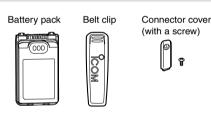
A WARNING! NEVER use the battery pack if it emits an abnormal odor, heats up, or is discolored or deformed. If any of these conditions occur, contact your lcom dealer or distributor.

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

A WARNING! NEVER use deteriorated battery packs. They could cause a fire.

**CAUTION: DO NOT** use the battery pack out of the specified temperature range for the transceiver and the battery itself ( $-20^{\circ}C \sim +60^{\circ}C (-4^{\circ}F \sim +140^{\circ}F)$ ). 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

# 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 to the transceiver. Both sliding locks make a 'click' sound when locked

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### **ATTACHING ACCESSORIES**

## ♦ Battery pack

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.

### To attach:

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

CAUTION: Shorter battery life could occur if the battery is left fully charged, completely discharged, or in an excessive temperature environment (above +50  $^\circ\mathrm{C}$ (+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

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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 five years have passed since the battery was manufactured
- · The battery has been repeatedly charged.

The battery cells may deteriorate and swell due to their characteristics if used in an environment and conditions such as: frequently charged, recharged immediately after full charge, used or saved in a hot place, or charged by methods other than the instructions. If the battery pack swells, it has reached the end of its life due to deterioration. Replace it with a brand new one.

# ♦ Charging caution

 $\triangle$  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

 $\bigtriangleup$  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.

 $\triangle$  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.

 $\triangle$  WARNING! Occasionally observe the battery pack condition while charging. If any abnormal condition occurs, discontinue using the battery pack.

A 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: DO NOT** charge the battery outside of the specified temperature range: BC-227 (15°C ~ 40°C (59°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.

OPTIONS on this sheet.

Connect an antenna to the antenna connector.

DO NOT carry the transceiver by holding only the

Transmitting without an antenna may damage the

DO NOT connect an antenna other than those listed in

Antenna

CAUTION:

transceiver



#### ♦ Belt clip To attach:

1. Remove the battery pack from the transceiver, if it is attached.

Battery sliding locks

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blasting sites.

**FCC INFORMATION** 

To ensure that your expose to RF CAUTION electromagnetic energy is within the FCC and IC 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 and IC 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 and IC RF exposure compliance requirements to be exceeded. The radio is transmitting when the LED indicator lights red. 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 listed in "OPTIONS" on this sheet 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 and IC RF exposure limits of this radio.

Operation is subject to the condition that this device does not cause harmful interference.

# RECOMMENDATION

regulations

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 the transceiver 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.

# 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, #6,912,495 B2.



#### To detach:

Push both battery sliding locks in the direction of the arrow. (1)

2. Lift up to detach the battery pack. (2)



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

2. Slide the belt clip in the direction of the arrow until the belt clip is locked and makes a 'click' sound.

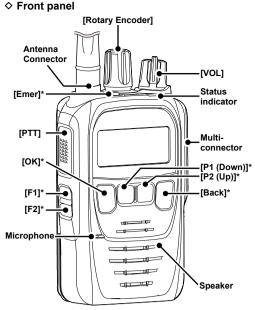


#### To detach: Lift the tab up (1), and slide the belt clip in the direction of the arrow (2)

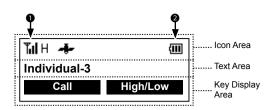
#### BE CAREFUL! DO NOT break your fingernail.



# PANEL DESCRIPTION



# FUNCTION DISPLAY



NOTE: The screen is an example. The displayed position of each icon may differ, depending on the function being used.

Icon Area

Indicators

Icons

SHIFT ICON Û

POWER ICON L1L2H

AUDIBLE ICON 🖪

MESSAGE ICON 🖾

the Message memory

have been read. BELL ICON

on the presetting. SCAN ICON Z

· Blinks while scanning.

# SIGNAL STRENGTH INDICATOR

Displays the relative receive signal strength level **2** BATTERY INDICATOR

Displayed or blinks to indicate the battery status

Ind	ication	(111	(11		
	attery tatus	Full	Mid	Charging required	Battery exhausted
	_				

① A user can use a Software key's secondary function in the Shift mode. Ask your dealer for details.

Displays the output power level. • "L1" is displayed when the output power is set to Low.

"L2" is displayed when the output power is set to Mid.
"H" is displayed when the output power is set to High.

Displayed when the channel is in the 'audible' (unmuted) mode.

Blinks after messages (Message or Status Message) have been received.

Stops blinking when the screen is changed, or any key is pushed, but is displayed if unread messages are still in

Disappears when all messages in the Message memory

Displayed when a matching signal is received, depending

blinks when the battery is exhausted.

The following icons are displayed in the Icon Area.

Displayed when the Shift function is ON.

· Lights white, then blinks red, yellow, and green when

turning ON the transceiver. Lights red while transmitting.

About the Status indicator

\*Dealer assignable

• Lights green while receiving a signal, or when the squelch is open.

#### About the Multi-connector

Connects to an optional speaker microphone or headset CAUTION: DO NOT use the transceiver without the

connector cover or the optional microphone attached. The transceiver meets IP67 requirements for dust-tight and waterproof protection only when the connector cover or the optional microphone is attached.

# About the Software key functions

Your dealers can assign the Software key functions to the keys

## SCAN TARGET CHANNEL ICON 🛪

Displayed when the channel is selected as a scan target channel

# SCRAMBLER/ENCRYPTION ICON In the Analog mode:

· Displayed when the Voice Scrambler function is ON. In the Digital mode:

Displayed when the Encryption function is ON.
Blinks when decoding an encrypted signal.

RECORD ICON

Displayed when the Record function is ON.
Blinks while recording audio.

TALK AROUND ICON 😼 Displayed when the Talk Around function is ON.

PHONE ICON 🍾 Displayed when the transceiver is connected to a telephone network on the selected channel. Blinks while receiving a phone call.

BROADCAST CALL ICON 🚇 Displayed when the Broadcast call is received. \*For only the dPMR version.

SITE LOCK ICON 😤 Displayed when the Site Lock function is ON.

LONE WORKER ICON Displayed when the Lone Worker function is ON.

MOTION SENSOR ICON Displayed when the Motion Sensor function is ON.

NOISE CANCEL ICON 🔤 Displayed when the Noise Cancel function is ON.

SURVEILLANCE ICON 🊿 Displayed when the Surveillance function is ON.

# VIBRATION ICON

Displayed when the Vibration function is ON. 

Displayed when the VOX function is ON. \*VS-3, or other Bluetooth headset is required to use the VOX function.

# Bluetooth® ICON 🚦 🕸

"<sup>\*</sup> <sup>\*</sup> is displayed when Bluetooth is activated. "B" is displayed when a Bluetooth device is connected.

#### ♦ Text Area

Displays the selected Zone number, Channel number, and Channel name, if set

#### Key Display Area

Displays the names of the function assigned to [P1] and [P2]. ① Ask your dealer about the assigned Software key functions.

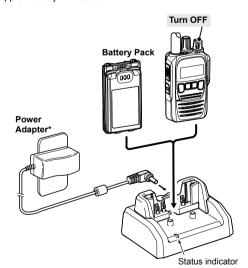
# **BATTERY CHARGING**

**NOTE:** Before detaching or attaching a battery pack, BE SURE to turn OFF the transceiver by rotating [VOL] fully counter clockwise, until it makes a "click" sound. Otherwise, a transceiver malfunction could occur

# ♦ Rapid charging with the BC-227

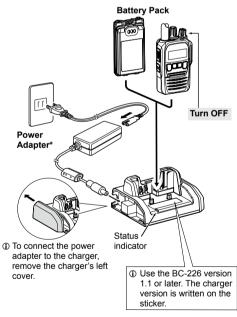
You can rapidly charge the Li-ion battery pack with the BC-227.

Charging time: Approximately 2.7 hours



# Rapid charging with the BC-226 Charging time: Approximately 2.7 hours

Displayed when a scan is paused.



\* A different type, or no power adapter is supplied, depending

## ♦ Information O Status indicator

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

# O BC-226 Fuse replacement

If a fuse blows, find and repair the cause of the problem. Then replace the damaged fuse with a new, adequately rated fuse Fuse type: 5 A/58 V (low profile mini blade fuse)

**NOTE:** Remove the fuse using the needle-nose pliers.



# **OPTIONS**

#### For Use in Hazardous Location

# **♦ BATTERY PACKS**

- BP-292UL Li-ion BATTERY PACK Voltage
- Rated Capacity: 1910 mAh

Battery life: Approximately 11 hours\* \*When the Power Save function is ON and the operating periods are calculated under the following conditions:

# **BASIC OPERATION**

### Turning ON the transceiver

**NOTE:** Before using the transceiver for the first time, the battery pack must be fully charged for optimum life and operation. See the BATTERY CHARGING section of this

Rotate [VOL] to turn ON the transceiver.

#### Receiving and Transmitting

- Receiving:
- Select a channel
- ① Rotate [Rotary Encoder] or push [Up] or [Down], depending on the presetting. When receiving a call, rotate [VOL] to adjust the audio
- output level to a comfortable listening level.

#### Transmitting:

CAUTION: Attach an antenna before transmitting Transmitting without an antenna may damage the transceive

- Wait until the channel is clear to avoid interference. 2. While holding down [PTT], speak at your normal voice
- level. 3. Release [PTT] to receive.

#### **IMPORTANT:**

- To maximize the readability of your signal: 1. After pushing [PTT], pause briefly before you start appendix
- speaking. 2. Hold the microphone 5 to 10 cm (2 to 4 inches) from your mouth, then speak at your normal voice level.

# For Use in Non-Hazardous Location

### ♦ CHARGERS

- BC-227 RAPID CHARGER
- + BC-123S AC ADAPTER, OPC-515L DC POWER CABLE To rapidly charge the battery pack. Charging time: Approximately 2.7 hours
- ① OPC-515L dc power cable must be purchased separately.

NOTE: Use the BC-227 version 1.1 or later. The charger version is written on the bottom panel. Ask dealer for details

- BC-226 DESKTOP CHARGER + BC-228 AC ADAPTER You can connect up to 6 BC-226 together. Charging time: Approximately 2.7 hours ① A power adapter may be supplied, depending on the charger's version.
- ♦ DC CABLES
- CP-23L CIGARETTE LIGHTER CABLE Used when charging battery packs through a 12 V cigarette lighter socket. For use with the BC-227.
- OPC-515L DC POWER CABLE Used when charging battery packs using a 13.8 V DC power source instead of the power adapter. For use with the BC-227

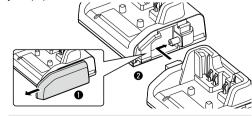
Some options may not be available in some countries. Ask your dealer for details

\* A different type, or no power adapter is supplied, depending on the charger version.

① Use the BC-227 version 1.1 or later. The charger version is written on the bottom panel. Ask dealer for details

on the charger version

• Connecting BC-226 together You can connect up to 6 BC-226 together. Remove the charger's right cover. (1) Snap the DC power plug to the other charger's DC power jack. (2)



WARNING: DO NOT connect more than 6 chargers together. It may result in an electric shock, cause a fire, overheating, or damage chargers.

#### 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.

TX : RX : standby = 5 : 5 : 90

#### ♦ ANTENNAS

- FA-SC26VS, FA-SC27VS, FA-SC56VS, FA-SC57VS FA-SC26US, FA-SC73US STUBBY ANTENNAS Shorter VHF or UHF antennas. FA-SC26VS: 136 ~ 144 MHz FA-SC27VS: 142 ~ 150 MHz FA-SC56VS: 150 ~ 162 MHz FA-SC57VS: 160 ~ 174 MHz FA-SC26US: 400 ~ 450 MHz FA-SC73US: 450 ~ 490 MHz
- FA-SC25V, FA-SC28V, FA-SC29V, FA-SC01U, FA-SC25U, FA-SC57U, FA-SC72U FLEXIBLE ANTENNAS VHF or UHF antennas. FA-SC25V: 136 ~ 150 MHz FA-SC28V: 148 ~ 162 MHz FA-SC29V: 160 ~ 174 MHz FA-SC01U: 350 ~ 400 MHz FA-SC25U: 400 ~ 430 MHz FA-SC57U: 430 ~ 470 MHz FA-SC72U: 470 ~ 520 MHz
- FA-SC61VC, FA-SC61UC CUT ANTENNAS
- FA-SC62V, FA-SC63V HIGH GAIN ANTENNAS
- ♦ BELT CLIPS and BELT HANGERS
- MB-136. MBB-3 BELT CLIP
- MB-96F. MB-96FL. MB-96N BELT HANGERS

#### ♦ OTHERS

- HM-184UL SPEAKER MICROPHONE With an Emergency key. The HM-184UL meets IP67 requirements for waterproof protection
- · LC-191 CARRYING CASE