



COMPANY PROFILE

ICOM, THE WIRELESS COMMUNICATION EXPERTS

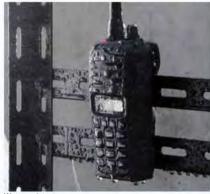
Icom Inc. is a wireless communications manufacturing company located in Osaka, Japan. Since Icom's establishment in 1954, We've had a long record as a trusted manufacturer of land mobile radio, amateur radio, marine radio, navigation products, aviation radio and communications receivers.



QUALITY & RELIABILITY

ICOM QUALITY AND ICOM RELIABILITY

Over 50 years of engineering and production excellence is a part of every lcom product. Using the latest equipment, lcom radios are tested to pass rigorous in-house tests as well as environmental tests to U.S. Military standard 810 specifications.



Water resistant



Temperature shock





Selar radiation

Solar radiation

PRODUCTION

MADE IN JAPAN QUALITY

Icom is a rare example of an electronics manufacturer that has not shifted production to lower cost countries, but kept its production base in Japan. The Wakayama Icom plant has an advanced production system to produce small volume/multimodel wireless communication products.

Recom



ICOM BRAND

ICOM, WORLD BRAND NAME

Icom is recognized as a reliable 2-way radio global brand name around the world. Our land mobile radios are used by many professional organizations all over the world, like the United States Department of Defense. In fact, Icom was chosen as the first Japanese company to supply radios to the U.S. Marine Corps.





NETWORK

ICOM'S WORLDWIDE NETWORK

Icom products are sold in over 80 countries around the world. Icom has an international sales and service network, including sales subsidiaries in the U.S., Australia, Germany, Spain and China. Icom is here to support and service our products and your communication needs.









FEATURED FOR THE FIRST RESPONDER! **READY FOR: P25 CONVENTIONAL, P25 TRUNKING AND ANALOG CONVENTIONAL. ALL IN ONE RADIO!**

VHF HANDHELD TRANSCEIVERS

UHF HANDHELD TRANSCEIVERS

IC-F9011T P25 Trunking/ Conventional ready IC-F9021T P25 Trunking/ Conventional ready IC-F9011S P25 Trunking/ Conventional ready IC-F9021S P25 Trunking/ Conventional ready IC-F9011B P25 Trunking/ Conventional ready IC-F9021B P25 Trunking/ Conventional ready













P25 Conventional and Trunking

The IC-F9011T/S/B series has analog conventional, and P25 conventional or P25 trunking capabilities, all standard within one radio, and conforms to the TIA/EIA-102.CAAB standard.

Digital/Analog mixed mode operation

Receives both analog and P25 digital modes and transmits either mode depending on programming.

Optional AES/DES encryption

Optional UT-125 AES/DES or UT-128 DES encryption unit required. Versions certified to FIPS 140-2 Level 1 for AES encryption are planned for future release.

OTAR (Over-the-Air-Rekeying) AMBE+2™ Enhanced vocoder ready

4-way navigation cross keypad

The 4-way cross keypad* on the front panel provides an intuitive user interface. On the top of the radio, there is a toggle switch to turn the encryption on or off*2 and the 3 position switch allows you to quickly select an operating zone*2. *1 IC-F9011T/S series only. *2 According to the programmed setting.

6W RF output power

The IC-F9011T/S/B series provides 6W*3 of high output power. The supplied 3040mAh (typ.) Li-Ion battery pack, BP-254, provides 9 hours* of operating time. *3 5W for UHF model *4 Typical operation with Tx: Rx: standby=5:5:90.

1000mW audio output power

The built-in BTL amplifier doubles the audio output power and delivers loud audio to receive all calls under noisy environments.

Other features

- IP57 dust and waterproof protection
- Slim dimensions (41.8mm (121/32 in) thick)
- 512 channels/128 zones DTMF autodial*5
- 14-pin accessory connector Built-in audio compander*5
- Built-in inversion type voice scrambler*5
- VOX function for hands-free operation Optional man down unit, UT-124R
- FM wide/narrow channel spacing*5 CTCSS and DTCS encoder and decoder*5
- 2-Tone encoder and decoder*5 and MDC 1200 compatible*5 (Available in future) *5 Analog mode only

Supplied Accessories (May differ according to version)

- Battery pack, BP-254 Antenna
- Belt clip, MB-115



THE SMART MIGRATION FROM ANALOG TO AN APCO P25 **DIGITAL RADIO SYSTEM**

VHF HANDHELD TRANSCEIVERS

IC-F70DT P25 Conventional ready

IC-F70DS P25 Conventional ready

IC-F70T IC-F70S

UHF HANDHELD TRANSCEIVERS

IC-F80DT P25 Conventional ready IC-F80DS P25 Conventional ready

IC-F80T IC-F80S











P25 conventional mode

The IC-F70D series is APCO Project 25 (P25) compliant. It ensures interoperability with other manufacturer's P25 digital radios in conventional mode. The radio is programmable digital and/or analog FM modes per channel.

Intrinsically safe version

Versions of the IC-F70 series are available that conform to the intrinsically safe rating of the FM Approvals.

Intrinsically safe: Class I, II, III, Division 1, Groups C, D, E, F, G;

Nonincendive: Class I, Division 2, Groups A, B, C, D hazardous locations

Connected battery pack : BP-254FM, "Max. Temp. : T3C at 40°C" Approved options: HM-138, HM-168IS, HS-94, HS-95, HS-97, VS-1SC,

UT-109, UT-110, UT-124



AES/DES digital encryption

AES and DES are encryption standards required by public safety agencies. The IC-F70D series provides secure encryption with DES and AES accordingly when activated with EX-2785 J02 (for DES) and EX-2785 J03 (for AES) activation software. Versions certified to FIPS 140-2 Level 1 for AES encryption are also available.



TM: A Certification Mark of NIST, which does not imply product endorsement by NIST, the U.S. or Canadian Governments.

IPX7 waterproof protection

The IC-F70 series has solid waterproof* construction. A speaker grill designed for water removal keeps communications clear in inclement weather.

* Submersible in 1m depth of water for 30 minutes, equivalent to IPX7.

Other features

- 5W (VHF), 4W (UHF) output power
- 256 channels/32 zones
- Dot matrix multi function display
- Built-in audio compander (Analog mode)
- Large capacity Li-Ion battery pack
- Built-in 5-Tone, 2-Tone, CTCSS, DTCS and MDC 1200 (Analog mode)
- Optional man down unit UT-124
- Tactical group function with optional zone copy cable
- Built-in Voice Operated Transmission (VOX) capability
- P25 upgrade is available for analog versions (Optional UT-120 and EX-2785 J01 are required)



- Battery pack, BP-253/BP-254
- Antenna Belt clip, MB-94



IC-F80DS

IC-F70DT



POWER PUBLIC SAFETY RELIES ON! READY FOR: P25 CONVENTIONAL, P25 TRUNKING



Common features in IC-F9511HT and IC-F9511T/S

P25 Conventional and Trunking

The IC-F9511HT/T/S series has analog conventional, P25 conventional or P25 trunking capabilities, all standard within one radio and conforms to the TIA/EIA-102.CAAB standard.

Digital/Analog mixed mode operation

Receives both analog and P25 digital modes and transmits either mode depending on programming.

Optional AES/DES encryption

Optional UT-125 AES/DES or UT-128 DES encryption unit required.

OTAR (Over-the-Air-Rekeying) AMBE+2™ Enhanced vocoder ready

110W of powerful RF output

A full 110W of output power is available for reliable long distance communication. A large heat sink provides effective cooling mechanism allowing reliable duty cycle operation (20% duty cycle transmission).

Compact "letter size" RF unit

While the IC-F9511HT provides 110W of RF output, the RF unit dimensions are only 175 (W) \times 279 (D) \times 60 (H) mm, so the IC-F9511HT can be fit into the "letter size" console box. The controller and speaker are separated from the main (RF) unit for flexible installation.

9-pin external speaker connector

The IC-F9511HT has a 9-pin speaker connector with 15W (typ.) BTL audio amplifier for connecting SP-30 external speaker, horn honk and ignition sensing line, etc..

IP54 dust-protection and splash resistance

The front panel and RF unit of the IC-F9511HT has dust-protection and splash resistance, equivalent to IP54.

Other features

- FM wide/narrow channel spacing*1
- 512 channels/128 zones Dot matrix multi-function display
- D-SUB 25-pin programmable ACC connector
- Self-grounding microphone, HM-148G
- Optional external speaker, SP-30
- NTIA VHF specification compliant Talk around function
- Built-in audio compander*1
- Built-in inversion type voice scrambler*1
- DTMF autodial*1 Tactical group function
- CTCSS and DTCS encoder and decoder*1
- 2-Tone encoder and decoder*1 and MDC 1200 compatible*1 (Available in future)
- *1 Analog mode only

Supplied Accessories (May differ according to version)

- Hand microphone, HM-148G
- Controller unit
- Separation cable (5m)
- DC power cable
- Key assign stickers
- Mounting bracket kit
- Mounting bracket kit for main unit and controller
- Fuse Crimp terminals
- Socket terminals





AND ANALOG CONVENTIONAL. All IN ONE RADIO!



Detachable controller (front panel)

With the optional remote control kit, RMK-2 and separation cable, the front panel controller of the IC-F9511T/S can be detached from the main unit. The controller has dust-protection and splash resistance equivalent to IP54.

512 memory channels, 128 zones

Up to 512 memory channels can be divided into 128 memory zones, allowing you flexible channel and communication group management.

Programmable accessory connector

The IC-F9511T/S has a D-SUB 25-pin ACC connector for connecting external devices. It has reserved pins for programming to input operating channels, and output received audio or honk a horn, etc. In addition, an ignition sensing line allows you to control the radio power from the engine ignition switch.

Self-grounding microphone, HM-148G

The supplied HM-148G self-grounding microphone has a mechanism for self grounding where a grounding wire is no longer required.

Other features

- 50W output power FM wide/narrow channel spacing*1
- 512 channels/128 zones Dot matrix multi function display
- Built-in 22W BTL audio amplifier for PA function and RX speaker
- NTIA VHF specification compliant Talk around function
- Built-in audio compander*1 DTMF autodial*1
- Built-in inversion type voice scrambler*1 Tactical group function
- CTCSS and DTCS encoder and decoder*1
- 2-Tone encoder and decoder*1 and MDC 1200 compatible*1 (Available in future) *1 Analog mode only

- Supplied Accessories
- (May differ according to version)

IC-F1821

Supplied

Accessories

- DC power cable
- Microphone hanger
- Hand microphone, HM-148G Mounting bracket kit
 - Key assign stickers
 - External speaker, SP-22*
 - * IC-F9511T only.

Mounting bracket kit

Key assign stickers

External speaker, SP-22*
* IC-F1821/D, IC-F2821/D only.



IC-F2821

• Hand microphone, HM-148G

• DC power cable

Microphone hanger





Conventional/IDAS™*/ LTR™ MULTI-MODE LAND MOBILE!

VHF HANDHELD TRANSCEIVERS

IC-F3161DT (5W) IC-F3161DS (5W) IC-F3161T

IC-F3161S (5W) IC-F3163T (5W)

IC-F3163S (5W) **UHF HANDHELD TRANSCEIVERS**

IC-F4161DT (5W) IC-F4161DS (5W) IC-F4161T IC-F4161S (5W)

IC-F4163T (5W) IC-F4163S

MIL-STD 810





* Already installed in IC-F3161DT/DS, F4161DT/DS. Optional UT-126H required.

IDAS™, 6.25kHz digital mode ready

The IDAS digital conventional and trunking modes are available with the optional UT-126H digital unit*. (See page 17-19 for IDAS details.)

* Already installed to the IC-F3161/F4161 "D" versions.

512 memory channels with 128 zones

The 512 memory channel capacity with 128 zones allows you to divide and store a variety of channel groupings for versatile and efficient fleet management.

Dot matrix, multi-function LCD

The IC-F3161/D series has a large dot matrix display to show information with high resolution characters. The display setting is programmable to show one line and 12 characters, or two lines and 24 characters. The bottom row shows assigned functions to the [P0] to [P3] buttons.

Voting operation

The Voting operation detects the signal strength level of repeater sites and automatically selects the strongest station, useful for roaming between 2 or more voting repeater sites. Once you program for voting operation in a memory zone, you can easily start voting operation by changing the zone setting.

Basic LTR™ mode operation

Group, selective, and phone call are available in LTR™ mode.

Loud audio output with BTL amp

The IC-F3161/D series employs a BTL amplifier (500mW typ.) that increases the audio output and the built-in audio compander provides clear, low noise communications.

Other features

- 5W (VHF/UHF) output power
- Built-in inversion type voice scrambler and optional UT-109R and UT-110R

Inversion type voice scrambler is not compatible with UT-109/UT-110 voice scrambler.

- The mode independent setting automatically selects the scanning list, according to the operating channel
- Nuisance delete
- MDC 1200 compatible IP55 dust-protection and water jet resistance
- Optional man down unit, UT-124R and lone worker function
- Embedded ESN (Electronic serial number) and more...



IC-F4161S

- Battery pack, BP-232N Antenna
- Belt clip, MB-94



RADIO & PAGER, ALL IN ONE

VHF HANDHELD TRANSCEIVER

IC-F50V (5W)

UHF HANDHELD TRANSCEIVER

IC-F60V (4W)







Vibration alert function*

When a pre-programmed 2-tone/5-tone code or call from a specific user (MDC mode only) is received, the radio vibrates powerfully enough to be felt through heavy clothing.

*Depending on version.

8 minutes' voice recorder*

When a pre-programmed 2-tone/5-tone code or a SelCall (MDC mode only) is received, the voice recorder automatically starts recording the incoming message. You will not miss an important call even when you are temporarily away from the radio.

*Depending on version.

700mW (typical) audio output with internal speaker

The IC-F50V series delivers a loud 700mW audio output with the built-in BTL amp. The built-in audio compander provides clear, low noise communica-

IP67, dust-tight and waterproof protection

The IC-F50V series can withstand submersion in 1m depth of water for up to 30 minutes and has dust-tight construction that prevents the ingress of dust.

Other features

- 5W (VHF), 4W (UHF) output power
- 56(W)×97(H)×36.4(D) mm compact body
- MDC 1200 compatible Built-in Inversion type voice scrambler
- Optional waterproof speaker-microphone, HM-168
- Large capacity Lithium-Ion battery pack, BP-227
- Built-in CTCSS, DTCS, 2-Tone and 5-Tone capability
- Mode-dependent scan Nuisance delete function

Supplied Accessories

- Battery pack, BP-227 Antenna
- Belt clip, MB-98 Key assign sticker
- (May differ according to version)
- 5W (VHF), 4W (UHF) output power
- IPX7 waterproof protection
- Built-in CTCSS, DTCS, 2-Tone and 5-Tone capability
- 56(W)×97(H)×36.4(D)mm, compact body
- Built-in UT-110 equivalent voice scrambler
- Inversion type voice scrambler is built-in to all versions
- MDC 1200 compatible*
- FM intrinsically safe version available (Ask your dealer for details) and more
- * depending on version

VHF HANDHELD TRANSCEIVER IC-F50 UHF HANDHELD TRANSCEIVER IC-F60





COM

IC-F60V



ADVANCED STANDARD MODEL

VHF HANDHELD TRANSCEIVERS

UHF HANDHELD TRANSCEIVERS

IC-F33GT (5W) IC-F43GT (4W)

IC-F33GS (5W) IC-F43GS (4W)







256 memory channels with 16 zones

The 256 memory channel capacity with 16 zones allows you to divide and store a variety of channel groupings. Channel selection can be made easily with a rotation of the rotary channel knob.

Lithium-Ion battery pack

The supplied 2000mAh Li-Ion battery pack, BP-232N, provides 15/16 hours* of operating time. An optional AA size battery case BP-240 is an ideal choice for emergency preparedness.

* UHF/VHF, typical operation TX:RX: Standby=5:5:90, power save on.

Multiple 5-Tone, Multiple 2-Tone

The IC-F33G series can encode and decode up to 10 2-Tone codes or 32/8* 5-Tone codes on a single memory channel. This is perfect for professionals who require multiple district paging on one channel.

* Encode/decode.

Alphanumeric display

The 8-character alphanumeric display shows channel, zone, tone code, MDC alias names and scanning channel names on the display. A separate row of operational icons indicate battery, signal strength, RX/TX and other radio conditions.

MDC 1200 compatible

See page 21-22 for MDC 1200 details.

Other features

- 5W (VHF), 4W (UHF) output power
- · Optional man down unit, UT-124
- Wide frequency coverage and wide, and narrow channel spacing programmable
- · Compact and lightweight body
- · Built-in audio compander
- Flash CPU for future upgrades

Supplied Accessories (May differ according to version)

- Battery pack, BP-232N Antenna
- Belt clip, MB-94 Unit cover



ECONOMICAL STANDARD MODEL

VHF HANDHELD TRANSCEIVERS

IC-F3021T (5W) IC-F3021S (5W) IC-F3023T (5W) IC-F3023S (5W)

UHF HANDHELD TRANSCEIVERS

IC-F4021T (4W) IC-F4021S (4W) IC-F4023T (4W) IC-F4023S (4W)











IC-F4021T

Supplied Accessories (May differ according to version)

• Battery pack, BP-232N • Antenna

• Belt clip, MB-94 • Unit cover

128 memory channels with 8 zones

The IC-F3021 series has 128 memory channels with 8 zones. Memory channel selection can be made easily with up/down buttons. A large LCD provides at-a-glance convenience so that you can visually confirm with whom you are talking to.

Supports multiple, flexible selective call

CTCSS, DTCS, 2-Tone, 5-Tone encoder/decoder and DTMF encoder are built-in. The optional UT-108R decodes received DTMF code.

Lone worker function

When the radio is not operated for a preset period, the radio sounds a beep and requires you to push any button. If the radio is not operated for a preset time, an emergency signal automatically transmits and informs a co-worker or dispatcher that something may have happened to the individual worker.

Mode dependent scan

When you change the operating channel, the scanning list automatically changes following that channel setting. It is convenient when you move to a different operating area and change an operating channel, you don't have to change the scanning setting.

Other features

- 5W (VHF), 4W (UHF) output power
- MDC 1200 compatible (limited functions only)
- Optional voice scrambler, UT-109R and UT-110R
- Optional man down unit, UT-124R
- Surveillance function temporarily turns off the LED backlight and beep sound
- Dust-protection and splash resistance equivalent to IP54
- · Compact and lightweight body
- Low battery beep function
- Nuisance delete



BUILT TO LAST, BUILT TO WORK!

VHF HANDHELD TRANSCEIVERS

IC-F14 (5W) IC

IC-F14S (5W)

UHF HANDHELD TRANSCEIVERS

IC-F24 (4W) IC-F24S (4W)







Tough and reliable construction

The IC-F14/S series is built around an aluminum die-cast chassis and covered with a tough polycarbonate casing. This radio is built to last. Its dual slide rail securely locks the battery to the radio. The belt clip is clamped between the radio and the battery, making it nearly impossible to knock loose.

Simple operation

Having only 3 buttons, one volume and one channel knob, the IC-F14/S series does not require special training to use. Positive button action for sure operation even when wearing gloves allows you to get down to the business of communicating without fuss.

Optional board

The IC-F14/S series has an option slot for adding an optional unit. Individual board options include: voice scrambler, man down and DTMF decoder features.

Most popular signalings built-in

Use the built-in 2-Tone, 5-Tone, CTCSS and DTCS capabilities as standard to set up your own talk groups and quiet stand-by when others are talking. In addition, MDC 1200 PTT ID and emergency call functions are available. (Transmit only)

Other features

- 5W (VHF), 4W (UHF) output power
- Wide frequency coverage in one version
- Optional voice scrambler, UT-109 and UT-110
- Optional DTMF decoder, UT-108
 Optional man down unit, UT-124
- Multiple 2-Tone, Multiple 5-Tone Lithium-Ion battery standard
- LED low battery alert TOT function and lock out penalty timer
- 2 step power saver Normal and priority scan
- 500mW loud and clear audio
- Embedded ESN (Electronic serial number)
- Wide/narrow (25/12.5kHz) channel spacing capability, and more...

Supplied Accessories (May differ according to version)

- Battery pack, BP-232N Antenna
- Belt clip, MB-94 Unit cover
- The on-site communications solution
- Simple controls, easy to use
- Multiple selective calling functions
- Powerful 4 or 5W of output power
 Military rugged construction

VHF HANDHELD TRANSCEIVER IC-F11 IC-F11S
UHF HANDHELD TRANSCEIVER IC-F21 IC-F21S







Conventional/IDAS™*/LTR™ MULTI-MODE PROFESSIONAL MOBILE!

VHF MOBILE TRANSCEIVERS

IC-F5061D (50W)

IC-F5061 (50W)

IC-F5063 (50W) **UHF MOBILE TRANSCEIVERS**

IC-F6061D (45W)

IC-F6061 (45W)

IC-F6063 (45W)







* Optional UT-126H required. Already installed in IC-F5061D, F6061D.



The above photo includes optional separation kit (RMK-3) and separation cable (OPC-609)

IDAS™, 6.25kHz digital mode ready

The IDAS digital conventional and trunking modes are available with the optional UT-126H digital unit*. (See page 17-19 for the IDAS details) * Already installed in the IC-F5061/F6061 'D' versions.

Built-in versatile tone signaling

Use the built-in CTCSS, DTCS, 2-Tone 5-Tone or MDC 1200 capability to set up your own talk groups, and have your radio standby quietly when other groups are talking. Up to ten 2-Tone, eight 5-Tone codes can be decoded on a single memory channel.

IP54 dust-protection and splash resistance (Controller only)

When used with the optional separation kit (RMK-3) and separation cable, the front panel of the IC-F5061/D series can be detached from the main unit. The control head has dust-protection and splash resistant construction equivalent to IP54.

Built-in basic LTR™ mode operation

Group, selective and phone calls are available in built-in the LTR™ mode. MDC signaling is also available with LTR™ mode.

Voting operation

The Voting operation detects the signal strength level of repeater sites and automatically selects the strongest station, useful for roaming between 2 or more voting repeater sites. Once you program for voting operation in a memory zone, you can easily start voting operation by changing the zone setting.

Other features

- 50W (VHF), 45W (UHF) output power
- The mode independent setting automatically selects the scanning list, according to the operating channel • Nuisance delete
- Lone worker function
- Built-in inversion-type voice scrambler and optional UT-109R/UT-110R available*
- * Inversion type voice scrambler is not compatible with UT-109R/UT-110R voice scrambler.
- · Large dot matrix display and multi-function LCD
- 8 DTMF autodialing memories
- Shares same programming software with IC-F3161 series
- D-Sub accessory connector, ignition sensing line and more...

Supplied Accessories

- Hand microphone, HM-148G Mounting bracket kit
- DC power cable (May differ according
 - · Microphone hanger
- Key assign stickers



A FLEXIBLE YET SIMPLE TOOL FOR B&I USERS

VHF MOBILE TRANSCEIVERS

IC-F521 (50W) IC-F520 (25W) **UHF MOBILE TRANSCEIVERS**

IC-F621 (45W) IC-F620 (25W)





Flexible selective calling

CTCSS, DTCS, 2-tone and 5-tone encoder/decoder and DTMF encoder are built-in. These signalings are applicable to a wide variety of selective calling systems to call specific station(s) or control a repeater. The DTMF decode function is available with optional UT-108.

256 memory channels

With 256 channels separated into 16 memory banks and identifiable by a 10-character alphanumeric LCD, you can quickly access preprogrammed contingency frequency plans-ideal for wide area, crossmunicipality communications!

Face the speaker in the direction you need

The IC-F521/F621 series lets you simply rotate the chassis to face the speaker in the direction you need while the control head remains right side up.



The front panel is invertible from the main unit. You can always keep the front panel and the speaker face position convenient to you for ease of use.

* Avoid installation and/or use of the transceiver in direct sunlight.

9 programmable buttons

Two pairs of up/down buttons and P0-P4 function assignable buttons allow you to customize functions to meet specific needs.

Other features

- · Built-in audio compander
- Backlit keypad
- Independent AF volume knob
- Optional voice scrambler, UT-109 or UT-110
- Selectable channel spacing (12.5/15kHz)
- Stun and power-on password function
- Flash ROM CPU
- F521 50W, F621 45W version available

Supplied Accessories

- (May differ according
- to version)
- Hand microphone, HM-152 Mounting bracket kit
- DC power cable
- Microphone hanger

- Key assign stickers



THE NEW STANDARD FOR MOBILE B&I USE

VHF MOBILE TRANSCEIVERS IC-F5021

(50W)

IC-F5023

UHF MOBILE TRANSCEIVERS

IC-F6021 (25W) IC-F6023

(45W) (25W)

IC-F5023H (50W) IC-F6023H (45W)







Max. 128 channels with 8 memory zones

Up to 128 channels with 8-character channel names can be stored and divided into 8 zones for flexible channel management.

8-character alphanumeric display

The alphanumeric LCD shows a variety of information at a glance. The "z" icon on the upper right of the display shows the scanning is activated.

Advanced 2-Tone/5-Tone systems

2-Tone, 5-Tone, CTCSS, and DTCS encoder/decoder are equipped as standard. Multiple 2-Tone/5-Tone codes are programmable on a channel. When received the 2-Tone/5-Tone radio stun code, the radio operation is temporary disabled. The revive function resumes the stunned radio operation over the air.

External memory channel control with optional OPC-1939

The optional OPC-1939 is a D-SUB 15-pin ACC cable for connecting various external devices like a PC, vehicle's horn, etc. The external memory channel control function allows you to select the operating channel from external device.

Other features

- Selectable wide/narrow channel spacing per channel
- Hook scan function and Hook scan on/off button programmable
- MDC 1200 compatible (limited functions)

- 8 autodialing memories for DTMF and optional decoder UT-108R
- Optional voice scrambler, UT-109R or UT-110R
- ±2.5 ppm frequency stability both in VHF and UHF
- 4W (typ.) front mounted speaker
- 10 scanning lists, normal/priority scan and more...

Supplied

Accessories (May differ according

to version)

- Hand microphone, HM-152 Mounting bracket kit
- DC power cable
- Microphone hanger
- Key assign stickers





- Simple operation with up to 8 memory channels
- Powerful 50W (VHF), 45W (UHF) output* (depending on version)
- Programmable LED lighting
 Built-in 5-Tone, 2-Tone, CTCSS and DTCS
- Optional DTMF decoder, UT-108 and more.

VHF MOBILE TRANSCEIVERS IC-F121S

UHF MOBILE TRANSCEIVERS **IC-F221S** IC-F211S

IC-F1118

- Supplied Accessories (May differ according to version)
- Hand microphone, HM-152
- DC power cable
- Microphone hanger
- · Mounting bracket kit
- Key assign stickers





UNIQUE TWO-IN-ONE REPEATERS

VHF REPEATER

UHF REPEATER







IDAS™, 6.25kHz digital mode ready

The IDAS digital conventional mode is available. With optional UC-FR5000, the IDAS trunking is also available.

Two RF modules in one unit

The IC-FR5000 series has an internal space for installing an optional RF unit, UR-FR5000 series. Two RF modules can be installed in a chassis reducing installation space, and increasing channel capacity. They can be programmed and operated independently.



19-inch rack mount design, 2U height low profile design

The IC-FR5000 series has a rack mount bracket and handles for installation in an industry standard 19-inch rack.

Multiple CTCSS and DTCS tone decode

The IC-FR5000 series detects multiple CTCSS and DTCS on a channel (up to 16 tones on a table) and downlinks (transmits) the received signal with a specified tone. This function is useful for sharing a channel with multiple groups.

Base station operation

The IC-FR5000 series has 5 programmable buttons, 12-digit dot-matrix display and 32 memory channels allowing you to use the repeater as a base station.

Other features

- Programmable accessory connector (D-sub 25-pin) for connecting trunking controllers or other external devices
- 5-Tone and DTMF encoder/decoder CW ID transmitter
- Normal and priority scan setting
 - Wide frequency coverage
- 50W output power (at 50% duty operation), 25W full duty
- Built-in audio compander
- Optional voice scrambler UT-109R/UT-110R and built-in inversion type voice scrambler*
- Optional UC-FR5000 for IDAS trunking mode
- * Inversion type voice scrambler is not compatible with UT-109R/ UT-110R voice scrambler.

Supplied Accessories

- DC power cable
- (May differ according to version)
- Key assign stickers



ADVANCED ALL-IN-ONE REPEATERS

VHF REPEATER

UHF REPEATER

IC-FR3000 (50W) IC-FR4000 (50W)





50 Watt continuous full duty cycle operation

A rugged heat sink, large cooling fans and a high performance power module provide the repeater with a stable 50W at full duty cycle operation.

Automatic battery backup system

The IC-FR3000 series accepts both AC and DC power source. A builtin backup system supports automatic switching to an external power supply (13.6V DC) if the AC power supply fails.

CTCSS, DTCS, 2-Tone, 5-Tone, DTMF encoder/decoder

Multiple signaling systems are equipped as standard. These systems are fully compatible with Icom F-series radios.

Internal space for duplexer and isolator

The repeater has an internal space to install a duplexer and isolator*. The controls of the duplexer are accessible from the front of the repeater without disassembly. Faster and easier maintenance and adjustment is possible.

* Ask your dealer for details about available duplexers and isolators.

Other features

- Telephone interconnect capability
- DTMF remote control capability
- Optional wall mount bracket, MB-77 and 19 inch rack mount bracket, MB-78
- Accessory connector (D-sub 25-pin) on the rear panel for trunking controller
- Compatible with VEGA tone remote control system
- Optional Voice Scrambler UT-109 or UT-110
- CW ID transmitter (DTMF or 5-Tone also selectable)
- Password and kill/stun function for security
- 16-digit alphanumeric display
- Self check function checks for internal errors and alerts with a phone
- Master/Slave backup operation by connecting two repeaters

Supplied Accessories

• AC power cable

(May differ according to version)

• Spare fuses



Flexible migration path from analog to digital

The IC-FR5000 series can receive both analog and digital mode signals on a single channel. You can partially introduce IDASTM digital radios, while still maintaining the existing analog radios in the system.



Spectrum efficiency

····· Conventional wide area IP network is

available later ► 6.25kHz IDAS™ digital

→ 25/12.5kHz Analog

6.25kHz digital trunking

The IDAS™ system utilizes 6.25kHz narrow channel spacing. This system is not only spectrum efficient but meets the 2011 deadline for narrow band compliance.



Improved audio quality and coverage

Enjoy low noise audio over a greater comparable area to analog FM. The IDAS™ radio uses the AMBE+2™ codec, the latest evolution in vocodina technology.



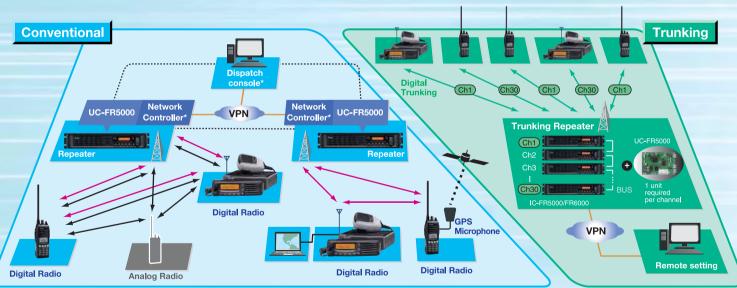
IDAS™ trunking with optional UC-FR5000

The optional UC-FR5000 offers single site digital trunking capability for effective channel management. Its distributed system (similar to analog LTRTM trunking) does not require a dedicated control channel. Up to 30 channels (RF units) per site can be set up.



Flexible IP network possibilities

Being digital, integration and convergence with IP technology will be possible soon to enhance the basic system.



The above is a system image only. Actual release timing and system capabilities are still to be decided.



VHF HANDHELD TRANSCEIVERS

IC-F3161DT IC-F3161DS

UHF HANDHELD TRANSCEIVERS

IC-F4161DT

IC-F4161DS



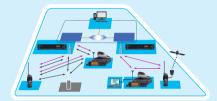
VHF MOBILE TRANSCEIVER IC-F5061D **UHF MOBILE TRANSCEIVER** IC-F6061D

BRIDGES ANALOG AND DIGITAL



IDAS™ Conventional Features

IDAS™ is the Icom's digital land mobile radio system using the conventional NXDN™ common air interface and has complete system components including handheld, mobile radios and repeater. Useful calling features including selective calling, status message, radio stun/kill/revive, GPS position reporting, and more. Make the IDAS™ is ideal for business and industry users who are thinking to migrate to a digital system, and future narrow channel spacing now.



Selective call, group call and talk group ID

The IDAS™ radios allow you to call individual or group users. The radio automatically sends its own ID number while holding the PTT button. The IDAS™ radio memorizes up to 500 each of individual/group ID numbers and alias names in the table. The alias name or individual/group ID is displayed on the LCD while receiving a message allowing you to identify who is calling.

Emergency call functions

When the emergency button is pushed, the emergency signal will be automatically sent to the dispatcher or another radio. The emergency man down function* with the optional man down unit, UT-124R, and the lone worker function are also available.

* IC-F3161D series only.

Status message

You can set up to 100 conditions such as "on duty", "at lunch" or "in route" and send your status to another unit or the dispatch. Also, you can request another unit to send their status and receive it.

GPS position reporting

When connected to a GPS receiver or GPS microphone, position information can be sent with PTT button or at preprogrammed intervals. If a base station is connected to a PC with mapping software, a vehicle management system can allow you to manage a vehicle fleet efficiently. GPS position information also can be set to send with status message or call alert.

Radio kill, stun and revive

The radio kill function disables a lost or stolen radio over the air, eliminating security threats from undesired listeners. When the radio stun command is received, all functions will be temporary locked out until the revive command is received or the user password is entered. The radio can also send radio stun, kill and revive commands.

RAN for digital code squelch

The RAN (Radio Access Number) code is the digital equivalent of CTCSS for accessing an IDAS $^{\rm TM}$ repeater or digital code squelch function.

Network interface*1

The optional UC-FR5000 network controller will interconnect between IDAS™ repeaters through a IP network. Ideal for cover a wide area network. When connected to a PC, you can remotely maintain the repeater configuration from your PC.

*1 Available in the future.

Other features

- Radio check function allows you to verify if another radio is within the communication range
- Call log displays the received call history
- Call alert function notifies receiving party that a call is coming with a beep sound and blinking icon
- Base station operation for repeater
- PC control capability



VHF REPEATER
IC-FR5000
UHF REPEATER
IC-FR6000

IDAS™ Trunking Features

With the optional UC-FR5000 IDAS™ trunking controller, the IDAS™ repeater offers single site digital trunking capability. This allows you further effective channel management by sharing a minimum of channels with a large numer users.





UC-FR5000

Distributed control channel

The IDASTM trunking system distributes the IDASTM trunking service to any requested channel, and every channel can be used for voice communications. The IDASTM trunking system utilizes given channels more effectively than a centralized control channel system and reduces waiting time for access.

Digital Common Features

Many calling features such as selective call, data call, status call, emergency call, remote stun, remote monitor and digital voice scrambler are also available in the IDAS $^{\text{TM}}$ trunking system.

Up to 30 channels in a system

The IDAS™ trunking system can have up to 30 channels (RF units) per site. All of the repeaters must be interconnected with a data bus* (Category 5 straight cable).

* Cannot be used for multi-site connection at this time.

Number of unit ID and talkgroup ID

The IDAS™ trunking system has a potential ability to handle up to 2,000 unit ID codes and 2,000 talkgroup ID codes per channel. The practical number of users in any one system (site) may vary from many factors, but the IDAS™ trunking system is designed to be used by up to 100 to 200 users (radios) per channel.

Secondary home channel

If the home repeater fails, the system automatically switches to a secondary repeater/channel for backup operation.

Two RF modules in one unit

The IC-FR5000 series uses only 2U height and has an internal space for installing another RF unit, the optional UR-FR5000 series. Two RF modules* can be installed in the chassis to save installation space. For example, a 10 channel IDASTM trunking system would use a 10U height, instead of a 20U height.

* For a two channel IDASTM trunking repeater, two UC-FR5000s are required for each channel.



Web browser configuration

Most of the UC-FR5000 configurations can be made via a web browser.



Area bit setting

If there are two IDAS $^{\text{TM}}$ trunking systems using the same frequency within a close area, the area bit setting allows the trunked radios to identify its own repeater site.





THE NEW LEADER IN COMMERCIAL **GRADE SUBSCRIBER UNITS**

UHF TRUNKED HANDHELD RADIO

LTR/PassPort Version

UHF TRUNKED MOBILE RADIOS

LTR/PassPort Version





Multiple modes

The IC-F43TR and F620/F621TR offer basic LTR™, PassPort and conventional operations in one unit. Conventional operation and talkaround are both available with the touch of a button, even while you are operating in LTR™ or PassPort mode.

LTR™ Features and Select Call

The IC-F43TR and F620/F621TR offer maximum flexibility to program up to 50 systems or up to 250 groups per system. All basic LTR™ features, including direct phone calling and widenarrow channel spacing are available.

P1

P2 | P3

PassPort Features — NTS Release 2.2

- Individual Selective Call (MIN call) Allows private call between individual members within a fleet.
- Display MIN Text While in group conversation, you can see the name of the calling party in the display, instead of the MIN number.
- Primary Talk Group "All Call" allows individual users to call all groups in the fleet.
- RSSI (Receive signal strength indicator) Detects the strongest signal site, providing seamless roaming.
- Site Lock Allows the user to lock the radio onto the current site to avoid roaming.

Other features

- 400-430 and 440-490MHz coverage, 45W output (IC-F621TR only)
- 400-470 and 450-512MHz coverage, 5W output (IC-F43TR only)
- · Optional voice scrambler, UT-109 provides secure communication in all modes
- Optional man down function, UT-124 (IC-F43TR)
- Military grade durability, tested to MIL-STD 810
- Multiple scan mode
- Dynamic Talk Around
- Built-in audio compander (IC-F43TR only)
- Dead beat disable, ASID text, and more...



IC-F43TR (10 Keypad version)



UTILIZING THE ADVANTAGES OF THE MDC

PTT ID*

The radio automatically sends its own ID number when the PTT button is pushed or released. Everyone in the system will know who is calling.

SelCall (Selective Call)*

In the MDC 1200 system, each radio has a unique ID number to make a selective call. The radio memorizes alias names and ID numbers may be used in the table.

Call alert*

The call alert function allows you to send a beep sound instead of a voice call.

Status*

You can set up to 16 conditions such as "on duty", "at lunch" or "in route" and send your status to another unit or the dispatch. You can also request* to send a status message from other unit to know their current status.

Message*

You can send and receive a preprogrammed text message instead of voice. 16 message codes are programmable. It improves channel efficiency by sending messages in digital format.

Emergency function*

The emergency call function allows you to send an emergency signal until the dispatch acknowledges the emergency signal. If the dispatch acknowledges an emergency message, the dispatcher can make the radio transmit whatever the radio microphone picks up for a preprogrammed period.

Radio stun and revive*

The radio stun function disables a lost or stolen radio over the air, eliminating security threats from undesired listeners. When the radio receives the stun command, all functions will be locked out until the revive command is received. The radio* can also send radio stun and revive commands.

Other features

- Radio check function* allows you to verify if another radio is within communication range
- Up to 5 different combinations of MDC profiles are available* in a radio
- External output* turns on a connected external device such as a siren or alarm strobe light, when it receives a selective call, call alert or emergency call
- Call log* displays the received call history including type of call, caller name and called time
- Emergency man down (optional UT-124/R required) and lone worker functions*
- * Depending on models, some MDC functions are not available. Please see the MDC function chart for details.



VHF MOBILE TRANSCEIVERS

IC-F1821/D UHF MOBILE TRANSCEIVERS

F2821/D



VHF MOBILE TRANSCEIVERS

IC-F1721/D UHF MOBILE TRANSCEIVERS

IC-F2721/D



IC-F5061/D -F5063

F6061/D



VHE MOBILE TRANSCEIVERS

-F5021 -F5023/H

-F6021 -F6023/H



IC-F121S -F111S

UHF MOBILE TRANSCEIVERS

-F221S -F211S

1200 SYSTEM





MDC function chart

| | IC-F70T/S,DT/DS IC-F80T/S,DT/DS | IC-F3161T/S,DT/DS IC-F4161T/S,DT/DS | IC-F50V IC-F60V | IC-F50 IC-F60 | IC-F33GT/GS IC-F43GT/GS | IC-F3021T/S IC-F4021T/S | IC-F14/S IC-F24/S | IC-F1821/D IC-F2821/D | IC-F1721/D IC-F2721/D | IC-F5061/D,F5063 IC-F6061/D,F6063 | | IC-F121S/F111S IC-F221S/F211S |
|----------------------|------------------------------------|--|--------------------|------------------|----------------------------|----------------------------|----------------------|--------------------------|--------------------------|--------------------------------------|-------------------|----------------------------------|
| PTT ID | Tx/Rx | Tx/Rx | Tx/Rx | Tx/Rx | Tx/Rx | Tx/Rx | Tx only | Tx/Rx | Tx/Rx | Tx/Rx | Tx/Rx | Tx only |
| Selcall | Tx/Rx | Tx/Rx | Tx/Rx | Tx/Rx | Tx/Rx | | | Tx/Rx | Tx/Rx | Tx/Rx | | |
| Call Alert | Tx/Rx | Tx/Rx | Tx/Rx | Tx/Rx | Tx/Rx | | | Tx/Rx | Tx/Rx | Tx/Rx | | |
| Status Message | Tx/Rx | Tx/Rx | Tx only | Tx only | Tx only | | | Tx/Rx | Tx/Rx | Tx/Rx | | |
| Status Request | Tx/Rx | Tx/Rx | Rx only | Rx only | Rx only | | | Tx/Rx | Tx/Rx | Tx/Rx | | |
| Message | Tx/Rx | Tx/Rx | Tx only | Tx only | Tx only | | | Tx/Rx | Tx/Rx | Tx/Rx | | |
| Emergency | Tx/Rx | Tx/Rx | Tx/Rx | Tx/Rx | Tx/Rx | Tx/Rx (No Ack) | Tx only | Tx/Rx | Tx/Rx | Tx/Rx | Tx/Rx (No Ack) | Tx only |
| Radio Check | Tx/Rx | Tx/Rx | Tx/Rx | Tx/Rx | Tx/Rx | Rx only | | Tx/Rx | Tx/Rx | Tx/Rx | Rx only | |
| Stun/Revive | Tx/Rx | Tx/Rx | Rx only | Rx only | Rx only | Rx only | | Tx/Rx | Tx/Rx | Tx/Rx | Rx only | |
| Call Log | Available | Available | | | | | | Available | Available | Available | | |
| Man Down Function | UT-124 | UT-124R | | | UT-124 | UT-124R | UT-124 | | | | | |
| Lone Worker Function | | Available | Available | | | Available | | | | Available | Available | |
| External Out | | | | | | | | Available | Available | Available | Available | |







IC-F3023GT/GS

IC-F4021GT/GS IC-F4023GT/GS

UHF HANDHELD TRANSCEIVERS



IC-F33GT/GS UHF HANDHELD TRANSCEIVERS IC-F43GT/GS

> VHF HANDHELD TRANSCEIVERS IC-F50V IC-F50

> > UHF HANDHELD TRANSCEIVERS

IC-F60V IC-F60



VHF HANDHELD TRANSCEIVERS IC-F3161DT/DS IC-F3161T/S IC-F3163T/S

IC-F4161DT/DS IC-F4161T/S IC-F4163T/S



IC-F70DT/DS IC-F70T/S

UHF HANDHELD TRANSCEIVERS IC-F80DT/DS IC-F80T/S

OPTIONS FOR HANDHELD TRANSCEIVERS

| | | | | В | ATTERY PACK | S | | | |
|--|---|----------|---|--|--|--|---|---|--|
| MODEL NAME | BP-209N (Ni-Cd) 7.2V/1100mAh BP-222N (Ni-Cd) 7.2V/600mAh | _ | BP-227 (Li-Ion) 7.4V/1850mAh (min.) 1950mAh (typ.) | BP-227FM 7.4V/1850mAh (min.) 1950mAh (typ.) (For I/S models) | BP-230N (Li-lon) 7.4V/950mAh (min.) 980mAh (typ.) | BP-232N (Li-lon) 7.4V/1900mAh (min.) 2000mAh (typ.) | BP-253 (Li-lon) 7.4V/1570mAh (min.) 1650mAh (typ.) | BP-254 (Li-lon) 7.4V/2900mAh (min.) 3040mAh (min.) | BP-254FM (Li-lon) 7.4V/2900mAh (min.) 3040mAh (min.) (For I/S models) |
| | | | | | THE STATE OF THE S | On the second se | | | |
| IC-F9011T/S/B, IC-F9021T/S/B, IC-F9023T/S/B | | | | | | | | V | |
| IC-F70DT/DS, IC-F70T/S IC-F80DT/DS, IC-F80T/S | | | | | | | ~ | ~ | (I/S models only) |
| IC-F3161DT/DS, IC-F3161T/S, IC-F3163T/S IC-F4161DT/DS, IC-F4161T/S, IC-F4163T/S | | | | | V | ~ | | | |
| IC-F50V, IC-F60V | | | V | | | | | | |
| IC-F50, IC-F60 | | | V | (I/S models only) | | | | | |
| IC-F33GT/GS, IC-F43GT/GS | | | | | \ | / | | | |
| IC-F3021T/S, IC-F3023T/S IC-F4021T/S, IC-F4023T/S | | | | | V | ~ | | | |
| IC-F14/S, IC-F24/S | | | | | / | V | | | |
| IC-F11/S, IC-F21/S | V | V | | | | | | | |
| IC-F43TR | | | | | / | / | | | |

| | | BATTER | Y CASES | | | | CHARGERS | | |
|--|----------------------------|--|---|-----------------------------|--|--------------------------------|--------------------------|---------------------------|---------------------------|
| MODEL NAME | BP-208N AA(LR6)×6 cells | BP-226 AA(LR6)×5 cells Equivalent to IPX4 water resistance. | BP-237 AA(LR6)×6 cells Equivalent to IPX4 water resistance. | BP-240 AAA(LR03)×6 cells | BC-119N Rapid charger | BC-121N Rapid multi-charger | BC-144N Rapid charger | BC-146 Regular charger | BC-152 Regular charger |
| | | The same of the sa | | | Post many many many many many many many many | | i i | | |
| IC-F9011T/S/B, IC-F9021T/S/B, IC-F9023T/S/B | | | V | | (AD-110 is required) | (AD-110 is required) | | | |
| IC-F70DT/DS, IC-F70T/S IC-F80DT/DS, IC-F80T/S | | | V | | (AD-110 is required) | (AD-110 is required) | | | |
| IC-F3161DT/DS, IC-F3161T/S, IC-F3163T/S IC-F4161DT/DS, IC-F4161T/S, IC-F4163T/S | | | | V | (AD-106 is required) | (AD-106 is required) | | | |
| IC-F50V, IC-F60V | | V | | | (AD-100 is required) | (AD-100 is required) | | | V |
| IC-F50, IC-F60 | | V | | | (AD-100 is required) | (AD-100 is required) | | | V |
| IC-F33GT/GS, IC-F43GT/GS | | | | V | (AD-106 is required) | (AD-106 is required) | | | |
| IC-F3021T/S, IC-F3023T/S IC-F4021T/S, IC-F4023T/S | | | | V | (AD-106 is required) | (AD-106 is required) | | | |
| IC-F14/S, IC-F24/S | | | | V | (AD-106 is required) | (AD-106 is required) | | | |
| IC-F11/S, IC-F21/S | V | | | | (AD-94 or AD-101 is required) | (AD-94 or AD-101 is required) | / | V | |
| IC-F43TR | | | | V | (AD-106 is required) | (AD-106 is required) | | | |

| | | CHARGERS | | | CHARGER | ADAPTERS | | AC ADA | APTERS |
|--|-------------------------|---------------------------|-------------------------|----------------------------|----------------------------|----------------------------|----------------------------|----------------------------|-------------------------------|
| MODEL NAME | BC-160 Rapid charger | BC-171 Regular charger | BC-190 Rapid charger | AD-100 | AD-101 or AD-94 | AD-106 | AD-110 | BC-145 *1 16V/1A | BC-147 *1 12V/200mA |
| | | | | | | | | | |
| IC-F9011T/S/B, IC-F9021T/S/B, IC-F9023T/S/B | | | | | | | (Use with BC-119N/BC-121N) | (Use with BC-119N) | |
| IC-F70DT/DS, IC-F70T/S IC-F80DT/DS, IC-F80T/S | | | | | | | (Use with BC-119N/BC-121N) | (Use with BC-119N) | |
| IC-F3161DT/DS, IC-F3161T/S, IC-F3163T/S IC-F4161DT/DS, IC-F4161T/S, IC-F4163T/S | V | V | | | | (Use with BC-119N/BC-121N) | | (Use with BC-160/BC-119N) | (Use with BC-171) |
| IC-F50V, IC-F60V | | | V | (Use with BC-119N/BC-121N) | | | | (Use with BC-119N/BC-190) | (Use with BC-152) |
| IC-F50, IC-F60 | | | V | (Use with BC-119N/BC-121N) | | | | (Use with BC-119N/BC-190) | (Use with BC-152) |
| IC-F33GT/GS, IC-F43GT/GS | V | V | | | | (Use with BC-119N/BC-121N) | | (Use with BC-160/BC-119N) | (Use with BC-171) |
| IC-F3021T/S, IC-F3023T/S IC-F4021T/S, IC-F4023T/S | V | V | | | | (Use with BC-119N/BC-121N) | | (Use with BC-160/BC-119N) | (Use with BC-171) |
| IC-F14/S, IC-F24/S | V | V | | | | (Use with BC-119N/BC-121N) | | (Use with BC-160/BC-119N) | (Use with BC-171) |
| IC-F11/S, IC-F21/S | | | | | (Use with BC-119N/BC-121N) | | | (Use with BC-144N/BC-119N) | (Use with BC-146) |
| IC-F43TR | V | V | | | | (Use with BC-119N/BC-121N) | | (Use with BC-160/BC-119N) | (Use with BC-171) |

 $^{^{\}star 1}$ BC-145/BC-147SA for 120V AC. $\,$ SE for 230V AC. $\,$ SV for 240V AC $\,$

: Applicable

: Not applicable

OPTIONS FOR HANDHELD TRANSCEIVERS

| | AC ADAPTERS | | | | SPEAKER-MI | CROPHONES | | | |
|--|--------------------|----------|----------------------------|----------|-----------------|--|--|---------------------------------------|----------------|
| MODEL NAME | BC-157 12V/6.6A | HM-1315C | HM-138 IPX7, waterproof | HM-158L | HM-159L/SC | HM-168 IPX7, waterproof HM-168IS (For IS models) | HM-169 IP57, dust protected and waterproof | HM-170GP With GPS receiver IPS7 | HM-184 IP57 |
| IC-F9011T/S/B, IC-F9021T/S/B, IC-F9023T/S/B | (Use with BC-121N) | | | | | | | | V |
| IC-F70DT/DS, IC-F70T/S IC-F80DT/DS, IC-F80T/S | (Use with BC-121N) | | ✓ | | | ~ | / | | |
| IC-F3161DT/DS, IC-F3161T/S, IC-F3163T/S IC-F4161DT/DS, IC-F4161T/S, IC-F4163T/S | (Use with BC-121N) | V | | | (HM-159SC only) | (HM-168 only) | V | V | |
| IC-F50V, IC-F60V | (Use with BC-121N) | | V | | | (HM-168 only) | V | V | |
| IC-F50, IC-F60 | (Use with BC-121N) | | V | | | (HM-168 only) | V | / | |
| IC-F33GT/GS, IC-F43GT/GS | (Use with BC-121N) | | | / | (HM-159L only) | | | | |
| IC-F3021T/S, IC-F3023T/S IC-F4021T/S, IC-F4023T/S | (Use with BC-121N) | | | ~ | (HM-159L only) | | | | |
| IC-F14/S, IC-F24/S | (Use with BC-121N) | | | / | (HM-159L only) | | | | |
| IC-F11/S, IC-F21/S | (Use with BC-121N) | | | V | (HM-159L only) | | | | |
| IC-F43TR | (Use with BC-121N) | | | / | (HM-159L only) | | | | |

| | SDEVKED WI | CROPHONES | | HEAD | CETC | | VOX/PTT CASE | EARPHONE | EARPHONE ADAPTER |
|--|--------------|------------|----------|---|--------------------------------------|------------------------------------|-------------------|------------------|-------------------|
| | SFLAKEN-IVII | CHOFIIONES | | IILAD | SLIS | | VOMFIT CASE | LANFIIONL | LANFIIONE ADAFTEN |
| MODEL NAME | HM-153L | HM-166L | HS-51 | HS-94 Earhook type with boom microphone | HS-95 Behind-the-head type | HS-97 Throat microphone type | VS-1L/SC/MC | SP-13 | AD-52 |
| | ~ | S | | 0 | | 6 | O | of a | (and) |
| IC-F9011T/S/B, IC-F9021T/S/B, IC-F9023T/S/B | | | | (Use with VS-1MC) | (Use with VS-1MC) | (Use with VS-1MC) | (Use with VS-1MC) | | |
| IC-F70DT/DS, IC-F70T/S IC-F80DT/DS, IC-F80T/S | | | | (Use with VS-1SC) | (Use with VS-1SC) | (Use with VS-1SC) | (Use with VS-1SC) | | |
| IC-F3161DT/DS, IC-F3161T/S, IC-F3163T/S IC-F4161DT/DS, IC-F4161T/S, IC-F4163T/S | | | | (Use with VS-1SC) | (Use with VS-1SC) | (Use with VS-1SC) | (Use with VS-1SC) | (Use with AD-52) | ~ |
| IC-F50V, IC-F60V | | | | (Use with VS-1SC) | (Use with VS-1SC) | (Use with VS-1SC) | (Use with VS-1SC) | | |
| IC-F50, IC-F60 | | | | | | | | | |
| IC-F33GT/GS, IC-F43GT/GS | V | V | | (Use with VS-1L) | (Use with VS-1L) | (Use with VS-1L) | (Use with VS-1L) | / | |
| IC-F3021T/S, IC-F3023T/S IC-F4021T/S, IC-F4023T/S | V | V | | (Use with VS-1L) | (Use with VS-1L) | (Use with VS-1L) | (Use with VS-1L) | V | |
| IC-F14/S, IC-F24/S | V | V | | (Use with VS-1L) | (Use with VS-1L) | (Use with VS-1L) | (Use with VS-1L) | / | |
| IC-F11/S, IC-F21/S | V | V | / | (Use with VS-1L) | (Use with VS-1L) | (Use with VS-1L) | (Use with VS-1L) | \ | |
| IC-F43TR | / | V | | (Use with VS-1L) | (Use with VS-1L) | (Use with VS-1L) | (Use with VS-1L) | / | |

| | | | BELT | CLIPS | | | LEATHER BE | LT HANGERS | CIGARETTE LIGHTER CABLE |
|--|----------------------|----------------------|-------------------------|-------------------------|--------------------------|--------------------------|--|----------------------|-------------------------|
| MODEL NAME | MB-86 Swivel type | MB-93 Swivel type | MB-94 Alligator type | MB-98 Alligator type | MB-103 Alligator type | MB-115 Alligator type | MB-96N Swivel type. MB-86 and MB-93 swivel joints supplied. | MB-96F Fixed type | CP-17L |
| | | | | | | | | | |
| IC-F9011T/S/B, IC-F9021T/S/B, IC-F9023T/S/B | | | | | | V | | | (Use with BC-119N) |
| IC-F70DT/DS, IC-F70T/S IC-F80DT/DS, IC-F80T/S | | ~ | ~ | | | | ~ | ~ | (Use with BC-119N) |
| IC-F3161DT/DS, IC-F3161T/S, IC-F3163T/S IC-F4161DT/DS, IC-F4161T/S, IC-F4163T/S | | V | V | | | | V | ~ | (Use with BC-119N) |
| IC-F50V, IC-F60V | V | | | V | | | V | / | (Use with BC-119N) |
| IC-F50, IC-F60 | / | | | V | | | V | V | (Use with BC-119N) |
| IC-F33GT/GS, IC-F43GT/GS | | / | / | | | | / | / | (Use with BC-119N) |
| IC-F3021T/S, IC-F3023T/S IC-F4021T/S, IC-F4023T/S | | V | V | | | | V | V | (Use with BC-119N) |
| IC-F14/S, IC-F24/S | | V | V | | | | V | V | (Use with BC-119N) |
| IC-F11/S, IC-F21/S | V | | | | / | | V | V | (Use with BC-119N) |
| IC-F43TR | | / | V | | | | V | / | (Use with BC-119N) |

OPTIONS FOR HANDHELD TRANSCEIVERS

| | DC POWE | R CABLES | ZONE COP | Y CABLES | | ANTENNAS | | CUT AN | TENNAS |
|--|----------------------------|--------------------|--|--|--|---|--|--|--|
| MODEL NAME | OPC-656 12-20V DC CABLE | OPC-515L | OPC-1533 Handheld to mobile OPC-1536 Handheld to handheld | OPC-1871 Handheld to mobile OPC-1870 Handheld to handheld | FA-SC25V 136-150MHz FA-SC55V 150-174MHz FA-SC25U 400-430MHz FA-SC57U 430-470MHz FA-SC57U 470-520MHz | FA-S24V 136-150MHz FA-S59V 150-174MHz FA-S27U 400-470MHz FA-S56U 450-520MHz FA-S74U 490-520MHz | FA-S25V 136-148MHz FA-S65V 148-160MHz FA-S66V 160-174MHz FA-S30U 380-430MHz FA-S58U 430-470MHz FA-S75U 470-520MHz | FA-SC61VC 136-174MHz FA-SC61UC 380-520MHz | FA-S67VC 136-174MHz FA-S76UC 380-520MHz |
| IC-F9011T/S/B, IC-F9021T/S/B, IC-F9023T/S/B | (Use with BC-121N) | (Use with BC-119N) | | V | | | V | | V |
| IC-F70DT/DS, IC-F70T/S IC-F80DT/DS, IC-F80T/S | (Use with BC-121N) | (Use with BC-119N) | ~ | | ~ | | | ~ | |
| IC-F3161DT/DS, IC-F3161T/S, IC-F3163T/S IC-F4161DT/DS, IC-F4161T/S, IC-F4163T/S | (Use with BC-121N) | (Use with BC-119N) | | | V | | | V | |
| IC-F50V, IC-F60V | (Use with BC-121N) | (Use with BC-119N) | | | | V | | | |
| IC-F50, IC-F60 | (Use with BC-121N) | (Use with BC-119N) | | | | V | | | |
| IC-F33GT/GS, IC-F43GT/GS | (Use with BC-121N) | (Use with BC-119N) | | | > | | | / | |
| IC-F3021T/S, IC-F3023T/S IC-F4021T/S, IC-F4023T/S | (Use with BC-121N) | (Use with BC-119N) | | | / | | | V | |
| IC-F14/S, IC-F24/S | (Use with BC-121N) | (Use with BC-119N) | | | / | | | V | |
| IC-F11/S, IC-F21/S | (Use with BC-121N) | (Use with BC-119N) | | | / | | | V | |
| IC-F43TR | (Use with BC-121N) | (Use with BC-119N) | | | \ | | | / | |

| | STUBBY A | NTENNAS |
|--|---|--|
| MODEL NAME | FA-SC56VS 150-162MHz FA-SC57VS 160-174MHz FA-SC73US 450-490MHz | FA-S62VS 150-162MHz FA-S63VS 160-174MHz FA-S57US 450-490MHz |
| IC-F9011T/S/B, IC-F9021T/S/B, IC-F9023T/S/B | | |
| IC-F70DT/DS, IC-F70T/S IC-F80DT/DS, IC-F80T/S | V | |
| IC-F3161DT/DS, IC-F3161T/S, IC-F3163T/S IC-F4161DT/DS, IC-F4161T/S, IC-F4163T/S | | V |
| IC-F50V, IC-F60V | | V |
| IC-F50, IC-F60 | V | |
| IC-F33GT/GS, IC-F43GT/GS | / | |
| IC-F3021T/S, IC-F3023T/S IC-F4021T/S, IC-F4023T/S | V | |
| IC-F14/S, IC-F24/S | V | |
| IC-F11/S, IC-F21/S | V | |
| IC-F43TR | / | |

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

OPTIONS FOR MOBILE TRANSCEIVERS AND REPEATERS

| | SEPARA | TION KITS | SEPARATION CABLES | | HAND MICI | ROPHONES | | DESKTOP MICROPHONE | INTERFACE CABLE |
|--|--------|-----------|--|----------|--------------------------------|----------------------------|---|--------------------|------------------------------|
| MODEL NAME | RMK-2 | RMK-3 | OPC-608 (8m; 26.2ft) OPC-726 (5m; 16.4ft) OPC-607 (3m; 9.8ft) OPC-609 (1.9m; 6.2ft) | HM-152 | HM-152T DTMF type keypad | HM-148G Heavy-duty type | HM-148T Heavy-duty type with DTMF keypad | SM-25 | OPC-822 PC to transceiver |
| IC-F9511T, IC-F9511S | V | | V | ~ | ~ | V | V | ~ | |
| IC-F9511HT | | | ' | / | ~ | ~ | ~ | ' | |
| IC-F1821/D, IC-F1721/D IC-F2821/D, IC-F2721/D | V | | V | V | V | V | V | V | |
| IC-F5061/D, IC-F5063 IC-F6061/D, IC-F6063 | | ✓ | ' | / | ✓ | V | V | ' | |
| IC-F520, IC-F521 IC-F620, IC-F621 | | | | / | V | V | V | V | / |
| IC-F5021, IC-F5023/H IC-F6021, IC-F6023/H | | | | V | V | V | ~ | ~ | |
| IC-F111S, IC-F121S IC-F211S, IC-F221S | | | | V | V | V | V | V | |
| IC-F620TR, IC-F621TR | | | | ~ | V | V | V | ~ | ~ |
| IC-FR5000, IC-FR6000 | | | | V | | | | V | |
| IC-FR3000, IC-FR4000 | | | | V | V | | | V | |

| | ACC C | ABLES | ZONE COF | Y CABLES | DC POWER CABLES | | EXTERNAL | SPEAKERS | |
|--|---------|----------|--|--|---|----------|----------|----------|----------|
| MODEL NAME | OPC-617 | OPC-1939 | Mobile to mobile OPC-1533 Mobile to handheld | OPC-1532 Mobile to mobile OPC-1871 Mobile to handheld | OPC-1132A (3m; 9.8ft) OPC-347 (7m; 23ft) | SP-5 | SP-10 | SP-22 | SP-30 |
| IC-F9511T, IC-F9511S | | | | / | / | V | V | V | |
| IC-F9511HT | | | | ✓ | | | | | V |
| IC-F1821/D, IC-F1721/D IC-F2821/D, IC-F2721/D | V | | / | | / | V | V | / | |
| IC-F5061/D, IC-F5063 IC-F6061/D, IC-F6063 | | | | | / | / | ~ | ' | |
| IC-F520, IC-F521 IC-F620, IC-F621 | V | | | | V | V | V | V | |
| IC-F5021, IC-F5023/H IC-F6021, IC-F6023/H | | ~ | | | V | V | V | ' | |
| IC-F111S, IC-F121S IC-F211S, IC-F221S | V | | | | ~ | V | V | V | |
| IC-F620TR, IC-F621TR | V | | | | / | V | / | ' | |
| IC-FR5000, IC-FR6000 | | | | | | | | V | |
| IC-FR3000, IC-FR4000 | | | | | | | | | |

| | MOUNTING | BRACKETS | CHANNEL MODULES | IDAS TRUNKING / NETWORK CONTROLLER |
|--|-----------------------------|---------------------------------|---|------------------------------------|
| MODEL NAME | MB-77 WALL MOUNT BRACKET | MB-78 19" RACK MOUNT BRACKET | UR-FR5000 (136–174MHz, 50W) UR-FR6000 | UC-FR5000 |
| | | | (400–470, 450–520MHz, 50W) | |
| IC-F9511T, IC-F9511S | | | | |
| IC-F9511HT | | | | |
| IC-F1821/D, IC-F1721/D IC-F2821/D, IC-F2721/D | | | | |
| IC-F5061/D, IC-F5063 IC-F6061/D, IC-F6063 | | | | |
| IC-F520, IC-F521 IC-F620, IC-F621 | | | | |
| IC-F5021, IC-F5023/H IC-F6021, IC-F6023/H | | | | |
| IC-F111S, IC-F121S IC-F211S, IC-F221S | | | | |
| IC-F620TR, IC-F621TR | | | | |
| IC-FR5000, IC-FR6000 | | | V | V |
| IC-FR3000, IC-FR4000 | V | V | | |

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

| ~ | : Applicable | : Not applicable |
|---|--------------|------------------|
| | | |

| | | | IC-F9011T/S/B | IC-F9021T/S/B IC-F9023T/S/B | IC-F70T/S IC-F70DT/DS | IC-F80T/S IC-F80DT/DS | IC-F3161DT/DS IC-F3161T/S IC-F3163T/S | IC-F4161DT/DS IC-F4161T/S IC-F4163T/S | IC-F50V | IC-F60V |
|---------|---------------------------------------|---------------------------------------|--------------------------------------|--------------------------------------|--------------------------------------|--------------------------------------|---|---|---|---|
| | Frequency cov (Varies accord | verage (Unit: MHz) ing to version) | 136–174 | 380–450 400–470 450–520 | 136–174 | 380–450 400–470 450–520 | 136–174 | 400–470 450–512 (USA) 450–520 (GEN) | 136–174 | 400–470 450–512 (USA) 450–520 (GEN) |
| | Number of ch | annels (Max.) | 512 ch/1 | 28 zones | 256 ch/3 | 32 zones | 512 ch/1 | 28 zones | 128 ch/ | 8 zones |
| GENERAL | Channel space | cing (Unit: kHz) | 12.5 (digital), 15/30 (analog) | 12.5 (digital), 12.5/25 (analog) | 12.5/25, 15/30 | 12.5/25 | 12.5/25, 15/30 6.25 (With UT-126H) | 12.5/25, 6.25 (With UT-126H) | 12.5/25, 15/30 | 12.5/25 |
| | PLL channel step (Unit: kHz) Tx High | | 2.5, | 3.125 | 2.5, 3.125 | 5, 6.25 | 2.5, 3.125 | | 2.5, 3.125 | 5, 6.25 |
| 9 | | Tx High | 2.2A | 2.1A | 2.2A | 2.4A | 1.5A | 1.8A | 1.8A | 1.8A |
| | Current drain | Stand-by | 300mA | 300mA | 150mA | 150mA | 150mA | 140mA | 85mA | 85mA |
| | Dimensions | Max. audio | 800mA | 800mA | 450mA | 450mA | 600mA | 600mA | 500mA | 500mA |
| | Dimensions (projections not | included; W×H×D) | | ′×41.8mm ₅×1²¹⁄₃₂ in | | 2×38mm ⁄32×1½ in | | 38.5mm ₂×1 ¹⁷ ⁄₃₂ in | 56×97× 2 ⁷ / ₃₂ ×3 ¹³ / | 36.4mm is×17/i₅ in |
| | Weight (approx | x.) | 533g; 1.17lb | (with BP-254) | 400g; 14.1oz | (With BP-253) | 340g; 12.0oz | With BP-232N) | 280/284g; 9.9/10.0o | z (With BP-227, V/U) |
| | RF output po | wer (High) | 6W | 5W | 5W | 4W | 5W | 5W | 5W | 4W |
| | Spurious emi | ssions | 75dB (typ.) | 80dB (typ.) | 70dB | (typ.) | 75dB | (typ.) | 70dB | (typ.) |
| | Adjacent chann | nel power (W/M) | 70/60dB (min., analog | g), 67dB (min., digital) | 70/60d | B (min.) | 80/70d | B (typ.) | 70/60dl | 3 (min.) |
| | Sensitivity (at | 12dB SINAD) | 0.25μV (ty 0.30μV (ty | p., analog) /p., digital) | 0.25µ\ | / (typ.) | 0.25μV (typ.) | | 0.25μ\ | / (typ.) |
| × | Adjacent char selectivity (W | | FM 80/70dB (typ.) P25 60dB (typ.) | FM 76/70dB (typ.) P25 60dB (typ.) | FM 80/73dB (typ.) P25 60dB (typ.) | FM 78/70dB (typ.) P25 60dB (typ.) | 75/68d | B (typ.) | 75/65d | B (typ.) |
| ~ | Spurious resp | onse rejection | 80dB | (typ.) | 80dB (typ.) | 75dB (typ.) | 70dE | (typ.) | 70dB | (typ.) |
| | Intermodulation | on rejection | 75dB | (typ.) | 75dB | (typ.) | 74dE | (typ.) | 74dB | (typ.) |
| | AF output pov (at 5% distortion | wer n with an 8Ω load) | 1000m | W (typ.) | 500m\ | V (typ.) | 500m\ | V (typ.) | 700mW (typ. 500mW (typ. | |

| | | | IC-F50 | IC-F60 | IC-F33GT/GS | IC-F43GT/GS | IC-F43TR | IC-F3021T/S IC-F3023T/S | IC-F4021T/S IC-F4023T/S |
|---------|--|---------------------------------------|----------------|---|----------------|---|--------------------|----------------------------|---|
| | Frequency cov (Varies accord | verage (Unit: MHz) ing to version) | 136–174 | 400–470 450–512 (USA) 450–520 (GEN) | 136–174 | 400–470 450–512 (USA) 450–520 (GEN) | 400–470 450–512 | 136–174 | 400–470 450–512 (USA) 450–520 (GEN) |
| | Number of ch | annels (Max.) | 128 ch/ | 8 zones | zones 256 ch/1 | | 250 (Conventional) | 128 ch/ | 8 zones |
| GENERAL | Channel spacing (Varies according PLL channel st | • | 12.5/25, 15/30 | 12.5/25 | 12.5/25, 15/30 | 12.5/25 | 12.5/25 | 12.5/25, 15/30 | 12.5/25 |
| 点 | PLL channel step (Unit: kHz) Tx High | | 2.5, 3.125 | 5, 6.25 | 2.5, 3.125 | 5, 6.25 | 5, 6.25 | 2.5, | 3.125 |
| 0 | | Tx High | 1.5A | 1.5A | 1.5A | 1.7A | 1.7A | 1.5A | 1.5A |
| | | | 85mA | 85mA | 85mA | 85mA | 85mA | 75mA | 75mA |
| | Rx Max. audio | | 300mA | 300mA | 300mA | 300mA | 300mA | 250mA | 250mA |
| | Dimensions (projections not | included; W×H×D) | | 36.4mm 16×17∕16 in | | 53×120×37mm 2³⁄₃₂×4²³⁄₃₂×1¹⁵∕₃₂ in | | | l×37mm ₃2×1¹5⅓2 in |
| | Weight (approx | x.) | 280g; 9.9oz (| With BP-227) | 340g | ; 12.0oz (With BP-2 | 232N) | 340g; 12.0oz (| With BP-232N) |
| | RF output po | wer (High) | 5W | 4W | 5W | 4W | 4W | 5W | 4W |
| × | Spurious emi | ssions | 70dB | (min.) | 80dB (typ.) | 70dB (typ.) | 70dB (typ.) | 80dB (typ.) | |
| | Adjacent chann | nel power (W/M) | 70/60dl | B (min.) | | 70/60dB (min.) | | 80/70dB (typ.) | 75/68dB (typ.) |
| | Sensitivity (at | 12dB SINAD) | 0.25μ\ | / (typ.) | | 0.25μV (typ.) | 0.25μV (typ.) | | |
| × | Adjacent charselectivity (Was Spurious resp | | 75/65d | B (typ.) | | 75/65dB (typ.) | | 75/65d | B (typ.) |
| 2 | | onse rejection | 70 | dB | | 70dB | | 70dB | (min.) |
| | Intermodulation | on rejection | 74dB | (typ.) | | 74dB (typ.) | | 75dB (typ.) | 74dB (typ.) |
| | AF output pov | wer n with an 8Ω load) | 500m\ | V (typ.) | | 500mW (typ.) | | 500m\ | N (typ.) |

| | | | IC-F14/S | IC-F24/S | IC-F11/S | IC-F21/S | |
|---------|--|---------------------------------------|---|---|-------------------------------|----------------------------------|--|
| | Frequency cov | verage (Unit: MHz) ing to version) | 136–174 | 400–470 450–512 (USA) 450–520 (GEN) | 146–174 | 400–430 440–470 | |
| | Number of ch | annels (Max.) | 16 ch (Rota 4 ch (Max. si | | 16 ch (Rota 4 ch (Max. sii | | |
| GENERAL | Channel spacing (Unit: kHz) (Varies according to version) PLL channel step (Unit: kHz) | | 12.5/25, 15/30 | 12.5/25 | 12.5/25, 15/30 | 12.5/25 | |
| Ä | PLL channel | step (Unit: kHz) | 2.5, 3.125 | 5, 6.25 | 2.5, 3.125 | 5, 6.25 | |
| 0 | Tx High | | 1.5A | 1.6A | 1.6A | 1.6A | |
| | Current drain | Stand-by | 70mA | 70mA | 70mA | 70mA | |
| | | Max. audio | 300mA | 300mA | 250mA | 250mA | |
| | Dimensions (projections not | included; W×H×D) | 53×120× 2 ³ / ₃₂ ×4 ²³ / ₅ | x42.4mm 32×17∕16 in | | ×37mm ×1 ¹⁵ ⁄32 in | |
| | Weight (approx | c.) | 300g; 10.6oz (| With BP-232N) | 310g; 10.9oz (With BP-209N) | | |
| | RF output pov | wer (High) | 5W | 4W | 5W | 4W | |
| × | Spurious emis | ssions | 80dB | (typ.) | 73dBc (typ.) | | |
| | Adjacent chann | el power (W/M) | 80/70dB (typ.) | 75/68dB (typ.) | 70/60dB (typ.) | 75/68dB (typ.) | |
| | Sensitivity (at | 12dB SINAD) | 0.25μ\ | / (typ.) | 0.25μ\ | / (typ.) | |
| × | Adjacent char selectivity (W/ | | 75/65d | B (typ.) | 70/65d | B (typ.) | |
| ~ | Spurious response rejection | onse rejection | 70dB | (min.) | 70dB | (typ.) | |
| | | on rejection | 74dB | (typ.) | 70dB | (typ.) | |
| | AF output pov (at 5% distortion | ver n with an 8Ω load) | 500m\ | V (typ.) | 500m\ | V (typ.) | |

FUNCTION COMPARISON AND INTERNAL UNIT OPTIONS

| | | IC-F9011T/S/B IC-F9021T/S/B IC-F9023T/S/B | IC-F70DT/DS IC-F70T/S IC-F80DT/DS IC-F80T/S | IC-F3161DT/DS IC-F3161T/S IC-F3163T/S IC-F4161DT/DS IC-F4161T/S IC-F4163T/S | IC-F50V IC-F60V | IC-F50 IC-F60 | IC-F33GT/GS IC-F43GT/GS | IC-F3021T/S IC-F3023T/S IC-F4021T/S IC-F4023T/S | IC-F14/S IC-F24/S | IC-F11/S IC-F21/S | IC-F43TR |
|-------------|--------------|---|--|--|--------------------|------------------|----------------------------|--|------------------------|----------------------|---------------------------|
| Number of | option slots | 1 | 1 | 2*2 | - | - | 1 | 1 | 1 | - | 1 |
| CTCSS/ | encoder | ~ | ~ | ~ | ~ | V | V | ~ | ~ | V | ~ |
| DTCS | decoder | V | ~ | ~ | ~ | V | V | V | ~ | V | ~ |
| 0 T | encoder | ✓ * ⁷ | ~ | ~ | V | V | V | ~ | ~ | V | - |
| 2-Tone | decoder | ✓ * ⁷ | V | ~ | ~ | V | V | V | ~ | V | - |
| F T | encoder | - | ~ | ~ | V | V | ~ | ~ | V | V | - |
| 5-Tone | decoder | _ | V | ~ | V | V | ~ | V | V | V | _ |
| DTMF auto | dial | ~ | V | ~ | V | V | V | ~ | ~ | V | V |
| DTMF deco | oder | _ | ✓*³ | ✓ *³ | | - | UT-108 | UT-108R | UT-108 | ✓ *3 | UT-108 |
| ., . | Inversion | ~ | V | V | V | ~ | ~ | - | - | - | - |
| Voice | Non-rolling | _ | UT-109 (Version 02) | UT-109R | _ | ✓ * ⁴ | UT-109 (Version 02) | UT-109R | UT-109 (Version 01) | _ | UT-109 (Version 02) |
| | Rolling | _ | UT-110 (Version 02) | UT-110R | _ | V *4 | UT-110 (Version 02) | UT-110R | UT-110 (Version 01) | _ | UT-110 *5 (Version 02) |
| APCO P25 | digital | V | ✓ * ⁶ | - | - | - | - | - | - | - | - |
| APCO P25 | trunking | ~ | - | - | - | - | - | - | - | - | - |
| AES encry | ption | UT-125 | EX-2785 J03 | - | - | - | - | - | - | - | - |
| DES encry | ption | | EX-2785 J02 | - | - | - | - | - | - | - | - |
| FIPS 140-2 | Level 1 | ✓ *4 *7 | ✓ * ⁴ | - | - | - | - | - | - | - | - |
| IDAS digita | al | - | - | UT-126H | - | _ | - | - | - | - | - |
| IDAS digita | al trunking | - | _ | UT-126H | - | _ | - | - | - | - | - |
| MDC 1200 | | ✓ * ⁷ | V | ~ | V | V *4 | V *4 | V | V | - | - |
| LTR™ truni | king | - | - | ~ | - | - | - | - | - | - | ~ |
| PassPort | | - | - | - | - | - | - | - | - | - | ~ |
| Man Down | function | UT-124R | UT-124 | UT-124R | - | - | UT-124 | UT-124R | UT-124 | - | UT-124 |
| Intrinsical | y safe | - | ✓ * ⁴ | - | - | V *4 | - | - | - | - | - |
| Vibration a | lert | - | - | - | ✓ * ⁴ | - | - | - | - | - | - |
| Voice reco | rder | - | - | - | ✓ *4 | - | - | - | - | - | - |

^{*1} Inversion type voice scrambler is not compatible with UT-109/UT-110 voice scrambler. *2 One for UT-126H digital unit and one for another option unit. *3 Possible as a kind of 5-Tone format.

^{**} Depending on version. *5 Available in conventional mode only. *6 UT-120 (version 01) required for IC-F70T/S, F80T/S. *7 Available later.

| | | | IC-F9511T IC-F9511S | IC-F9511HT | IC-F1821D, F1821 IC-F1721D, F1721 | IC-F2821D, F2821 IC-F2721D, F2721 | IC-F5061D IC-F5061, F5063 | IC-F6061D IC-F6061, F6063 | |
|---------|--|-------------------------------------|--|---|--------------------------------------|--------------------------------------|---------------------------------|--|--|
| | Frequency cov | verage (Unit: MHz) | 136–174 | 136–174 | 136–174 | 400–470 450–512 | 136–174 | 400–470 450–512 (USA) 450–520 (GEN) | |
| | Number of ch | annels (Max.) | 512 ch/1: | 28 zones | 256 ch/3 | 32 zones | 512 ch/1 | 28 zones | |
| GENERAL | Channel space (Varies accord | cing (Unit: kHz) ing to version) | 12.5 (d 15/30 (| ligital), analog) | 15/30 | 12.5/25 | 12.5/25, 15/30 6.25 (option) | 12.5/25 6.25 (option) | |
| | PLL channel | step (Unit: kHz) | 2.5, 3 | 3.125 | 2.5, 3.125 | 5, 6.25 | 2.5, 3.125 | 2.5, 3.125 | |
| 0 | | Tx High | 11A | 22A | 14A | 14A | 14A/7A(50/25W) | 14A/7A(45/25W) | |
| | Current drain | Stand-by | 350mA | 400mA | 600mA | 600mA | 300mA | 300mA | |
| | | Max. audio | 1000mA | 3.0A | 1.2A | 1.2A | 1.2A | 1.2A | |
| | Dimensions (projections not | included; W×H×D) | 175×45×170mm 6½×1 ²⁵ / ₃₂ ×6 ¹¹ / ₁₆ in | 175×60×279mm 6 ⁷ / ₈ ×2 ³ / ₈ ×10 ³¹ / ₃₂ in | | ×170mm 2×6 ¹¹ /16 in | | <150mm ₂ ×5 ²⁹ / ₃₂ in | |
| | Weight (approx | x.) | 1.5kg; 3.3lb | 4.7kg; 10.4lb (With controller) | 1.5kg | ; 3.3lb | 1.3kg | ; 2.9lb | |
| J | RF output po | wer (High) | 50W | 110W | 50W | 45W | 50W (F5061/D) 25W (F5063) | 45W (F6061/D) 25W (F6063) | |
| × | Spurious emi | ssions | 70dB (min.) | 70dB (typ.) | 75dB | (typ.) | 75dB | (typ.) | |
| | Adjacent chann | nel power (W/N) | 70/60dB (min., analo | g) 67dB (min., digital) | 70/60dl | B (min.) | 70/60dl | B (min.) | |
| | Sensitivity (at | 12dB SINAD) | 0.25μV (typ., analog) 0.25μV (typ., digital) | 0.25μV (typ., analog) 0.30μV (typ., digital) | 0.25μV (typ.) | 0.3μV (typ.) | | p. analog), jital at 5% BER) | |
| ă | Adjacent chann | el selectivity (W/N) | FM 85/77dB (typ. |) P25 63dB (typ.) | FM 80/75dB (typ. |), P25 73dB (typ.) | 85/75d | B (typ.) | |
| ~ | Spurious resp | oonse rejection | 85dB | (min.) | 80dB | (typ.) | 90dB | (typ.) | |
| | Intermodulation | on rejection | 78dB | (typ.) | FM 77/75dB (typ. |), P25 77dB (typ.) | 77dB (typ.) | | |
| | Intermodulation rejection AF output power (at 10% distortion with an 4Ω load) | | 4W (typ.), 22W (typ., External audio) | 15W (3% Dist., External audio) | 4W (22W (typ., Ex | typ.), xternal audio) | 4W (typ.) | | |

| | | | IC-F520 IC-F521 | IC-F620 IC-F621 | IC-F620TR IC-F621TR | IC-F5021 IC-F5023/H | IC-F6021 IC-F6023/H | IC-F111S IC-F121S | IC-F211S IC-F221S | |
|----------|---|--|--------------------------|--|------------------------------|------------------------------------|---|----------------------|--------------------------|--|
| | 1 ' ' | verage (Unit: MHz) ling to version) | 136–174 | 440-490 400-430 (25W) 480-520 (25W GEN) 480-512 (25W USA) | | 136–174 | 400–470 450–512 (USA) 450–520 (GEN) | 136–174 | 440–490 400–430 (GEN) | |
| | Number of ch | nannels (Max.) | 256 ch/1 | 16 zones | 250 (Conventional) | 128 ch/ | 8 zones | 8 ch/2 | zones | |
| GENERAL | | cing (Unit: kHz) ling to version) | 12.5/25, 15/30 | 12.5/25 | 12.5/25 | 12.5/25, 15/30 | 12.5/25 | 12.5/25, 15/30 | 12.5/25 | |
| Ä | PLL channel | step (Unit: kHz) | 2.5, 3.125 | 5, 6.25 | 5, 6.25 | 2.5, 3.125 | | 2.5, 3.125 | 5, 6.25 | |
| 0 | | Tx High | 14A/7A (50/25W) | 13A/7A (45/25W) | 13A/7A (45/25W) | 14A/7A (50/25W) | 14A/7A (45/25W) | 14A | 13A | |
| | Current drain Rx | | 300mA | 300mA | 300mA | 300mA | 300mA | 300mA | 300mA | |
| | Max. audio | | 1.2A | 1.2A | 1.2A | 1.2A | 1.2A | 1.2A | 1.2A | |
| | | t included; W×H×D) | | 140×40×170mm 5½×1½×6¹¹/₁6 in | | | 2×1%6×61%2 in (50/45W) %2×1%6×45% in (25W) | | 167.5mm 6×6¹⅓₂ in | |
| | Weight (appro | x.) | | 1.2kg; 2.6lb | | 1.1kg; 2.4 lb (50/45V | V), 0.8kg; 1.8lb (25W) | 1.1kg | ; 2.4lb | |
|) | RF output po | wer (High) | 50W (F521) 25W (F520) | 45W (F621) 25W (F620) | 45W (F621TR) 25W (F620TR) | 50W (F5021, F5023H) 25W (F5023) | 45W (F6021, F6023H) 25W (F6023) | 50W | 45W | |
| T | Spurious emi | issions | | 70dB (typ.) | | 70dB (typ.) | | 70dB (typ.) | | |
| | Adjacent chan | nel power (W/N) | | 70/60dB (min.) | | 70/60d | B (min.) | 70/60dl | 3 (min.) | |
| | Adjacent channel power (W/N) Sensitivity (at 12dB SINAD | | | 0.25μV (typ.) | | 0.25μ\ | V (typ.) | 0.25μ\ | / (typ.) | |
| × | · | nel selectivity (W/N) | | 75/65dB (typ.) | | 75/65d | B (typ.) | 75/65d | B (typ.) | |
| 2 | | ponse rejection | | 75dB | | 85dB | (typ.) | 75 | dB | |
| | Intermodulati | on rejection | 74dB (typ.) | 75dB (typ.) | 75dB (typ.) | 75dB | (typ.) | 74dB (typ.) | 75dB (typ.) | |
| | AF output po (at 5% distortio | wer n with an 8Ω load) | 4W (typ.) | | | 4W | (typ.) | 4W (typ.) | | |

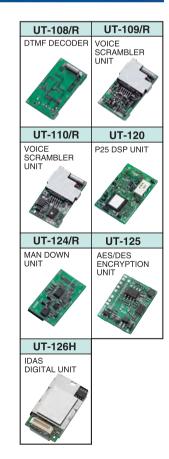
| | | | | IC-FR5000 | IC-FR6000 | IC-FR3000 | IC-FR4000 | |
|---------|--|--|----------------|--------------------------------|---------------------------------|--------------------|-------------------------------|--|
| | Frequency co | | ` ′ | 136–174 | 400–470 450–520 | 150–174 148–172 | 400–430 430–450 450–480 | |
| | Number of ch | Number of channels (Max.) Channel spacing (Unit: kHz) (Varies according to version) PLL channel step (Unit: kHz) | els (Max.) | 32 | ch | 32 | ch | |
| GENERAL | | | | 6.25/12.5/25 | or 7.5/15/30 | 12. | 5/25 | |
| 필 | PLL channel | LL channel step (Unit: kHz) | | 2.5, 3.125 | 2.5, 3.125 | 2.5*2, 5, 6.25 | 5, 6.25 | |
| 8 | Power supply requirement | | uirement | 13.6 | V DC | 13.6V DC, 100-120V | AC*3 or 220–240V AC*3 | |
| | Current drain Dimensions (projections not | Tx | High | 15A | 15A | 15A | 20A | |
| | | l Rx r | | 400mA* ¹ | 400mA*1 | 1A (typ.) | 1A (typ.) | |
| | | | Max. audio | 1900mA | 1900mA | 2A (typ.) | 2A (typ.) | |
| | | t inclu | ded; W×H×D) | 483×88> 19½2×3½ | <260mm ∕₃2×10¼ in | | ×360mm ⁄32×14¾16 in | |
| | Weight (appro | x.) | | 5.6kg; | 12.3lb | 12kg; 26.4lb | | |
| | RF output po | wer (| High) | 50 | W | 50 |)W | |
| × | Spurious emi | ssion | ıs | 80dB | (typ.) | 70 | dB | |
| | Adjacent chann | nel po | wer (W/M) | 73/67d | B (typ.) | 70/6 | 60dB | |
| | Sensitivity (at | Sensitivity (at 12dB SINAD) | | 0.30μV (ty 0.25μV (typ. dig | /p. analog) gital at 5% BER) | 0.25μ\ | V (typ.) | |
| × | Adjacent char selectivity (W/ | | | 78/56d | B (typ.) | 70/6 | 60dB | |
| ~ | | oonse | e rejection | 90dB | (typ.) | 70 | dB | |
| | Intermodulati | on re | jection | 78dB | (typ.) | 70 | dB | |
| | AF output pow | er(at | 5% distortion) | 4.0W (typ.) w | vith a 4Ω load | 2.5W (typ.) v | vith a 4Ω load | |

^{*1} Fan, LCD backlight OFF.

FUNCTION COMPARISON AND INTERNAL UNIT OPTIONS

| | | IC-F9511T IC-F9511S | IC-F9511HT | IC-F1821/D IC-F1721/D IC-F2821/D IC-F2721/D | IC-F5061/D IC-F5063 IC-F6061/D IC-F6063 | IC-F520 IC-F521 IC-F620 IC-F621 | IC-F5021 IC-F5023/H IC-F6021 IC-F6023/H | IC-F111S IC-F121S IC-F211S IC-F221S | IC-F620TR IC-F621TR | IC-FR5000 IC-FR6000 | IC-FR3000 IC-FR4000 |
|--------------|--------------|------------------------|------------------|--|--|--|--|--|--------------------------|------------------------|------------------------|
| Number of | option slots | 1 | 1 | 1 | 2*2 | 1 | 1 | 1 | 1 | 1 | 1 |
| CTCSS/ | encoder | ~ | ~ | ~ | V | ~ | V | ~ | ~ | ~ | ~ |
| DTCS | decoder | ~ | ~ | V | V | ~ | ~ | ~ | ~ | ~ | ~ |
| 2-Tone | encoder | ✓* ⁷ | ✓* ⁷ | ~ | V | ~ | ~ | ~ | - | - | ~ |
| 2-Tone | decoder | ✓ * ⁷ | ✓ * ⁷ | ~ | V | ~ | V | ~ | _ | - | ~ |
| 5-Tone | encoder | - | - | ~ | V | ~ | V | ~ | _ | ~ | ~ |
| 5-101le | decoder | _ | _ | V | V | ~ | ~ | ~ | _ | ~ | ~ |
| DTMF auto | odial | ~ | ~ | ~ | V | ~ | ~ | ~ | ~ | ~ | ~ |
| DTMF decoder | | - | - | ✓ *3 | ✓ *³ | UT-108 | UT-108R | UT-108 | UT-108 | ~ | ~ |
| Voice | Inversion | ~ | ~ | ~ | ~ | - | - | - | - | ~ | - |
| Scrambler* | Non-rolling | _ | - | UT-109 (Version 02) | UT-109R | UT-109 (Version 02) | UT-109R | UT-109 (Version 02) | UT-109 (Version 02) | UT-109R | UT-109 (Version 01) |
| Scrambler | Rolling | _ | - | UT-110 (Version 02) | UT-110R | UT-110 (Version 02) | UT-110R | UT-110 (Version 02) | UT-110*4 (Version 02) | UT-110R | UT-110 (Version 01) |
| APCO P25 | digital | ~ | ~ | ✓ * ⁶ | - | - | - | - | - | - | - |
| APCO P25 | trunking | ~ | ~ | - | - | - | - | - | _ | _ | - |
| AES encry | ption | UT-125 | UT-125 | EX-2785 J03 | - | - | _ | _ | _ | _ | - |
| DES encry | ption | UT-125 or UT-128 | UT-125 or UT-128 | EX-2785 J02 | - | - | - | - | - | - | - |
| IDAS digit | al | - | - | - | UT-126H | - | - | - | _ | ~ | - |
| IDAS digit | al trunking | - | - | - | UT-126H | - | - | - | - | UC-FR5000 | - |
| MDC 1200 | | ✓ * ⁷ | ✓ * ⁷ | ~ | ~ | - | ~ | ~ | _ | - | _ |
| LTR™ trun | king | - | - | - | V | - | - | - | ~ | ✓ *5 | ✓ *5 |
| PassPort | | - | - | - | - | - | - | - | ~ | ✓ *5 | ✓ *5 |

^{*}¹ Inversion type voice scrambler is not compatible with UT-109/UT-110 voice scrambler. *² One for UT-126H digital unit and one for another option unit.
*³ Possible as a kind of 5-Tone format. *¹ Available in conventional mode only. *⁵ External controller required.
*⁵ UT-120 (version 02) required for IC-F1721/F1821,F2721/F2821. *⁻ Available later



^{*2} Repeater operation only. *3 depending on version

BATTERY PACKS AND CHARGERS

| Battery packs | BP-253 | BP-254 BP-254FM | BP-227 BP-227FM | BP-230N | BP-232N | BP-209N | BP-210N | BP-222N | |
|---|------------------|--|--|---|-------------------------------|----------------------|--|--------------|--|
| Transceiver | IC-F70T/S series | IC-F9011T/S/B series IC-F70T/S series | IC-F50V IC-F60V IC-F50 IC-F60 | IC-F3161T/S series IC-F33GT/GS series IC-F3021T/S series IC-F14/S series | | IC-F11/S IC-F21/S | | | |
| Rapid charger | BC-119N + BC | :-145 + AD-110 | BC-119N + BC-145 + AD-100 or BC-190 + BC-145 | | C-145 + AD-106 C) + BC-145 | | + BC-145 + AD-101 (or BC-144N + BC-14: | , | |
| Regular charger | N | /A | BC-152 + BC-147 | BC-171 | + BC-147 | BC-146 + BC-147 | | | |
| Multi charger | BC-121N + BC- | -145 + AD-110 *1 | BC-121N + BC-157 + AD-100 *1 | BC-121N + BC- | 157 + AD-106 *1 | BC-121N + | · BC-157 + AD-101 (| or AD-94) *1 | |
| Operating time (Tx:Rx:Stand-by=5:5:90) | 8 hours*2 | 9 hours (with IC-F9011T) | 10 hours*2 | 7.3 hours*2 | | 8.5 hours*2 | 13 hours*2 | 4.5 hours*2 | |

^{*1} Six charger adapters are required. *2 As a rough value.

ADDITIONAL SPECIFICATIONS AND FEATURES



Icom makes rugged products that have been tested to and passed the following MIL-STD requirements and International Protection standards.

| Standard | Low Pressure | High Temperature | Low Temperature | Temperature Shock | Solar Radiation | Rain Blowing/Drip | Humidity | Salt Fog | Dust | Immersion | Vibration | Shock |
|----------------------|-----------------|---------------------|--------------------|----------------------|--------------------|----------------------|----------|----------|-------------|-----------|-----------|-------------|
| MIL-810 F | 500.3, I, II | 501.4, I, II | 502.4-3, I, II | 503.4, I | 505.4, I | 506.4, I, III | 507.4 | 509.4 | 510.4, I | 512.4, I | 514.5, I | 516.5, I,IV |
| IC-F9011T/S/B series | ~ | ~ | ~ | ~ | ~ | ~ | ~ | ~ | ~ | ~ | V | ~ |
| IC-F70T/S series | V | ~ | V | V | V | ~ | V | V | V | V | V | V |
| IC-F3161T/S series | ~ | ~ | ~ | ~ | ~ | ~ | ~ | ~ | ~ | | | ~ |
| IC-F50V/F60V | V | ~ | ~ | V | ~ | ~ | V | V | ~ | | <u> </u> | V |
| IC-F50/F60 | ~ | ~ | ~ | ~ | ~ | ~ | ~ | ~ | ~ | | V | V |
| IC-F33GT/GS series | V | ~ | V | ~ | V | ~ | V | V | V | | V | V |
| IC-F3021T/S series | ~ | ~ | ~ | ~ | ~ | ~ | ~ | ~ | ~ | | ~ | V |
| IC-F14/S series | V | ~ | ~ | ~ | ~ | ~ | V | V | ~ | | V | V |
| IC-F11/S series | ~ | ~ | ~ | ~ | ~ | ~ | ~ | ~ | ~ | | V | V |
| IC-F9511T/S series | V | V | V | / | V | | / | V | V | | V | V |
| IC-F9511HT | ~ | ~ | ~ | / | ~ | V | ~ | ~ | ~ | | ~ | V |
| IC-F1821 series | ~ | ~ | ~ | ~ | ~ | | V | V | ~ | | V | V |
| IC-F1721 series | ~ | ~ | ~ | ~ | ~ | | ~ | ~ | ~ | | V | V |
| IC-F5061 series | / | V | V | / | / | ✓ *1 | ✓ | / | / | | V | V |
| IC-F521 series | ~ | ~ | ~ | ' | V | V | V | V | V | | V | V |
| IC-F5021 series | V | ~ | ~ | ~ | V | | ~ | | ✓ *3 | | V | V |
| IC-F111S series | V | ~ | ~ | / | V | ~ | V | ~ | V | | V | V |
| IC-FR5000, IC-FR6000 | | ~ | ~ | | | | | | V | | V | ✓ *4 |
| IC-FR3000, IC-FR4000 | | ~ | ~ | | | | | | | | ~ | ✓ *4 |

Ingress of dust and water IP57 IPX7 IP55 IP67 IP67 IP54 IP54*2 IP54 IP54*2 IP54*2

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International Protection Rating

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Rain blowing, drip and IP dust and water tests were performed on the controller and RMK-2 only. *2 IP dust and water tests were performed on the controller and RMK-2 only.

^{*3} Settling dust test (510.4 III) passed only. *4 Shock Functional test (516.5 I) passed only.