



PROFESSIONAL COMMUNICATIONS

EUROPE EDITION



HARD WORKING RADIOS

COMPANY PROFILE

ICOM, THE WIRELESS COMMUNICATION EXPERTS

Icom Inc. is a company located in Osaka, Japan, and is a manufacturer of wireless communication products. Since Icom's establishment in 1954, Icom has had a long record as a trusted manufacturer of land mobile radio, amateur radio, marine radio and navigation products, and 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 Icom's products. Using the latest equipment, Icom radios are tested to pass rigorous in-house tests as well as environmental tests to the US Military standard 810 specifications. Icom's products are also compliant with the European RoHS directive.



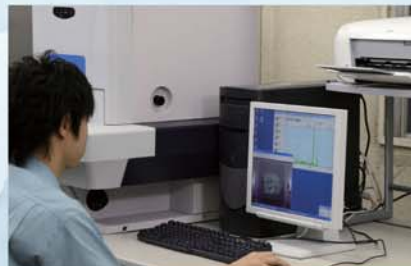
Dust Protection



Water resistant



Vibration



Transit Drop Test

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/multi-model wireless communication products.



ICOM BRAND

ICOM, WORLD BRAND NAME

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



NETWORK

ICOM'S WORLDWIDE NETWORK

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





dPMR
igital™
GPS
IP67
Rugged
MIL-STD 810

IC-F3262DT

IC-F4262DS

VHF HANDHELD TRANSCEIVERS

IC-F3262DT (5W)
IC-F3262DS (5W)

IDAS™ features

- dPMR Mode 1, 2 and 3 compatible
- Individual and group selective call
- Broadcast call • Ambience listening
- Status call and data call (Short Data Message)
- Transparent data call
- Emergency call and alert
- Remote kill, stun and revive
- Digital voice scrambler

General and analogue features

- 136–174MHz, 5W • 400–470MHz, 5W
- 512 memory channels with 128 zones
- Dot-matrix, multi-function display
- IP67 dust-tight and waterproof
- MIL-STD rugged construction
- Large capacity Lithium-Ion battery pack
- 800mW loud audio with BTL amplifier



IP67, Dust-tight & waterproof protection



Built-in GPS receiver*
(* Depending on version)

UHF HANDHELD TRANSCEIVERS

IC-F4262DT (5W)
IC-F4262DS (5W)

- 14-pin accessory connector with BTL amplifier output
- Mode dependent scan • Priority scan
- 8 DTMF autodial memories
- Lone worker function • Power on password
- Integrated GPS receiver and man down function*
(* Depending on version)
- Busy channel lockout, repeater lockout and time-out-timer
- Surveillance function • Escalating alarm
- Built-in 5-Tone, 2-Tone, CTCSS and DTCS capability
- Built-in audio compander
- Wide/middle/narrow channel spacing

Supplied accessories (May differ according to version)

- Battery pack, BP-232WP • Antenna • Belt clip, MB-94R



dPMR
igital™
IP55
Rugged
MIL-STD 810

5W
(VHF/UHF)

VHF & UHF HANDHELD TRANSCEIVERS
IC-F3162DT/DS
IC-F4162DT/DS

VERSATILE, MULTI-FUNCTION PROFESSIONAL

IDAS™ features

- dPMR Mode 1, 2 and 3 compatible
- Individual and group selective call
- Broadcast call • Ambience listening
- Status call and data call (Short Data Message)
- Transparent data call • Emergency call and alert
- Remote kill, stun and revive
- Digital voice scrambler

General and analogue features

- 136–174MHz, 25W • 400–470MHz, 25W
- 512 memory channels with 128 zones
- Backlit dot-matrix display • Power on password
- IP54 dust-protection and splash resistance (Controller only)
- Detachable front panel (Optional RMK-3 and separation cable required)
- MIL-STD rugged construction • DTMF autodial
- Front mounted speaker • Lone worker function
- D-SUB 25-pin accessory connector • Escalating alarm
- Ignition sensing line • Surveillance function
- Mode dependent scan • Priority scan
- Busy channel lockout, repeater lockout and time-out-timer
- Built-in 5-Tone, 2-Tone, CTCSS and DTCS capability
- Built-in audio compander • Radio kill, stun and revive function
- Wide/middle/narrow channel spacing
- Optional voice scrambler UT-109R/UT-110R and built-in inversion voice scrambler

VHF MOBILE TRANSCEIVER

IC-F5062D (25W)

UHF MOBILE TRANSCEIVER

IC-F6062D (25W)

dPMR
igital™
IP54
Controller and
RMK-3 only.
Rugged
MIL-STD 810



The above photo includes optional separation kit, RMK-3, and separation cable, OPC-609.

Supplied accessories (May differ according to version)

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

SIMPLE, AFFORDABLE DIGITAL RADIO



VHF HANDHELD TRANSCEIVER UHF HANDHELD TRANSCEIVER
IC-F3102D (5W) **IC-F4102D** (4W)



IP54



IDAS™ features

- dPMR Mode 1 and 2 compatible
- PTT ID (TX) • Individual/Group call
- Remote kill, stun and revive (RX)
- Ambient listening (RX) • SDM/Status RX beep
- Emergency • Digital voice scrambler

General and analogue features

- 136–174MHz, 5W • 400–470MHz, 4W
- 16 memory channels • 3-color LED
- Channel announcement function
- 800mW (typ.) loud speaker audio
- Internal VOX capability for hands-free operation
- IP54, dust-protection and water resistance

- MIL-STD rugged construction
- Lone worker function • DTMF autodial
- Surveillance function
- Busy channel lockout, repeater lockout and time-out-timer
- Optional GPS microphone, HM-171GP
- 58(W)×111.5(H)×36.5(D) mm compact body
- Simple operation for instant communication
- Built-in 5-Tone, 2-Tone, CTCSS and DTCS capability
- BIIS 1200 PTT ID
- Radio kill, stun and revive function (RX only)
- Wide/middle/narrow channel spacing

Supplied accessories differ according to version.



DIGITAL STANDARD MOBILE RADIO

VHF MOBILE TRANSCEIVER UHF MOBILE TRANSCEIVER
IC-F5122D (25W) **IC-F6122D** (25W)



Supplied accessories (May differ according to version)

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

IDAS™ features

- dPMR Mode 1 and 2 compatible
- PTT ID • Individual/Group call
- Status call and data call (Short Data Message)
- Transparent data call (Xon/Xoff)
- Remote kill, stun and revive (RX) • Emergency
- Ambient listening (RX) • Digital voice scrambler

General and analogue features

- 136–174MHz, 25W • 400–470MHz, 25W
- 128 memory channels with 8 zones
- 8-character alphanumeric display
- 4W (typ.) front mounted speaker
- MIL-STD rugged construction
- Built-in 5-Tone, 2-Tone, CTCSS and DTCS capability
- BIIS PTT ID transmission
- Wide/middle/narrow channel spacing
- 8 DTMF autodial memories • Surveillance function
- D-Sub 25-pin accessory connector with optional OPC-2078

A FIRST! DIGITAL PMR 446 RADIO

DIGITAL PMR 446 TRANSCEIVER
IC-F4029SDR (500mW)



LICENCE FREE



- dPMR 446 Compatible
- Digital PMR 446 (16ch) plus analogue PMR 446 (8ch) available
- No licence* is required to use the radio
- 500mW output power (ERP)
- 32-status messages

- Common ID code for group communication
- 8-character alphanumeric display
- Smart ring and tone find function in analogue PMR 446 mode
- Compact and lightweight body (320g)

* Simple licence or application may be required in some countries.



Status message examples

Supplied accessories (May differ according to version)

- Battery pack, BP-232H
- Belt clip, MB-94
- Battery charger, BC-160
- AC adapter, BC-145S



RADIO & PAGER, ALL IN ONE

VHF HANDHELD TRANSCEIVER

IC-F51V (5W)

UHF HANDHELD TRANSCEIVER

IC-F61V (4W)



IP67



- 136–174MHz, 5W • 400–470MHz, 4W
- Vibration alert function* (*Depending on version)
- 8 minutes' recording function* (*Depending on version)
- 700mW (typ.) loud audio output with internal speaker
- Lone worker function for remote check in
- 128 memory channels with 8 zones
- IP67, dust-tight and waterproof protection
- MIL-STD rugged construction
- 56(W)×97(H)×36.4(D) mm compact body
- Built-in 5-Tone, 2-Tone, CTCSS, DTCS and BIIS 1200 capability
- MDC 1200 compatible (limited functions)
- Wide/middle/narrow channel spacing

- Built-in inversion voice scrambler
- Operating time: 9–10 hours* (approx. with BP-227 battery pack)
- * Tx: Rx: standby=5:5:90. Power save on.
- Mode dependent scan
- 8 DTMF autodial memories
- Nuisance delete function • Audio compander
- BTL only version (no vibration alert and no voice recorder) and BTL/vibration alert version (no voice recorder) available*
- * Not available in some countries.

Supplied accessories (May differ according to version)

- Battery pack, BP-274/BP-227 • Antenna • Belt clip, MB-98



ATEX INTRINSICALLY SAFE RADIO

VHF HANDHELD TRANSCEIVER

IC-F51ATEX (1W)

UHF HANDHELD TRANSCEIVER

IC-F61ATEX (1W)



IP67



IC-F51 ATEX

IC-F61 ATEX



- 136–174MHz, 1W • 400–470MHz, 1W
- 128 memory channels with 8 zones
- ATEX (gas and dust) intrinsically safe (* Please see page 15 for details)
- IP67, dust-tight and waterproof protection
- MIL-STD rugged construction
- 56(W)×97(H)×36.4(D) mm compact body
- Built-in 5-Tone, 2-Tone, CTCSS, DTCS and BIIS 1200 capability
- MDC 1200 compatible* (limited functions) (* Depending on version)
- Wide/middle/narrow channel spacing

- Built-in inversion type and UT-110 equivalent voice scrambler
- Operating time: 16.5 hours* (approx. with BP-227AXD battery pack)
- * Tx: Rx: standby=5:5:90. Power save on.
- Normal and priority scans
- 8 DTMF autodial memories
- Lone worker function for remote check in
- Nuisance delete function • Audio compander

Supplied accessories (May differ according to version)

- Battery pack, BP-227AXD • Antenna • Belt clip, MB-98

SUPERIOR WATERPROOF PROTECTION

VHF HANDHELD TRANSCEIVER

IC-F3032S (5W)

UHF HANDHELD TRANSCEIVER

IC-F4032S (4W)



IP67



(PTT ID transmission)

- 136–174MHz, 5W • 400–470MHz, 4W
- 128 memory channels with 8 zones
- 8 character alphanumeric display
- IP67, dust-tight and waterproof protection
- Operating time: 17.5 hours* (approx. with BP-232WP battery pack)
- * Tx: Rx: standby=5:5:90. Power save on.
- Built-in 5-Tone, 2-Tone, CTCSS and DTCS capability
- BIIS 1200 PTT ID transmission
- MDC 1200 compatible (limited functions)
- MIL-STD rugged construction
- 53(W)×120(H)×37(D) mm compact body

- Small and lightweight body (310g)
- Wide/middle/narrow channel spacing
- Lone worker function
- Mode dependent scan
- Nuisance delete function
- Surveillance function
- 8 DTMF autodial memories
- Optional voice scrambler, UT-109R/UT-110R
- Optional man down unit, UT-124R
- Optional DTMF decoder, UT-108R

Supplied accessories (May differ according to version)

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

IC-F3032S

IC-F4032S



ECONOMICAL STANDARD MODEL

VHF HANDHELD TRANSCEIVERS

IC-F3022T (5W)
IC-F3022S (5W)

UHF HANDHELD TRANSCEIVERS

IC-F4022T (4W)
IC-F4022S (4W)



(PTT ID transmission)

- 136–174MHz, 5W • 400–470MHz, 4W
- 128 memory channels with 8 zones
- 8 character alphanumeric display
- Operating time: 17.5 hours* (approx. with BP-232H battery pack)
- * Tx: Rx: standby=5:5:90. Power save on.
- Built-in 5-Tone, 2-Tone, CTCSS and DTCS capability
- BIIS 1200 PTT ID transmission
- MDC 1200 compatible (limited functions)
- Wide/middle/narrow channel spacing
- IP54, dust-protection and water resistance
- MIL-STD rugged construction

- 53(W)×120(H)×37(D) mm compact body
- Small and lightweight body (300g)
- Lone worker function • Surveillance function
- Mode dependent scan
- Nuisance delete function
- 8 DTMF autodial memories
- Optional voice scrambler, UT-109R/UT-110R
- Optional man down unit, UT-124R
- Optional DTMF decoder, UT-108R

Supplied accessories (May differ according to version)

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



SIMPLE, HIGH PERFORMANCE RADIO

VHF HANDHELD TRANSCEIVER

IC-F3002 (5W)

UHF HANDHELD TRANSCEIVER

IC-F4002 (4W)



(PTT ID transmission)



- 136–174MHz, 5W • 400–470MHz, 4W
- 16 memory channels • 3-color LED
- Simple operation for instant communication
- Operating time: 20 hours* (approx. with BP-265 battery pack)
- * Tx: Rx: standby=5:5:90. Power save on.
- Built-in 5-Tone, 2-Tone, CTCSS and DTCS capability
- BIIS 1200 PTT ID transmission
- MDC 1200 PTT ID and emergency
- Wide/middle/narrow channel spacing

- 800mW (typ.) loud speaker audio
- IP54, dust-protection and water resistance
- MIL-STD rugged construction
- 58(W)×111(H)×35.5(D) mm compact body
- Internal VOX capability for hands-free operation
- DTMF autodial memories
- Lone worker function
- Surveillance function • Low battery alert

Supplied accessories differ according to version.

PROFESSIONAL LICENCE FREE RADIO

PMR 446 TRANSCEIVER

IC-F27SR (500mW)



- Analogue PMR 446 (8ch)
- No licence* is required to use the radio
- Just three main controls for simple operation
- MIL-STD rugged construction
- 800mW outstanding audio quality
- Operating time: 35.5 hours* (approx. with BP-265 battery pack)
- * Tx: Rx: standby=5:5:90. Power save on.
- Internal VOX capability for hands-free operation
- Surveillance function turns off the LED and beep sound
- Siren function can be used for security alarm

- Power save function
- Low battery alert
- Time-out-timer function
- Monitor function
- 58(W)×186(H)×36.5(D) mm compact body (with BP-265)
- 285g lightweight body (with BP-265)
- Built-in CTCSS/DTCS
- 500mW output power (ERP)

* Simple licence or application may be required in some countries.

Supplied accessories differ according to version.



HARDWORKING MOBILE RADIO

VHF MOBILE TRANSCEIVER

IC-F5022 (25W)

UHF MOBILE TRANSCEIVER

IC-F6022 (25W)



(PTT ID transmission)



- 136–174MHz, 25W • 400–470MHz, 25W
- 128 memory channels with 8 zones
- 8-character alphanumeric display
- Built-in 5-Tone, 2-Tone, CTCSS and DTCS capability
- BIIS PTT ID transmission
- MDC 1200 compatible (limited functions)
- Wide/middle/narrow channel spacing
- 8 DTMF autodial memories
- External memory channel control with optional ACC cable
- Tx channel setting and talk back function
- 4W (typ.) front mounted speaker
- MIL-STD rugged construction
- Optional DTMF decoder, UT-108R
- Optional voice scrambler, UT-109R and UT-110R

Supplied accessories (May differ according to version)

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

TOUGH LITTLE WORKER

VHF MOBILE TRANSCEIVER

IC-F5012 (25W)

UHF MOBILE TRANSCEIVER

IC-F6012 (25W)

- 136–174MHz, 25W • 400–470MHz, 25W
- 8 memory channels
- 4 programmable buttons and LED lighting
- Built-in 5-Tone, 2-Tone, CTCSS and DTCS capability
- BIIS PTT ID transmission
- MDC 1200 compatible (limited functions)
- Wide/middle/narrow channel spacing
- External memory channel control with optional ACC cable
- DTMF autodial memories
- Tx channel setting and talk back function
- 4W (typ.) front mounted speaker
- MIL-STD rugged construction
- Optional DTMF decoder, UT-108R
- Optional voice scrambler, UT-109R and UT-110R



(PTT ID transmission)



Supplied accessories (May differ according to version)

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

VHF REPEATERS

IC-FR5100 (25W)
IC-FR5100H (50W)

UHF REPEATERS

IC-FR6100 (25W)
IC-FR6100H (50W)



IDAS™ features

- IDAS dPMR Mode 2 repeater
- IDAS dPMR Mode 3 repeater (Fylde MultiLingo controller required)
- Individual and group selective call
- Talk back function and call mode selection
- Digital voice scrambler
- Status call and data call (Short Data Message)
- Radio kill, stun and revive (TX only)
- Call alert and radio check
- Ambience listening (TX only)
- IF output connector for connection to MultiLingo controller (Mode 3 version only)

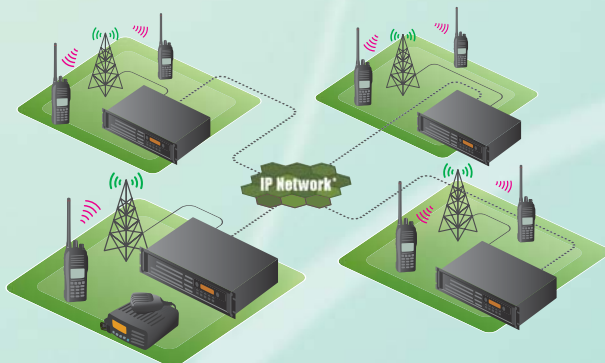
General and analogue features

- 136–174MHz, 400–470MHz coverage
- IC-FR5100H/FR6100H: 50W output at 100% duty cycle*
- IC-FR5100/FR6100: 25W output at 100% duty cycle*
- (* 25°C ambient temperature)

- 32 channel capacity and 12-digit dot-matrix display
- 19-inch rack mount design, 2U height low profile design
- “2 channel in 1 box” configuration (Optional UR-FR5100/UR-FR6100 required)
- Base station operation
- D-SUB 25-pin accessory connector
- CW-ID transmitter • Priority scan
- DTMF encode and decode
- ±0.5ppm high stability oscillator
- D-Sub 25-pin accessory connector
- Built-in audio compander
- Built-in 5-Tone, CTCSS and DTCS capability
- Wide/middle/narrow channel spacing
- Optional voice scrambler UT-109R/UT-110R and built-in inversion voice scrambler

Supplied accessories (May differ according to version)

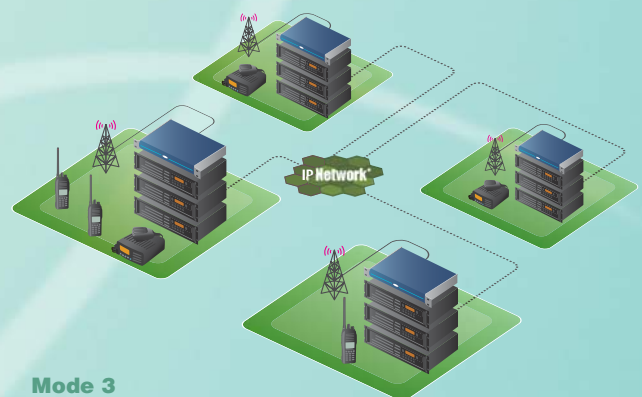
- DC power cable
- Key assign stickers



Mode 2 Conventional Repeater mode

Up to 16 repeater sites can be connected over an IP network.

*Note: Private IP Network or VPN Tunnels through the Internet with Static endpoints.



Mode 3

Digital Trunking Mode

(Example of sites with three repeaters controlled by two MultiLingo cards)

FYLDE MIKRO MultiLingo™

- Each card can handle 2 simultaneous communications
- Each 1U / 44mm height chassis holds up to 2 cards
- In MPT1327 or dPMR mode this means two repeaters connect to each card
- Each card can operate in MPT1327 or dPMR
- Connection is via dual 100/T Ethernet CAT5 sockets for redundancy
- A single connection to each repeater
- All speech is immediately digitised, even in analogue modes, there are no audio cables or switches
- Two legacy 2-wire telephone connections are provided on each card
- SIP digital telephony is also provided
- Up to 31 cards per site/62 channels



VERSATILE RADIO OVER IP GATEWAY

RoIP GATEWAY

VE-PG3

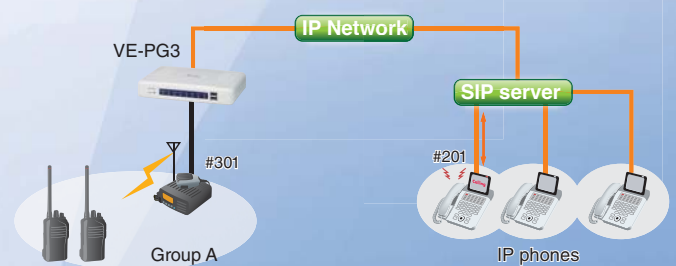


Bridge mode for point-to-point radio connection



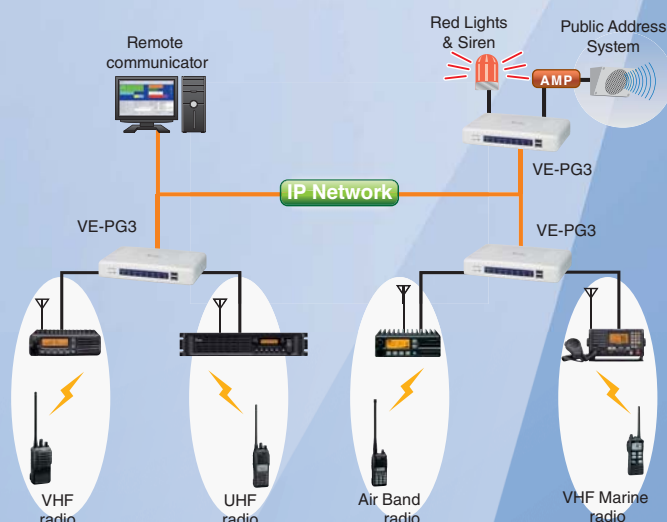
- The point-to-point radio connection mode simply bridges two VE-PG3's over an IP network. As shown in the figure above, the Group A radio users and the Group B radio users can talk to each other.
- In the selective call mode two or more radio systems can be connected to an IP network. Program the VE-PG3s to assign a unique DTMF code to each network connected radio system. Up to 500 DTMF codes can be programmed.
- The SM-26 or HM-152 microphone can be connected to the VE-PG3 to be used in the point-to-point radio connection mode. (DTMF code cannot be used.)

Radio to SIP converter mode



- The VE-PG3 is RFC 3261 compliant. The VE-PG3 can be used as a radio and SIP gateway. In this mode, IP phone users can call the radio users by calling a pre-programmed extension number. Radio users call can be directed to preprogrammed IP phone number.
- The VE-PG3 has a simplified SIP server which can handle up to four registered addresses. Larger system must be used with a SIP server.
- The VE-PG3 has two POTS line connectors and an analog telephone set connector.

Cross band operation



- Cross band connection is possible between VHF/UHF PMR, VHF marine and air band.
- The optional remote communicator is a virtual PC dispatch for VE-PG3. (Will be released later.)
- The VE-PG3 has two external equipment connectors. Public address system, siren, red light and other external equipment can be connected to the VE-PG3. The serial pass-through function allows you to control an external device via RS-232C interface.

Other Features

- Web-based easy configuration
- SNMP, SYSLOG, network monitoring and call logging
- Audio mixing function to break into an on-going conversation over an IP network
- Optional VPN router, SR-VPN1 for IP multicasting

OPTIONS FOR HANDHELD TRANSCEIVERS

MODEL NAME	BATTERY PACKS							BATTERY CASES	
	BP-227 (Li-Ion) 7.4V/1850mAh (min.) 1950mAh (typ.)	BP-227AXD (Li-Ion) 7.4V/1850mAh (min.) 1950mAh (typ.)	BP-232H (Li-Ion) 7.4V/2250mAh (min.) 2300mAh (typ.)	BP-232WP (Li-Ion) 7.4V/2250mAh (min.) 2300mAh (typ.) IP67	BP-264 (Ni-MH) 7.2V/1400mAh	BP-265 (Li-Ion) 7.4V/1900mAh (min.) 2000mAh (typ.)	BP-274 (Li-Ion) 7.4V/1800mAh (min.) 1900mAh (typ.)	BP-226 LR6 (AA) x5 cells	BP-240 LR03 (AAA) x6 cells
IC-F3262DT/DS, IC-F4262DT/DS				✓					✓
IC-F3162DT/DS, IC-F4162DT/DS			✓						✓
IC-F3102D, IC-F4102D					✓	✓			
IC-F51V, IC-F61V	✓						✓		
IC-F51, IC-F61 ATEX		✓					✓		
IC-F3032S, IC-F4032S				✓					✓
IC-F3022T/S, IC-F4022T/S			✓						✓
IC-F3002, IC-F4002					✓	✓			
IC-F4029SDR			✓						✓
IC-F27SR					✓	✓			

MODEL NAME	BATTERY CASES		CHARGERS						
	BP-261 LR6 (AA) x6 cells	BP-263 LR6 (AA) x6 cells	BC-119N Rapid charger	BC-121N Rapid multi-charger	BC-152N Regular charger	BC-160 Rapid charger	BC-171 Regular charger	BC-190 Rapid charger (For BP-227)	BC-191 Rapid charger (For BP-264)
IC-F3262DT/DS, IC-F4262DT/DS	✓		✓ (AD-106 is required)	✓ (AD-106 is required)		✓	✓		
IC-F3162DT/DS, IC-F4162DT/DS			✓ (AD-106 is required)	✓ (AD-106 is required)		✓	✓		
IC-F3102D, IC-F4102D		✓							✓
IC-F51V, IC-F61V			✓ (AD-100 is required)	✓ (AD-100 is required)	✓			✓	
IC-F51, IC-F61 ATEX			✓ (AD-100 is required)	✓ (AD-100 is required)	✓				
IC-F3032S, IC-F4032S	✓		✓ (AD-106 is required)	✓ (AD-106 is required)		✓	✓		
IC-F3022T/S, IC-F4022T/S			✓ (AD-106 is required)	✓ (AD-106 is required)		✓	✓		
IC-F3002, IC-F4002		✓							✓
IC-F4029SDR			✓ (AD-106 is required)	✓ (AD-106 is required)		✓	✓		
IC-F27SR		✓							✓

MODEL NAME	CHARGERS			CHARGER ADAPTERS				AC ADAPTERS	
	BC-192 Regular charger (For BP-264)	BC-193 Rapid charger (For BP-265)	BC-197*1 Rapid multi-charger	AD-100 For BP-227, BP- 227AXD or BP-274	AD-106 For BP-230N, BP- 232H or BP-232WP	AD-120 For BP-264 AD-121 For BP-265	AD-122 For BP-230N, 232H or 232WP	BC-1235*2 12V/1A	BC-1455*2 16V/0.93A
IC-F3262DT/DS, IC-F4262DT/DS			✓ (Use with AD-122)		✓ (Use with BC-119N or BC-121N)		✓ (Use with BC-197)		✓ (Use with BC-119N or BC-160)
IC-F3162DT/DS, IC-F4162DT/DS			✓ (Use with AD-122)		✓ (Use with BC-119N or BC-121N)		✓ (Use with BC-197)		✓ (Use with BC-119N or BC-160)
IC-F3102D, IC-F4102D	✓	✓	✓ (Use with AD-120 or AD-121)			✓ (Use with BC-197)		✓ (Use with BC-191 or BC-193)	
IC-F51V, IC-F61V				✓ (Use with BC-119N or BC-121N)				✓ (Use with BC-190)	✓ (Use with BC-119N)
IC-F51, IC-F61 ATEX				✓ (Use with BC-119N or BC-121N)					✓ (Use with BC-119N)
IC-F3032S, IC-F4032S			✓ (Use with AD-122)		✓ (Use with BC-119N or BC-121N)		✓ (Use with BC-197)		✓ (Use with BC-119N or BC-160)
IC-F3022T/S, IC-F4022T/S			✓ (Use with AD-122)		✓ (Use with BC-119N or BC-121N)		✓ (Use with BC-197)		✓ (Use with BC-119N or BC-160)
IC-F3002, IC-F4002	✓	✓	✓ (Use with AD-120 or AD-121)			✓ (Use with BC-197)		✓ (Use with BC-191 or BC-193)	
IC-F4029SDR			✓ (Use with AD-122)		✓ (Use with BC-119N or BC-121N)		✓ (Use with BC-197)		✓ (Use with BC-119N or BC-160)
IC-F27SR	✓	✓	✓ (Use with AD-120 or AD-121)			✓ (Use with BC-197)		✓ (Use with BC-191 or BC-193)	

*1 Either AD-120, AD-121 or AD-122 is supplied with the BC-197, depending on version.

OPTIONS FOR HANDHELD TRANSCEIVERS

MODEL NAME	AC ADAPTERS			SPEAKER-MICROPHONES					
	BC-147S*2 12V/0.25A	BC-157S 12V/6.6A	BC-206SE*2 15V/0.4A	HM-138 IPX7	HM-158L/LA HM-131SC	HM-159L/ LA/SC	HM-168/LWP IPX7	HM-169 IP67	HM-170GP IP57 GPS
IC-F3262DT/DS, IC-F4262DT/DS									
IC-F3162DT/DS, IC-F4162DT/DS	✓ (Use with BC-171)	✓ (Use with BC-121N or BC-197)			✓ (Use HM-131SC)	✓ (Use HM-159SC)	✓ (Use HM-168)	✓	✓
IC-F3102D, IC-F4102D		✓ (Use with BC-197)	✓ (Use with BC-192)		✓ (Use HM-158L)	✓ (Use HM-159L)			
IC-F51V, IC-F61V	✓ (Use with BC-152N)	✓ (Use with BC-121N)		✓			✓ (Use HM-168)	✓	✓
IC-F51, IC-F61 ATEX	✓ (Use with BC-152N)	✓ (Use with BC-121N)		✓					
IC-F3032S, IC-F4032S	✓ (Use with BC-171)	✓ (Use with BC-121N or BC-197)			✓ (Use HM-158LA)	✓ (Use HM-159LA)	✓ (Use HM-168LWP)		
IC-F3022T/S, IC-F4022T/S	✓ (Use with BC-171)	✓ (Use with BC-121N or BC-197)			✓ (Use HM-158L)	✓ (Use HM-159L)			
IC-F3002, IC-F4002		✓ (Use with BC-197)	✓ (Use with BC-192)		✓ (Use HM-158L)	✓ (Use HM-159L)			
IC-F4029SDR	✓ (Use with BC-171)	✓ (Use with BC-121N or BC-197)			✓ (Use HM-158L)	✓ (Use HM-159L)			
IC-F27SR		✓ (Use with BC-197)	✓ (Use with BC-192)		✓ (Use HM-158L)	✓ (Use HM-159L)			

*2 BC-123S/BC-145S/BC-147SA for 120V AC. SE for 230V AC. SV for 240V AC. BC-206SE for 230V AC.

MODEL NAME	SPEAKER-MICROPHONES		EARPHONE-MICROPHONES		HEADSETS			VOX/PTT CASE	PLUG ADAPTER CABLE
	HM-171GP IP54 GPS	HM-184 IP67	HM-153L/LA	HM-166L/LA	HS-94 Earhook type with boom microphone	HS-95 Behind-the-head type	HS-97 Throat microphone type	VS-1L/SC	OPC-2004
IC-F3262DT/DS, IC-F4262DT/DS									
IC-F3162DT/DS, IC-F4162DT/DS		✓							
IC-F3102D, IC-F4102D	✓								✓
IC-F51V, IC-F61V					✓ (Use with VS-1SC)	✓ (Use with VS-1SC)	✓ (Use with VS-1SC)	✓ (Use with VS-1SC)	
IC-F51, IC-F61 ATEX									
IC-F3032S, IC-F4032S			✓ (Use HM-153LA)	✓ (Use HM-166LA)	✓ (Use with VS-1L)	✓ (Use with VS-1L)	✓ (Use with VS-1L)	✓ (Use VS-1L)	
IC-F3022T/S, IC-F4022T/S			✓ (Use HM-153L)	✓ (Use HM-166L)	✓ (Use with VS-1L)	✓ (Use with VS-1L)	✓ (Use with VS-1L)	✓ (Use VS-1L)	
IC-F3002, IC-F4002					✓ (Use with OPC-2004)	✓ (Use with OPC-2004)	✓ (Use with OPC-2004)		✓
IC-F4029SDR			✓ (Use HM-153L)	✓ (Use HM-166L)	✓ (Use with VS-1L)	✓ (Use with VS-1L)	✓ (Use with VS-1L)	✓ (Use VS-1L)	
IC-F27SR					✓ (Use with OPC-2004)	✓ (Use with OPC-2004)	✓ (Use with OPC-2004)		✓

MODEL NAME	EARPHONES		EARPHONE ADAPTER	ACC ADAPTER	BELT CLIPS		LEATHER BELT HANGERS		CHARGER BRACKET
	SP-13	SP-27 Tube earphone	AD-52	AD-118 Allows you to use 6-pin Hirose plug accessories	MB-86 MB-93 Swivel type	MB-94 MB-94R MB-98 MB-124 Alligator type	MB-96N	MB-96F	MB-130
IC-F3262DT/DS, IC-F4262DT/DS									
IC-F3162DT/DS, IC-F4162DT/DS	✓ (Use with AD-52)	✓ (Use with AD-52)	✓		✓ (Use MB-93)	✓ (Use MB-94/R)	✓	✓	✓ (Use with BC-160)
IC-F3102D, IC-F4102D		✓				✓ (Use MB-124)			✓ (Use with BC-191, BC-192 or BC-193)
IC-F51V, IC-F61V					✓ (Use MB-86)	✓ (Use MB-98)	✓	✓	✓ (Use with BC-190)
IC-F51, IC-F61 ATEX					✓ (Use MB-86)	✓ (Use MB-98)			✓ (Use with BC-190)
IC-F3032S, IC-F4032S	✓	✓			✓ (Use MB-93)	✓ (Use MB-94/R)	✓	✓	✓ (Use with BC-160)
IC-F3022T/S, IC-F4022T/S	✓	✓			✓ (Use MB-93)	✓ (Use MB-94/R)	✓	✓	✓ (Use with BC-160)
IC-F3002, IC-F4002		✓				✓ (Use MB-124)			✓ (Use with BC-191, BC-192 or BC-193)
IC-F4029SDR	✓	✓			✓ (Use MB-93)	✓ (Use MB-94/R)	✓	✓	✓ (Use with BC-160)
IC-F27SR		✓				✓ (Use MB-124)			✓ (Use with BC-191, BC-192 or BC-193)

OPTIONS FOR HANDHELD TRANSCEIVERS

MODEL NAME	DC POWER CABLES		CIGARETTE LIGHTER CABLE	ANTENNAS		CUT ANTENNAS	HIGH GAIN ANTENNAS	STUBBY ANTENNAS	
	OPC-656	OPC-515L	CP-23L	FA-SC25V 136-150MHz FA-SC55V 150-174MHz FA-SC25U 400-430MHz FA-SC57U 430-470MHz	FA-S24V 136-150MHz FA-S59V 150-174MHz FA-S27U 400-470MHz FA-S56U 450-520MHz	FA-SC61VC 136-174MHz FA-SC61UC 380-520MHz	FA-SC62V 150-160MHz FA-SC63V 155-165MHz	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-F3262DT/DS, IC-F4262DT/DS	✓ (Use with BC-121N or BC-197)	✓ (Use with BC-119N)	✓ (Use with BC-119N)	✓		✓	✓	✓	
IC-F3162DT/DS, IC-F4162DT/DS	✓ (Use with BC-121N or BC-197)	✓ (Use with BC-119N)	✓ (Use with BC-119N)	✓		✓	✓	✓	
IC-F3102D, IC-F4102D	✓ (Use with BC-197)	✓ (Use with BC-191, BC-192 or BC-193)	✓ (Use with BC-191 or BC-193)	✓		✓	✓	✓	
IC-F51V, IC-F61V	✓ (Use with BC-121N)	✓ (Use with BC-119N)	✓ (Use with BC-119N)		✓				✓
IC-F51, IC-F61 ATEX					✓				✓
IC-F3032S, IC-F4032S	✓ (Use with BC-121N or BC-197)	✓ (Use with BC-119N)	✓ (Use with BC-119N)	✓		✓	✓	✓	
IC-F3022T/S, IC-F4022T/S	✓ (Use with BC-121N or BC-197)	✓ (Use with BC-119N)	✓ (Use with BC-119N)	✓		✓	✓	✓	
IC-F3002, IC-F4002	✓ (Use with BC-197)	✓ (Use with BC-191, BC-192 or BC-193)	✓ (Use with BC-191 or BC-193)	✓		✓	✓	✓	
IC-F4029SDR	✓ (Use with BC-121N or BC-197)	✓ (Use with BC-119N)	✓ (Use with BC-119N)						
IC-F27SR	✓ (Use with BC-197)	✓ (Use with BC-191, BC-192 or BC-193)	✓ (Use with BC-191 or BC-193)						

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

OPTIONS FOR MOBILE TRANSCEIVERS AND REPEATERS

MODEL NAME	SEPARATION KIT AND CABLE		ACC CABLES				HAND MICROPHONES		
	RMK-3	OPC-609 (1.9m)	OPC-1939 (15-pin)	OPC-2078 (25-pin)	OPC-2202 UR-PA5000/PA6000 connection cable	OPC-2203 UR-PA5000/PA6000 connection cable (For dPMR Mode 3)	OPC-2311 MultiLingo connection cable (For dPMR Mode 3)	HM-152	HM-152T with DTMF keypad
IC-F5062D, IC-F6062D	✓ (OPC-609 is required.)	✓						✓	✓
IC-F5122D, IC-F6122D			✓*	✓*				✓	✓
IC-F5022, IC-F6022			✓	✓				✓	✓
IC-F5012, IC-F6012			✓	✓				✓	✓
IC-FR5100, IC-FR6100					✓	✓	✓	✓	
IC-FR5100H, IC-FR6100H					✓	✓	✓	✓	

* No digital modulation "IN" using accessory cables.

MODEL NAME	HAND MICROPHONES		DESKTOP MICROPHONE	EXTERNAL SPEAKERS		CHANNEL MODULES	POWER AMPLIFIER	NETWORK CONTROLLER
	HM-148G Heavy-duty type	HM-148T Heavy duty type with DTMF keypad	SM-26	SP-30	SP-35 2m cable SP-35L 6m cable	UR-FR5100 136-174MHz, 25W UR-FR6100 400-470MHz, 25W	UR-PA5000 136-174MHz, 50W 100% duty UR-PA6000 400-470MHz, 50W 100% duty	UC-FR5000
IC-F5062D, IC-F6062D	✓	✓	✓	✓	✓			
IC-F5122D, IC-F6122D	✓	✓	✓	✓	✓			
IC-F5022, IC-F6022	✓	✓	✓	✓	✓			
IC-F5012, IC-F6012	✓	✓	✓	✓	✓			
IC-FR5100, IC-FR6100			✓	✓	✓	✓	✓	✓ (dPMR Mode 2 only)
IC-FR5100H, IC-FR6100H			✓	✓	✓		Built-in	

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

✓ : Applicable □ : Not applicable

SPECIFICATIONS FOR HANDHELD TRANSCEIVERS

	IC-F3262DT/DS IC-F4262DT/DS	IC-F3162DT/DS IC-F4162DT/DS	IC-F3102D IC-F4102D	IC-F51V IC-F61V	IC-F51 ATEX IC-F61 ATEX	IC-F3032S IC-F4032S	IC-F3022T/S IC-F4022T/S	IC-F3002 IC-F4002	IC-F4029SDR	IC-F27SR
Frequency coverage	136–174MHz 400–470MHz	136–174MHz 400–470MHz	136–174MHz 400–470MHz	136–174MHz 400–470MHz	136–174MHz 400–470MHz	136–174MHz 400–470MHz	136–174MHz 400–470MHz	136–174MHz 400–470MHz	Analogue; 446.00625– 446.09375MHz Digital; 446.103125– 446.196875MHz*	Analogue; 446.00625– 446.09375MHz
Number of channels	512 channels 128 zones	512 channels 128 zones	16 ch	128 channels 8 zones	128 channels 8 zones	128 channels 8 zones	128 channels 8 zones	16 ch	Analogue; 8ch Digital; 16ch	Analogue; 8ch
Channel spacing	6.25, 12.5, 20, 25kHz	6.25, 12.5, 20, 25kHz	6.25, 12.5, 20, 25kHz	12.5, 20, 25kHz	12.5, 20, 25kHz	12.5, 20, 25kHz	12.5, 20, 25kHz	12.5, 20, 25kHz	6.25, 12.5kHz	12.5kHz
Dimensions (WxHxD; Projections are not included)	53.5x142.7x39.5mm (with BP-232WP)	53x136x38.5mm (with BP-232H)	58x111.5x36.5mm (with BP-265)	56x97x36.4mm (with BP-227)	56x97x36.4mm (with BP-227AXD)	53x120x37mm (with BP-232WP)	53x120x37mm (with BP-232H)	58x111x35.5mm (with BP-265)	53x195x37mm (with BP-232H)	58x186x36.5mm (with BP-265)
Weight (approx.)	410g (VHF) 400g (UHF) (with BP-232WP)	340g (with BP-232H)	320g (VHF) 310g (UHF) (with BP-265)	280g (VHF) 284g (UHF) (with BP-227)	295g (with BP-227AXD)	310g (with BP-232WP)	300g (with BP-232H)	270g (with BP-265)	320g (With BP-232H)	285g (With BP-265)
RF output power (High)	5W (VHF/UHF)	5W (VHF/UHF)	5W (VHF) 4W (UHF)	5W (VHF) 4W (UHF)	1W (VHF/UHF)	5W (VHF) 4W (UHF)	5W (VHF) 4W (UHF)	5W (VHF) 4W (UHF)	500mW ERP	500mW ERP
Frequency stability	±1.0ppm	±1.0ppm	±1.0ppm	±2.5ppm	±2.5ppm (VHF) ±2.0ppm (UHF)	±2.5ppm	±2.5ppm	±2.5ppm	±0.5kHz	±2.5ppm
Sensitivity (20dB SINAD, emf) (5% BER)	-4dBµV (typ.) -8dBµV (typ.)	-4dBµV (typ.) -8dBµV (typ.)	-4dBµV (typ.) -8dBµV (typ.)	-4dBµV (typ.) -	-4dBµV (typ.) -	-4dBµV (typ.) -	-4dBµV (typ.) -	-4dBµV (typ.) -	26.5dBµV/m -	26.5dBµV/m -
Selectivity (VHF) (UHF)	78/78/68dB (typ.)	75/75/68dB (typ.)	75/73/69dB (typ.)	75/75/65dB (typ.)	75/75/65dB (typ.)	75/75/65dB (typ.) 75/73/65dB (typ.)	75/75/65dB (typ.) 75/73/65dB (typ.)	78/78/70dB (typ.) 73/73/65dB (typ.)	-	-
Intermodulation rejection	67dB (typ.)	67dB (typ.)	65dB (typ.)	67dB (typ.)	67dB (typ.)	67dB (typ.)	67dB (typ.)	67dB (typ.)	-	-
Spurious response rejection	76dB (typ.)	70dB	91/80dB (typ.)	70dB	80dB (typ.)	70dB	70dB	80dB (typ.)	-	-
AF output power	Internal SP 800mW (typ.) External SP 1000mW (typ.)	- 500mW (typ.)	800mW (typ.) 400mW (typ.)	700mW (typ.) 500mW (typ.)	- 500mW (typ.)	- 500mW (typ.)	- 500mW (typ.)	800mW (typ.) 400mW (typ.)	- 500mW (typ.)	800mW (typ.) 400mW (typ.)

* As of October 2011, some countries have yet to allocate the 446.1–446.2MHz digital PMR 446 frequency range. We suggest you confirm the allocation status in your country before you use.

FUNCTION COMPARISON AND INTERNAL UNIT OPTIONS

	IC-F3262DT/DS IC-F4262DT/DS	IC-F3162DT/DS IC-F4162DT/DS	IC-F3102D IC-F4102D	IC-F51V IC-F61V	IC-F51 ATEX IC-F61 ATEX	IC-F3032S IC-F4032S	IC-F3022T/S IC-F4022T/S	IC-F3002 IC-F4002	IC-F4029SDR	IC-F27SR
Number of option slots	-	1	-	-	-	1	1	-	-	-
CTCSS/DTCS	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓
2-Tone	✓	✓	✓	✓	✓	✓	✓	✓	-	-
5-Tone	✓	✓	✓	✓	✓	✓	✓	✓	-	-
DTMF autodial	✓	✓	✓	✓	✓	✓	✓	✓	-	-
DTMF decoder	✓*3	✓*3	-	-	-	UT-108R	UT-108R	-	-	-
Voice Scrambler (Analogue)**	Inversion ✓ Non-rolling - Rolling -	✓ UT-109R UT-110R	- - -	✓ - -	✓ ✓ ✓	- UT-109R UT-110R	- UT-109R UT-110R	- - -	- - -	- - -
Voice Scrambler (Digital)	✓	✓	✓	-	-	-	-	-	-	-
dPMR™	Mode 1/ Mode 2 ✓ Mode 2 Multi-site ✓ Mode 3 Trunking ✓	✓ ✓ ✓	✓ ✓ -	- - -	- - -	- - -	- - -	- - -	- - -	- - -
BIIS 1200	✓	✓	✓*5	✓	✓	✓*5	✓*5	✓*5	-	-
MDC 1200	-	-	-	✓	-	✓	✓	✓*6	-	-
Man down function	✓*4	UT-124R	-	-	-	UT-124R	UT-124R	-	-	-
Intrinsically safe	-	-	-	-	✓	-	-	-	-	-
Vibration alert	-	-	-	✓*4	-	-	-	-	-	-
Voice recorder	-	-	-	✓*4	-	-	-	-	-	-
GPS receiver	✓*4	HM-170GP	HM-171GP	HM-170GP	-	-	-	-	-	-
Operating time**	12/10.5 hours*7 with BP-232WP	14 hours with BP-232H	17.5 hours with BP-265	9–10 hours with BP-227	16.5 hours with BP-227AXD	17.5 hours with BP-232WP	18 hours with BP-232H	20 hours with BP-265	26.5 hours with BP-232H	35.5 hours with BP-265
IP rating	IP67	IP55	IP54	IP67	IP67	IP67	IP54	IP54	-	IP54
MIL-STD requirements	MIL-810 G	MIL-810 F	MIL-810 F	MIL-810 F	MIL-810 F	MIL-810 G	MIL-810 F	MIL-810 F	MIL-810 F	MIL-810 F

*1 Inversion type voice scrambler is not compatible with UT-109/UT-110 voice scrambler. *2 5:5:90 duty cycle, power save ON.

*3 Possible as a kind of 5-Tone format. *4 Depending on version. *5 PTT ID only. *6 PTT ID and Emergency call only.





*7 Non GPS/GPS type.

SPECIFICATIONS FOR MOBILE TRANSCEIVERS AND REPEATERS

	IC-F5062D IC-F6062D	IC-F5122D IC-F6122D	IC-F5022 IC-F6022	IC-F5012 IC-F6012	IC-FR5100/H IC-FR6100/H
Frequency coverage	136–174MHz 400–470MHz	136–174MHz 400–470MHz	136–174MHz 400–470MHz	136–174MHz 400–470MHz	136–174MHz 400–470MHz
Number of channels	512 channels 128 zones	128 channels 8 zones	128 channels 8 zones	8 ch	32 channels
Channel spacing	6.25, 12.5, 20, 25kHz	6.25, 12.5, 20, 25kHz	12.5, 20, 25kHz	12.5, 20, 25kHz	6.25, 12.5, 20, 25kHz
Power supply requirements	13.2V DC	13.2V DC	13.2V DC	13.2V DC	13.2V DC
Dimensions (WxHxD; Projections are not included)	160x45x150mm	150x40x117.5mm	150x40x117.5mm	150x40x117.5mm	483x88x260mm
Weight (approx.)	1.3kg	800g	800g	800g	8.1 kg (FR5100H/FR6100H) 5.6kg (FR5100/FR6100)
RF output power (High)	25W	25W	25W	25W	50W (FR5100H/FR6100H) 25W (FR5100/FR6100)
Frequency stability	±1.5kHz	±1.5kHz	±1.5kHz	±1.5kHz	±0.2kHz (VHF) ±0.5kHz (UHF)
Sensitivity	(20dB SINAD, emf)	-4dBµV (typ.)	-4dBµV (typ.)	-4dBµV (typ.)	0dBµV (min.)
	(5% BER)	-8dBµV (typ.)	-8dBµV (typ.)	-	0dBµV (min. at 1% BER)
Selectivity (VHF) (UHF)	85/83/75dB (typ.)	80/80/70dB (typ.) 75/75/70dB (typ.)	75/75/65dB (typ.)	75/75/65dB (typ.)	86/83/77dB (typ.) 80/78/70dB (typ.)
Intermodulation rejection	70dB (typ.)	67dB (typ.)	67dB (typ.)	67dB (typ.)	72dB (typ.)
Spurious response rejection	90dB (typ.)	80dB (typ.)	80dB (typ.)	70dB	72dB (typ.)
AF output power	4W (typ.)	4W (typ.)	4W (typ.)	4W (typ.)	3.5W

FUNCTION COMPARISON AND INTERNAL UNIT OPTIONS

	IC-F5062D IC-F6062D	IC-F5122D IC-F6122D	IC-F5022 IC-F6022	IC-F5012 IC-F6012	IC-FR5100/H IC-FR6100/H
Number of option slots	1	-	1	1	1
CTCSS/ DTCS	encoder	✓	✓	✓	✓
	decoder	✓	✓	✓	✓
2-Tone 5-Tone	encoder	✓	✓	✓	✓ ^{*3}
	decoder	✓	✓	✓	✓ ^{*4}
DTMF autodial	✓	✓	✓	✓	✓
DTMF decoder	✓ ^{*2}	-	UT-108R	UT-108R	✓
Voice Scrambler (Analogue) ^{*1}	Inversion	✓	-	-	✓
	Non-rolling	UT-109R	-	UT-109R	UT-109R
	Rolling	UT-110R	-	UT-110R	UT-110R
Voice Scrambler (Digital)	✓	✓	-	-	✓
dPMR™	Mode 1/ Mode 2	✓	✓	-	✓
	Mode 2 Multi-site	✓	✓	-	UC-FR5000 ^{*6} (#12 required)
	Mode 3 Trunking	✓	-	-	✓ ^{*7}
BIIS 1200	✓	✓ ^{*3}	✓ ^{*3}	✓ ^{*3}	-
MDC 1200	-	-	✓	✓	-
IP rating	IP54 ^{*5}	-	-	-	-
MIL-STD requirements	MIL-810 F	MIL-810 F	MIL-810 F	MIL-810 F	MIL-810 F

UT-108R DTMF DECODER	UT-109R VOICE SCRAMBLER UNIT
	
UT-110R VOICE SCRAMBLER UNIT	UT-124R MAN DOWN UNIT
	

^{*1} Inversion type voice scrambler is not compatible with UT-109/UT-110 voice scrambler.

^{*2} Possible as a kind of 5-Tone format. ^{*3} PTT ID only. ^{*4} 5-Tone only.

^{*5} IP dust and water tests were performed on the controller and RMK-3 only.

^{*6} IC-FR5100/FR6100 Mode 2 version only. ^{*7} Fylde MultiLingo™ controller required.






✓ : Available

UT-108 : Required internal unit (Eg. UT-108)

- : Not available

SPECIFICATIONS AND OPTIONS FOR ROIP GATEWAY

	VE-PG3
Power supply requirement	230V AC ±10% (with supplied AC adapter) (12V DC, 1.1A for main unit)
Dimensions (W×H×D, Projections are not included)	232×168×38 mm
Weight (approx.)	800g (approx.)
LAN/WAN	RJ-45 x2 (10BASE-T/100BASE-TX Ethernet)
Telephone set	RJ-11 x1
Telephone line	RJ-11 x2
Transceiver interface	2.54mm pitch quick connectors x2
General interface	2.54mm pitch quick connectors x2 (Transceivers can also be connected)
USB	Standard A type receptacle x2

CONNECTION CABLES				VPN ROUTER
OPC-2274 Repeater connection cable, 5m 	OPC-2275 Mobile transceiver connection cable, 5m 	OPC-2273 VHF marine transceiver connection cable, 5m 	OPC-2276 Microphone connection cable, 5m 	SR-VPN1 

IC-F51/F61 ATEX Intrinsically Safe Versions

Approved classes

The approved rating is

Gas: II2G Ex ib IIA T3 Gb

Dust: II2D Ex tD IIIC T160°C Db IP67

CE 0081 

II 2G Ex ib IIA T3 Gb
II 2D Ex tb IIIC T160°C Db IP67
(Tamb = -20°C to +55°C)

Special conditions for use: Must be used with BP-227AXD

Approved accessories : Speaker-microphone HM-138

Antenna FA-S59V, FA-S27U, Stubby antenna FA-S62VS, FA-S63VS, FA-S57US

Belt clip MB-96, MB-86, Leather belt hanger MB-96F

Applicable gas and vapor types

Temp.	T1	T2	T3
Class	Acetone, Ethane, Ethyl acetate, Ammonia, Benzene (pure), Acetic acid, Carbon monoxide, Methanol, Propane, Toluene	Ethyl alcohol, i-amyl acetate, n-butan, n-butyl alcohol	Benzene, Diesel-fuel, Aircraft-fuel, Heating-oil, n-hexane
IIA			

* Please ensure the IC-F51/F61 ATEX rating is acceptable for the intended place of use.

Please Note: The optional chargers are not approved as intrinsically safe.
Do not charge the BP-227AXD in an explosive atmosphere.

Icom, Icom Inc. and the Icom logo are registered trademarks of Icom Incorporated (Japan) in the United States, the United Kingdom, Germany, France, Spain, Russia, Japan and/or other countries. IDAS and IDAS logo are trademarks of Icom Incorporated. dPMR and the dPMR logo are trademarks of the dPMR MoU Association. Multi-Lingo is a trademark of Fylde Micro Ltd. All other trademarks are the properties of their respective holders.

Icom Inc. 1-1-32, Kami-minami, Hirano-ku, Osaka 547-0003, Japan Phone: +81 (06) 6793 5302 Fax: +81 (06) 6793 0013 www.icom.co.jp/world **Count on us!**

Icom America Inc.

2380 116th Avenue NE,
Bellevue, WA 98004, U.S.A.
Phone : +1 (425) 454-8155
Fax : +1 (425) 454-1509
E-mail : sales@icomamerica.com
URL : <http://www.icomamerica.com>

Icom Canada

Glenwood Centre #150-6165 Highway 17,
Delta, B.C., V4K 5B8, Canada
Phone : +1 (604) 952-4266
Fax : +1 (604) 952-0090
E-mail : info@icomcanada.com
URL : <http://www.icomcanada.com>

Icom Brazil

Rua Pernambuco, 353 - Sala 901
Belo Horizonte, M.G.
30130-150, Brazil
Phone : +55 (31) 3582 8847
Fax : +55 (31) 3582 8987
E-mail : sales@icombrasil.com

Icom (Europe) GmbH

Communication Equipment
Auf der Krautweide 24
65812 Bad Soden am Taunus, Germany
Phone : +49 (6196) 76685-0
Fax : +49 (6196) 76685-50
E-mail : info@icomeurope.com
URL : <http://www.icomeurope.com>

Icom Spain S.L.

Ctra. Rubi, No. 88 "Edificio Can Castanyer"
Bajos A 08174, Sant Cugat del Valles,
Barcelona, Spain
Phone : +34 (93) 590 26 70
Fax : +34 (93) 589 04 46
E-mail : icom@icomspain.com
URL : <http://www.icomspain.com>

Icom Polska

81-850 Sopot, ul. 3 Maja 54, Poland
Phone : +48 (58) 550 7135
Fax : +48 (58) 551 0484
E-mail : icompolska@compolska.com.pl
URL : <http://www.icompolska.com.pl>

Icom (UK) Ltd.

Blacksole House, Altira Park,
Herne Bay, Kent, CT6 6GZ, U.K.
Phone : +44 (0) 1227 741741
Fax : +44 (0) 1227 741742
E-mail : info@icomuk.co.uk
URL : <http://www.icomuk.co.uk>

Icom France s.a.s.

Zac de la Plaine,
1 Rue Brindejonc des Moulinais, BP 45804,
31505 Toulouse Cedex 5, France
Phone : +33 (5) 61 36 03 03
Fax : +33 (5) 61 36 03 00
E-mail : icom@icom-france.com
URL : <http://www.icom-france.com>

Icom (Australia) Pty. Ltd.

Unit 1 / 103 Garden Road,
Clayton, VIC 3168 Australia
Phone : +61 (03) 9549 7500
Fax : +61 (03) 9549 7505
E-mail : sales@icom.net.au
URL : <http://www.icom.net.au>

Icom New Zealand

146A Harris Road, East Tamaki,
Auckland, New Zealand
Phone : +64 (09) 274 4062
Fax : +64 (09) 274 4708
E-mail : inquiries@icom.co.nz
URL : <http://www.icom.co.nz>

Asia Icom Inc.

6F No. 68, Sec. 1 Cheng-Teh Road,
Taipei, Taiwan, R.O.C.
Phone : +886 (02) 2559 1899
Fax : +886 (02) 2559 1874
E-mail : sales@asia-icom.com
URL : <http://www.asia-icom.com>

Beijing Icom Ltd.

10C07 Long Silver Mansion, No.88, Yong Ding
Road, Haidian District, Beijing, 100039, China
Phone : +86 (010) 5889 5391/5392/5393
Fax : +86 (010) 5889 5395
E-mail : bjicom@bjicom.com
URL : <http://www.bjicom.com>

Your local distributor/dealer: