





# A COMPREHENSIVE RANGE OF PROFESSIONAL RADIO SOLUTIONS THAT MEET YOUR NEEDS FLEXIBLY

No matter what your communication needs may be, we have the system for you. We go beyond the traditional VHF and UHF two-way radios providing peace of mind and keep you connected anywhere and at anytime. Icom continues developing innovative solutions in response to diversifying user needs and can now offer a wide range of two-way radio platforms from analog, digital, wireless LAN, LTE to satellite as a true comprehensive wireless communications company.





## Satellite PTT

Satellite PTT (Push-To-Talk) is a two-way radio system that uses the Iridium® satellite network. It can be used as a communication tool in remote, isolated areas where there are no mobile phones or landline network infrastructure. Even if terrestrial network infrastructure is rendered unusable by human or natural disasters, Satellite PTT can provide a stable back-up, independent from other networks.



## LTE Radio

Icom's LTE radio system provides instantaneous, wide area communication using an LTE (4G) and 3G network\*. It doesn't require its own repeaters or IP network, therefore reducing the cost of building, and maintaining a wide area radio network. It enables full-duplex communication, which allows telephone style conversations as well as various types of calls such as individual, group and all call just like a traditional two-way radio, too.

\* Service availability depends on the country. Network coverage provided by a custom SIM card.



## WLAN Radio

Wireless LAN radio requires no licence to use and allows you to have simultaneous full-duplex communications over a WLAN network. It offers secure communications with encryption and different types of calls such as individual, all, area, priority, group, status calls and short data messaging. You can also connect an IP phone or conventional radio equipment when using it with the RoIP gateway.



## P25 Radio

Icom P25 radios meet public safety customers' demanding needs and afford them the opportunity to make the most of their budgets, with cost-effective digital two-way radio communications products. Communicating with Icom's P25 radios using conventional analog, digital, or mixed mode operation as well as optional Phase 1 and Phase 2 trunking allows customers the ability to upgrade their fleet at their own pace.



## Digital Radio

IDAS™ is Icom's digital land mobile radio system using the NXDN™ or dPMR™ common air interface. IDAS™ offers a complete system of handheld radios, mobile radios, repeaters, network interface/trunking controllers, remote communicator, system manager software and various accessories. IDAS™ is a proven total digital solution that system owners or operators can grow into as their time and budgets allow.



## Analog Radio

Radio technologies and know-how cultivated for over 50 years have been applied to professional analog radio products. Rugged, waterproof, easy to use, clear and powerful audio in a compact design, Icom's analog products provide high performance and reliable communication. They are cost effective solutions that you can rely on and help you improve productivity and efficiency.

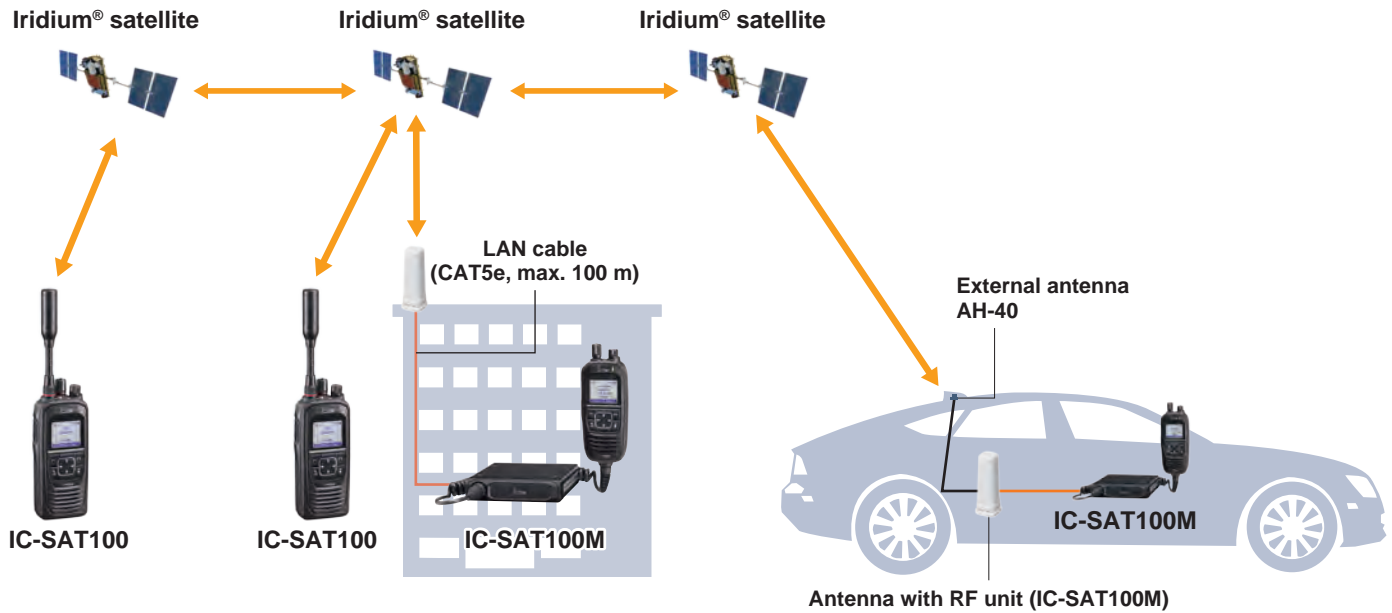


## RoIP Gateway

The VE-PG4, a versatile Radio over IP Gateway provides a seamless solution interconnecting various communication systems irrespective of standards and distance such as satellite PTT radio, LTE radio, WLAN radio, IDAS™ digital radio, analog radio, IP phone and more. The VE-PG4 works as general IP backbone converting received audio to transmit from other radio.

## Real-Time Communications Across the Globe

SATELLITE PTT (Push-To-Talk) is a two-way radio system that uses the Iridium® satellite network. It can be used as a communication tool in remote, isolated areas and the sea where there are no mobile phones or communications infrastructure. Even if the terrestrial network infrastructure is rendered unusable by human or natural disasters, SATELLITE PTT can provide a stable back-up, independent from other networks.

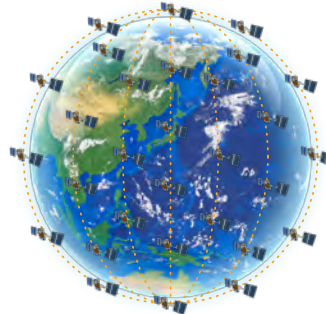


### One-to-Many Communications



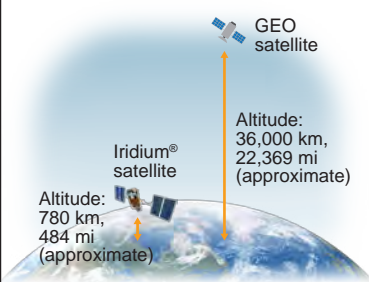
Unlike satellite phones, IC-SAT100/M users can immediately start talking to all the radios in the same talkgroup, with just a push of the transmit (PTT) button.

### Total Global Coverage, including the Poles\*1



The Iridium® satellite network covers the entire globe including both poles, and can provide wide area global communications anywhere on the planet.

### Real-Time, Low-Latency Communication



Using 66 Low Earth Orbit (LEO) Iridium® satellites, the IC-SAT100/M provides low-latency communication, and broader, more reliable network coverage, compared to Geosynchronous Equatorial Orbit (GEO) satellites.

### Conventional Radios and IP Phones Interconnection\*2



With a VE-PG4 RoIP gateway, the IC-SAT100/M can interconnect with an IP phone, IP, LTE, IDAS™ digital (Type-D multi-site trunking and conventional systems.) and analog transceivers.

\*1 Subscription contracts are required for using the IC-SAT100/M. Depending on the country or region, carrying and/or use of the IC-SAT100/M may be prohibited.

\*2 Optional VE-PG4 RoIP gateway and OPC-2412 connection cable are required for the IC-SAT100. Optional VE-PG4 RoIP gateway and a LAN cable are required for the IC-SAT100M.





## IC-SAT100 Satellite PTT Handheld

- IP67 waterproofing and dust-tight
- 1500 mW of powerful audio
- 14.5 hours of long lasting battery life\*
- Emergency key on the top panel
- Short Data Message
- Voice Recording function
- Built-in Bluetooth® capability
- SMA type antenna connection
- USB charging
- AES 256-bit encryption for security

\* TX : RX : standby = 5 : 5 : 90.

## IC-SAT100M Satellite PTT Mobile

- For in-vehicle and in-building applications
- Power supply capability over Ethernet from the main unit to the antenna (with RF unit)
- LAN cable (CAT5e, max. 100 m) connects antenna and main unit
- Supplied multi-functional speaker-microphone
- Power supply requirement: 13.2 V/26.4 V DC
- Antenna with RF unit : IP67, Microphone: IP55, Main unit: IP54
- 1500 mW powerful audio output
- Short Data Message • Emergency key
- Voice Recording function • Built-in Bluetooth® capability
- AES 256-bit encryption for security\*



Antenna with RF unit



Microphone ▶



◀ Main unit

\* Communication data is scrambled in the Ethernet section to prevent casual eavesdropping.





## Instant Wide Area Coverage Over an LTE (4G) and 3G Network\*

### Full-Duplex Communication

Icom's LTE Radios provide full-duplex conversation, which allow users to talk and receive at the same time. This allows smooth, telephone-like conversations.

### Multiple-user Communication

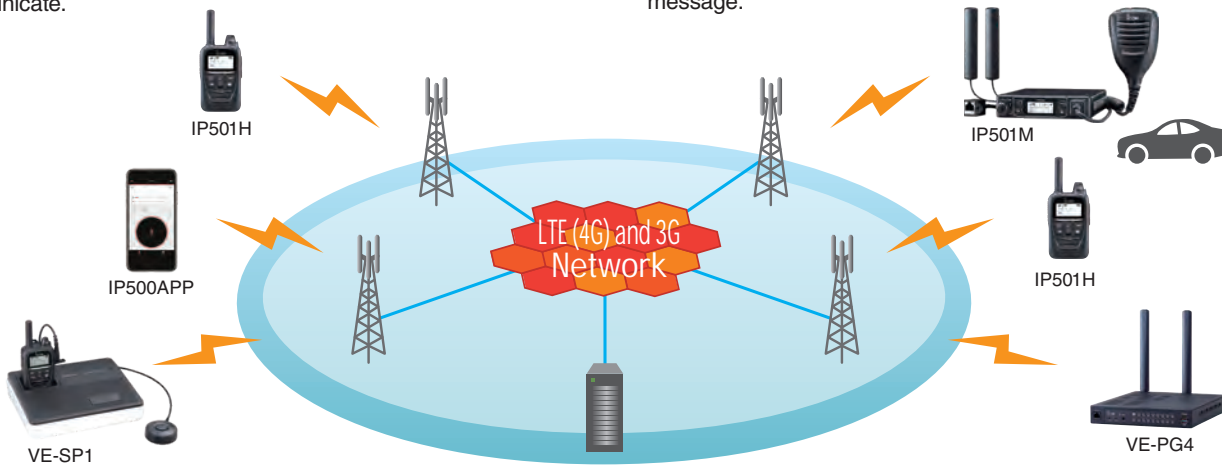
Multiple users in the call groups can initiate calls instantaneously. This removes the need to wait for available channels to communicate.

### One-to-many Communication

Unlike mobile cell phones, LTE radio users can immediately start talking to all the radios in the same talkgroup, with just a push of a "PTT" transmit button.

### Priority Interrupt Calling

Icom's LTE radios support group calls with three or more people. In case of an emergency, you can break into an on-going call to transmit an important message.



## IP501H

### Compact and Durable LTE Handheld

- IP67 waterproof and dust-tight
- Emergency Call, Lone Worker and Man Down functions
- Voice Record/Playback functions
- Vibration Alert function notifies of incoming calls
- Built-in Bluetooth® capability and GPS
- Full-Duplex communication
- 17 hours battery life (with BP-272)
- Provisioning/FOTA (Firmware Over-the-Air)



## IP501M

### Mobile LTE Radio Interoperable with the IP501H

- Built-in Bluetooth® capability and GPS
- Text message reception and preprogrammed message transmission
- An Ethernet port for data communication (The optional VE-PG4 is required.)
- Emergency call and Lone Worker functions
- Noise Cancelling function (TX only)
- IP54
- D-SUB 25-PIN connector with the optional OPC-2407 cable for interfacing other devices and various controls
- Both 12 and 24 volt compatible
- Provisioning/FOTA (Firmware Over-the-Air)

\* Service availability depends on the country. Network coverage provided by a custom SIM card.



## Full-Duplex Communication That Works Over a Wireless IP Network

### Wireless Communication System

By deploying access points across an existing IP network, the WLAN radio system allows you to communicate from anywhere in a facility. The IP100H can access the nearest access point, and roam between access points.

### Individual, Group, All or Area Communication

Staff spread across multiple rooms can communicate seamlessly. The IP communication terminal can receive short data messages with a vibration alert from a PC installed with IP100FS.

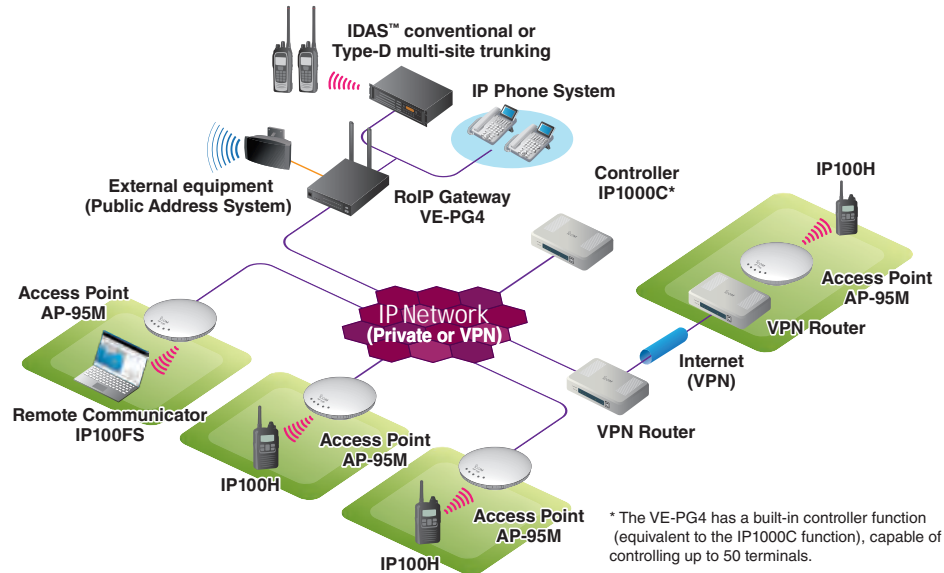
### Interconnect between IDAS™ and IP Phone Systems

With the VE-PG4 RoIP gateway, the WLAN radio system can interconnect with an IP phone system as well as digital, analog, LTE, and satellite radio systems.

### Hands-free, Full-duplex Communication

With an optional earphone-microphone or headset\*, the IP100H user can simultaneously talk and receive like a phone. Hands-free operation allows your staff to carry out other tasks at the same time.

\* For full-duplex operation, please use either HM-153LS, HM-166LS or HS-102 with OPC-2359.



## IP100H

### Compact and Professional Grade IP Communication Terminal

- Licence-free wireless LAN communication terminal using IEEE 802.11 a/b/g/n standards (2.4 GHz and 5 GHz\*)
- WPA-PSK/WPA2-PSK (TKIP/AES) authentication
- IPX7
- Vibration alert function announces incoming calls
- Text message reception and pre-programmed message transmission
- Status messages
- Emergency call function
- 20 hours battery life (with BP-271)
- Provisioning/FOTA (Firmware Over-the-Air)

\* Authorized frequency range and channels may differ depending on the country.



## AP-95M

### Wireless LAN Access Point

- IEEE 802.11 a/b/g/n/ac compliant\*
- PoE (Power over Ethernet) capability
- Optional RS-AP3, Access point management software

\* Authorized frequency range and channels may differ depending on the country.



## IP100FS

### Remote Communicator

- Obtain location information of each IP100H
- Can be installed on a Windows®-based tablet PC as well as laptop PC



## IP1000C

### Controller

- The IP1000C controls all terminal configurations over the air
- Capable of controlling up to 100 terminals (including IP100FS)

# P25 Handheld Radios



## IC-F7000 Series

### P25 Conventional and Trunking, Smallest and Lightest of Its Class

- P25 Phase 1/2 Trunking capabilities • 1024 channels • IP68
- Color display • Integrated GPS • Bluetooth® capability • microSD card slot
- Voice recording • OTAP • USB connector • Active noise canceller
- FIPS certified AES/DES encryption\* • OTAR • 14 hours battery life (with BP-284)
- Motion/Stationary sensor • Man down/Lone worker • Vibration alert • Voice announcement • 1300 mW loud audio

\* Optional



## IC-F9000 Series

### P25 Phase 1 Trunking and P25 Conventional Modes

- P25 Phase 1 Trunking capability • 512 channels • IP67 • Large multi-function full dot matrix display • 9 hours battery life (with BP-254)
- Man down/Lone worker • FIPS certified AES/DES encryption\* • OTAR
- 1000 mW loud audio

\* Optional





## IC-F7500 Series

### P25 Conventional and Phase 1/2 Trunking Rugged Mobile Radio with Superior Class Leading Audio



- P25 Phase 1/2 Trunking capabilities • 1024 channels
- Flexible configurations with detachable front panel • IP55
- Color display • Integrated GPS • Bluetooth® capability
- microSD card slot • Voice recording • OTAP • USB connector
- Active noise canceller • FIPS certified AES/DES encryption\* • OTAR
- Lone worker • Voice announcement

\* Optional



## IC-F9500 Series

### P25 Phase 1 Trunking and P25 Conventional Modes



- P25 Phase 1 Trunking capability • 512 channels • IP54
- Large multi-function full dot matrix display
- Controller separation capability • Lone worker
- FIPS certified AES/DES encryption\*
- OTAR • 22 W audio amplifier

\* Optional



## IC-F9511HT

### 110W RF Power, P25 Trunking and P25 Conventional Modes



- P25 Phase 1 Trunking capability • 512 channels • IP54 • Large multi-function full dot matrix display • Detachable front panel capability
- Lone worker • FIPS certified AES/DES encryption\* • OTAR
- 15 W audio amplifier

\* Optional



## IC-FR9000 Series

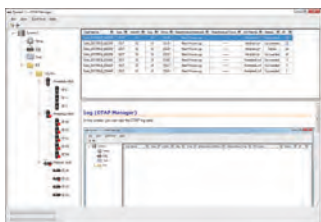
### P25 Conventional Repeater for Repeater and Base Modes



- 110 W/100 W (VHF/UHF) output power at 100% duty cycle operation
- 500 memory channels capacity and 16 key buttons • S-meter and output power bar graph display • D-SUB 25-pin accessory connector for remote control
- P25 conventional/FM mixed mode operation
- P25 self-test mode and key test mode • Automatic error detection

## CS-OTPM2

### Easily Reconfigure Radios with Over-the-Air Programming



- Radios can reconfigure in a short period of time by transmitting only the updates
- Up to 10,000 sessions are logged for review and rescheduling • Both original and new data can be kept in the radios until the OTAP process is completed
- System operator can change language setting of CS-OTPM2
- Manages up to 100,000 radios

\* Compatible models: IC-F7000/F7500 series

# IDAS™ Digital Radios



## Flexible Digital Migration Solutions with Advanced IP Network Integration

### Multiple-site Configurations

IDAS™ systems provide various digital radio solutions from simple peer to peer operation between two radios, up to multi-site wide area networks. Further coverage is enhanced with IP interconnection.

### Digital Clarity

By adopting the industry standard AMBE+2™ Vocoder and advanced FEC (Forward Error Correction) coding, IDAS™ systems provide improved communication quality, clarity and reliability.

### Effective System Management

Simple and efficient management is critical for systems of any size. IDAS™ provides effective system management with such features as OTAP and administration applications.

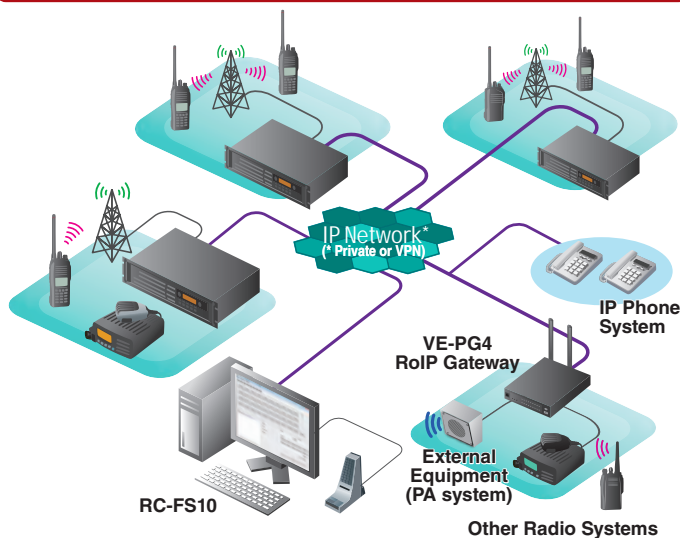
### NXDN™/dPMR™ Protocol Choice

The IDAS™ digital radio system has two protocol choices, NXDN™ or dPMR™. Both protocols are open digital radio standards using 6.25 kHz FDMA narrowband technology. With this flexible choice, the IDAS™ radio system allows for interoperability with other manufacturers equipment to add to/replace existing NXDN™ and/or dPMR™ systems.

### System Scalability According to Communication Traffic and Coverage

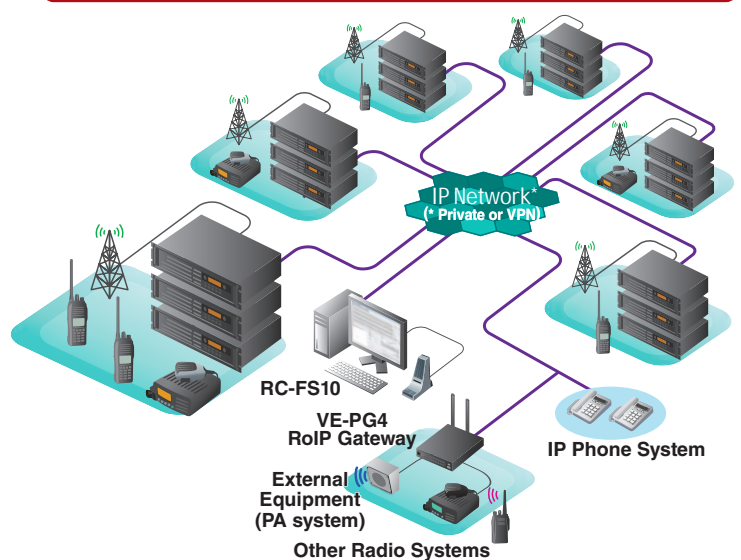
Depending on the communication traffic and coverage, an IDAS™ radio system can be expanded from single site conventional to multi-site trunking, to match your communication needs.

#### Multi-site Conventional



- 6.25 kHz digital migration
- Digital/analog mixed mode operation
- Up to 16 IDAS™ repeater sites connection over an IP network
- Telephone interconnection (with VE-PG4)

#### Type-D Multi-site Trunking



- Distributed channel system which does not use a dedicated control channel
- Up to 30 channels per site and up to 48 sites connection over an IP network
- Up to 60,000 individual IDs and 60,000 group IDs with fleet management
- Telephone interconnection (with VE-PG4)



# IDAS™ Simulcast System

## Maximum Spectrum Efficiency

Simulcast virtually works as a “big repeater,” overlapping areas with a single pair of frequencies, regardless of the number of sites in the network\*.

\*Maximum number of sites for an IDAS simulcast system is 32.

## Seamless Handover

Simulcast performs seamless roaming and handover, even during conversation without loss of communication, which is critical for emergency situations.

## Voting Selects the Best Quality Audio

The Master Repeater (Controller) analyzes received voice data from all the repeaters in the network, and then selects the best voice data to be transmitted down to terminals.

## Easy to Use and Easy to Set Up

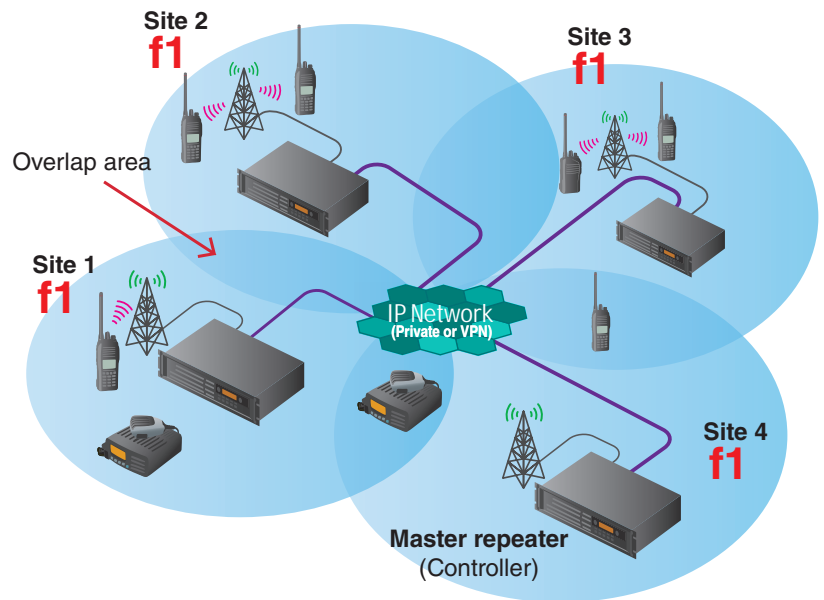
No terminals need to change the channel anywhere in the coverage area, no need to scan, no need for any complex settings to get in a simulcast network.

## Ideal Technology for Simulcast

6.25 kHz FDMA technology has a lower symbol rate than other technologies, so it has the advantage over voice quality degradation due to latency.

## Scalability and Flexibility

Easy to expand the coverage area just by adding repeaters. Those repeaters can be integrated into the network with no complexity (no re-programming terminals is necessary).



# IDAS™ Handheld Radios



## IC-F3400D/F4400D Series

### IDAS™ The Smart Digital Solution

- 1024 channels (32 channels for non-display models) • IP68 • Color display
- Integrated GPS • Bluetooth® capability • microSD card slot • Voice recording • OTAP • OAA
- USB connector • Active noise canceller • AES\*/DES encryption
- 10.5 hours battery life (with BP-283) • Motion/Stationary sensor • Man down/Lone worker
- Vibration alert • Voice announcement • 1300 mW loud audio

\* Optional



## IC-F3260D/F4260D Series

### Advanced Digital Radio with Built-in GPS Receiver\*

- 512 channels • IP67 • Large multi-function full dot matrix display • Integrated GPS\*
- 10.5 hours battery life (with BP-232WP) • Man down\*/Lone worker
- Status and short data message (SDM) • Remote monitor

\*Depending on the version.



## IC-F52D/F62D

### 5 W Power Pack, Super Compact Body

- 512 channels • IP67 • Full dot matrix display for 14 characters with status icons
- Bluetooth® capability • Voice recording • OTAP • OAA • Active noise canceller
- 13 hours battery life (with BP-290) • Motion/Stationary sensor • Man down/Lone worker
- Vibration alert • Voice announcement • 1300 mW loud audio



## IC-F1100D/F2100D Series

### Compact, Waterproof and Superior Audio Clarity

- 128 channels (16 channels for non-display models) • IP67 • Motion/Stationary sensor
- Man down/Lone worker • 18 hours battery life (with BP-280) • 1500 mW loud audio • OAA
- Voice announcement



## IC-F3230D/F4230D Series

### Waterproof Type-D Multi-Site Trunking Radio

- 128 channels • IP67 • NXDN™ Type-D multi-site trunking • Lone worker • 19/17 hours battery life (with BP-232WP, VHF/UHF) • 1000 mW loud audio • Voice announcement

\* IC-F3230DT/F4230DT are not available in some countries. (Not available in the USA.)



# IDAS™ Intrinsically Safe Radios



## IC-F3200DEX/F4200DEX Series

### IECEX/ATEX Intrinsically Safe Digital Radio

- 16 channels • IP67 • Digital/Analog
- Voice announcement • Man down/Lone worker
- Optional speaker-microphone
- 21/19.5 hours battery life (with BP-277EX, VHF/UHF)

#### ATEX Certifications

Mining: I M2 Ex ib I Mb  
Gas: II 2G Ex ib IIC T4 Gb  
Dust: II 2D Ex ib IIIC T110°C Db  
-20°C ≤ T<sub>a</sub> ≤ +55°C

#### IEC Certifications

Ex ib I Mb  
Ex ib IIC T4 Gb  
Ex ib IIIC T110°C Db  
-20°C ≤ T<sub>a</sub> ≤ +55°C

DO NOT use the transceiver with any other equipment not specified in the option list (Pages 22–26). Please ask your dealer to ensure the ATEX and IEC ratings are acceptable for the intended place of use.



## IC-F52D-UL/F62D-UL

### UL Approved Intrinsically Safe Digital Radio

- 512 channels • IP67 • Bluetooth® capability
- Voice recording • OTAP • OAA • Active noise canceller
- 10 hours battery life (with BP-292UL) • Motion/Stationary sensor • Man down/Lone worker • Vibration alert
- Voice announcement • 800 mW loud audio

#### UL Classification Rating

Intrinsically safe: Class I, Division 1, Groups C D; Class II, Division 1, Groups E F G; Class III, T3C.  
Non-incendive: Class I, Division 2, Groups A B C D.  
Ambient temperature: -20°C (-4°F) to +60°C (+140°F)  
Intrinsically Safe when used with BP-292UL battery pack.

DO NOT use the transceiver with any other equipment not specified in the option list (Pages 22–27). Please ask your dealer to ensure the UL Classification rating is acceptable for the intended place of use.



# IDAS™ Mobile Radios



## IC-F5400D/F6400D Series

### Superb Performance and a Comprehensive Range of Features

- 1024 channels (99 channels for segment display models)
- Flexible configurations with detachable front panel\*<sup>1</sup>
- IP55
- Color display\*<sup>1</sup>
- Integrated GPS
- Bluetooth® capability
- microSD card slot
- Voice recording
- OTAP
- OAA
- USB connector
- Active noise canceller
- AES\*<sup>2</sup>/DES encryption
- Lone worker
- Voice announcement

\*<sup>1</sup> For IC-F5400D/F6400D

\*<sup>2</sup> Optional



## IC-F5060D/F6060D Series

### Versatile, Multi-Function Mobile Series

- 512 channels
- Front panel detachable
- IP54
- Large multi-function full dot matrix display
- D-SUB 25-pin ACC connector
- Lone worker
- Status and short data message (SDM)
- Remote monitor



## IC-F5220D/F6220D

### Wide-Area Coverage with Type-D Multi-Site Trunking

- 128 channels
- NXDN™ Type-D multi-site trunking
- 4 W powerful front mounted speaker
- Lone worker
- Status and short data message (SDM)
- Remote monitor
- GPS receiver connection with optional ACC cable



## IC-F5120D/F6120D Series

### Solid Fundamental Digital Radio

- 128 channels
- 4 W powerful front mounted speaker
- Lone worker
- Status and short data message (SDM)
- Remote monitor
- GPS receiver connection with optional ACC cable





# Digital Repeaters / Virtual Radio / System Management



## IC-FR5300/FR6300

### Two Channels in One Box Repeater, Compatible with the Affordable, Low-Complexity Digital Simulcast

- Digital conventional mode and analog FM with auto selection
- 50 W at 50%, 25 W at 100% duty cycle operation (Ambient temperature: 25°C)
- With the optional UC-FR5300 #14 network controller and GNSS antenna, the IC-FR5300/FR6300 can be compatible with digital simulcast system.
- Optional network controllers for multi-site conventional or trunking system configuration
- “Two channels in one box” configuration with optional UR-FR5300/UR-FR6300



## IC-FR5200H/FR6200H

### 50 Watt Full Duty Cycle Operation

- 50 W at 100% duty cycle operation with the solid heatsink
- Digital conventional mode and analog FM with auto selection
- The Type-D multi-site trunking/conventional functions are integrated in the repeater\*
- D-SUB 25-pin accessory connector

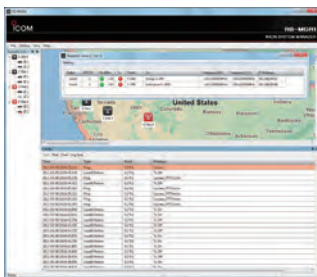
\* Multi-site conventional and Type-D trunking are not available depending on the version.



## RC-FS10

### Virtual Radio/PC Dispatch

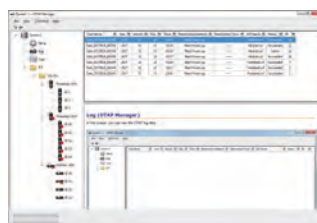
- PC remote communicator for IDAS™ conventional, NXDN™ Type-D multi-site trunking and analog radio systems (VE-PG4 is required for analog radio systems.)
- Up to eight different IDAS™ and analog radio systems can be programmed
- Up to 40 programmable buttons. Short data message, status and DTMF can be sent
- Caller ID, called ID, name and call type information are displayed
- Optional HM-152 or SM-26 microphone



## RS-MGR1

### Enhance System Management for NXDN™ Type-D Trunking Systems

- Provides real-time monitoring, system alerts and log search functions
- Repeater properties show condition summary, system information, interface (traffic statistics), repeater condition details and ping status of each repeater
- Registration log, communication log, traffic log and search log can be searched and downloaded with extensive filter settings



## CS-OTPM1

### Easily Reconfigure Radios with Over-The-Air Programming

- Remotely reconfigure radios while in the field
- Radios can be reconfigured in a short period of time by transmitting only the updates
- Single programming data can transmit to a whole fleet with only one click
- Up to 10,000 sessions are logged for review and rescheduling
- Manages up to 100,000 radios

\* Compatible models: IC-F3400D/F4400D series  
IC-F52D/F62D  
IC-F52D-UL/F62D-UL  
IC-F5400D/F6400D series

## Analog Radios



### IC-F1000/F2000 Series

#### Slim, Compact Dimensions with IP67 Waterproofing

- 128 channels (16 channels for the non-display model) • Motion/Stationary sensor
- Man down/Lone worker • 14 hours battery life (with BP-279) • 1500 mW loud audio
- Voice announcement • 16 codes inversion voice scrambler



### IC-F3000/F4000 Series

#### Affordable, High Performance Radio

- 16 channels • IP54 • Lone worker function • 14 hours battery life (with BP-264) • Built-in 2-Tone, 5-Tone, CTCSS and DTCS
- 800 mW (typ.) loud audio speaker • Internal VOX capability for hands-free operation



### IC-F5020/F6020 Series

### IC-F5010/F6010 Series

#### Hardworking Mobile Radios

- 2 models for display or non-display • 128 channels (IC-F5020/F6020 series) or 8 channels (IC-F5010/F6010 series) • Lone worker function • 4 W (typical) front mounted speaker
- External device connection with optional ACC cable

## Data Radios



### IC-F5122DD/F6122DD

#### General Purpose Transparent Data Modem

- 9600 bps (at 12.5 kHz) and 4800 bps (at 6.25 kHz) data mode
- 25 W, 10 W and 6 W three-step RF output power • TCP/IP protocol (IPv4) support for Ethernet
- Meets EN 300 113/EN 301 166 standards • Fast data transfer using 4-level FSK modulation

## HF Radio



### IC-F8101

#### A Professional HF, All in One Package

- 2G ALE (Automatic Link Establishment), MIL-STD-188-141B compatible • 125 W\* PEP output power (\* J3E/A1A modes depending on the transceiver version) • 100% duty cycle operation (SSB voice TX) • IP54 • 2400 bps MELPe/TWELP Vocoder and 256-bit AES encryption\* with RapidM TC4-LP (\* The function availability depending on the transceiver version)



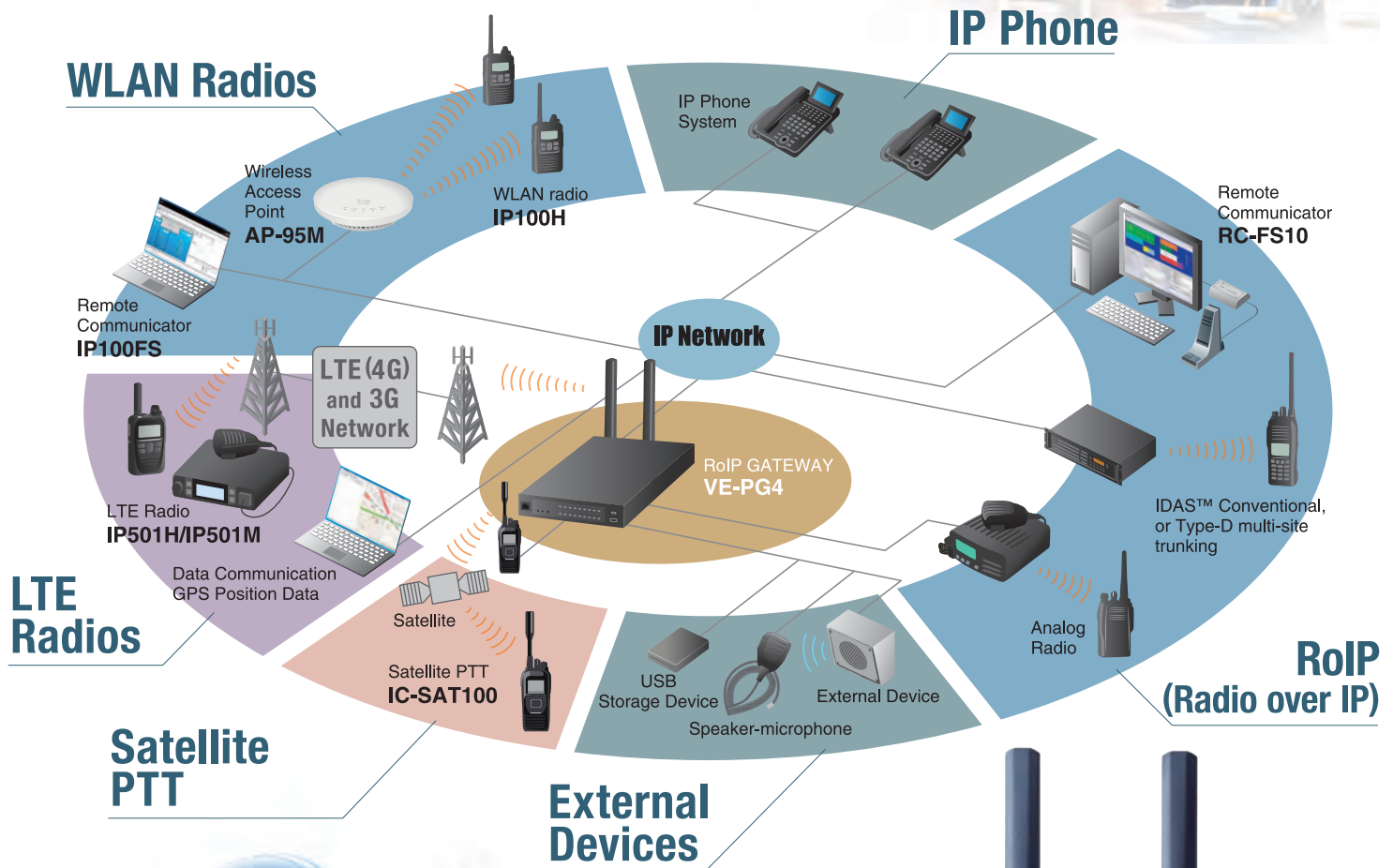
# RoIP Gateway

## Radio Gateway — Link LTE Radios to Digital/Analog Radios, Satellite PTT Radios, WLAN Radio, IP Phone and More

The VE-PG4 is a versatile RoIP (Radio over IP) gateway unit, which seamlessly interconnects various communication systems. The built-in LTE module\* provides virtually nationwide communication coverage.

\* Service availability depends on the country. Network coverage provided by a custom SIM card.

### Communication Links



**VE-PG4**





## P25 Handheld Radio Feature Comparison

	IC-F7000 SERIES				IC-F9000 SERIES	
	IC-F7010T IC-F7020T	IC-F7040T	IC-F7010S IC-F7020S	IC-F7040S	IC-F9011T IC-F9021T	IC-F9011S IC-F9021S
<b>Frequency Range</b>	136–174 MHz 380–470 MHz 450–512 MHz	769–869MHz	136–174 MHz 380–470 MHz 450–512 MHz	769–869MHz	136–174 MHz 380–470 MHz 450–520 MHz	
<b>Channels</b>	1024				512	
<b>Channel Spacing</b>	12.5/25 kHz	12.5/20/25 kHz	12.5/25 kHz	12.5/20/25 kHz	12.5/25 kHz or 15/30 kHz	
<b>Dimensions**</b> (W x H x D; Projections are not included)	53.6 x 123.5 x 38.2 mm; 2.1 x 4.9 x 1.5 in				58.6 x 167 x 41.8 mm; 2.3 x 6.6 x 1.6 in	
<b>Weight**</b> (approx.)	355 g; 12.5 oz	345 g; 12.2 oz	355 g; 12.5 oz	345 g; 12.2 oz	533 g; 1.2 lb	
<b>RF Output Power</b> (High)	5 W	3 W	5 W	3 W	6 W (VHF), 5 W (UHF)	
<b>IP Rating</b>	IP68				IP67	
<b>Operating Time**1*2</b> (hours)	14				9	
<b>Display</b>	Color LCD				Monochromatic LCD	
<b>Keypad</b>	Full		Limited		Full	Limited
<b>AF Output Power</b> (internal SP)	1300 mW typ.				1000 mW typ.	
<b>Analog Conventional</b>	Yes				Yes	
<b>P25 Conventional</b>	Yes				Yes	
<b>P25 Trunking</b>	<b>Phase 1 (FDMA)</b>		Optional		Optional	
	<b>Phase 2 (TDMA)</b>		Optional		No	
<b>Encryption</b>	<b>AES</b>		Optional		Optional	
	<b>DES</b>		Optional		Optional	
<b>FIPS 140-2 Level 1</b>	Optional				Optional	
<b>P25 Conventional Voting Scan</b>	Optional				No	
<b>P25 Packet Data Service</b>	Optional				No	
<b>OTAP Function</b>	Optional				No	
<b>CTCSS/DTCS</b>	Encoder/Decoder		Yes		Yes	
<b>2-Tone</b>	Encoder/Decoder		Yes		Yes	
<b>DTMF Autodial</b>	Yes				Yes	
<b>Analog Voice Scrambler (Inversion)</b>	Yes				Yes	
<b>MDC 1200</b>	Yes				Yes	
<b>Front Panel Programming</b>	Optional				Yes	
<b>Man Down</b>	Yes				Optional	
<b>Lone Worker</b>	Yes				Optional	
<b>Voice Announcement</b>	Yes				No	
<b>Vibration Alert</b>	Yes				No	
<b>Voice Recorder</b>	Yes				No	
<b>Bluetooth® Capability</b>	Yes				No	
<b>GPS Receiver</b>	Yes				No	

\*\*1 With standard battery pack

\*\*2 Conventional mode. 5:5:90 duty cycle, power save ON

All stated specifications and features are subject to change without notice or obligation.





## P25 Mobile Radio Feature Comparison

	IC-F7500 SERIES		F9500 SERIES		
	IC-F7510 IC-F7520	IC-F7540	IC-F9511T IC-F9521T	IC-F9511S IC-F9521S	IC-F9511HT
<b>Frequency Range</b>	136–174 MHz 380–470 MHz 450–512 MHz	769–869 MHz	136–174 MHz 380–470 MHz 450–520 MHz		136–174 MHz
<b>Channels</b>	1024		512		
<b>Channel Spacing</b>	12.5/25 kHz	12.5/20/25 kHz	12.5/25 kHz, 15/30 kHz		12.5/15/30 kHz
<b>Dimensions</b> (W x H x D; Projections are not included)	174 x 55 x 150 mm; 6.9 x 6.6 x 1.6 in		175 x 45 x 170 mm; 6.9 x 1.8 x 6.7 in		175 x 60 x 279 mm; 6.9 x 2.2 x 5.9 in*1
<b>Weight (approx.)</b>	1500 g; 3.3 lb		1.5 kg; 3.3 lb		4.7 kg; 10.4 lb*2
<b>RF Output Power (High)</b>	50 W (VHF) 45 W (UHF)	30 W (700 MHz) 35 W (800 MHz)	50 W		110 W
<b>IP Rating</b>	IP55		IP54*3		IP54
<b>Display</b>	Color LCD		Monochromatic LCD		
<b>Keypad</b>	Yes		Yes	No	Yes
<b>AF Output Power (internal SP)</b>	4 W typ.		External speaker only	4 W typ.	External speaker only
<b>Analog Conventional</b>	Yes		Yes		
<b>P25 Conventional</b>	Yes		Yes		
<b>P25 Trunking</b>	<b>Phase 1 (FDMA)</b>	Optional	Optional		
	<b>Phase 2 (TDMA)</b>	Optional	No		
<b>Encryption</b>	<b>AES</b>	Optional	Optional		
	<b>DES</b>	Optional	Optional		
<b>FIPS 140-2 Level 1</b>	Optional		Optional		
<b>P25 Conventional Voting Scan</b>	Optional		No		
<b>P25 Packet Data Service</b>	Optional		No		
<b>OTAP Function</b>	Optional		No		
<b>CTCSS/DTCS</b> Encoder/Decoder	Yes		Yes		
<b>2-Tone</b> Encoder/Decoder	Yes		Yes		
<b>DTMF Autodial</b>	Yes		Yes		
<b>Analog Voice Scrambler (Inversion)</b>	Yes		Yes		
<b>MDC 1200</b>	Yes		Yes		
<b>Front Panel Programming</b>	Optional		Yes		
<b>Lone Worker</b>	Yes		Yes		
<b>Voice Announcement</b>	Yes		No		
<b>Voice Recorder</b>	Yes		No		
<b>Bluetooth® Capability</b>	Yes		No		
<b>GPS Receiver</b>	Yes*4		No		
<b>Front Panel Separation</b>	Optional		Optional		Yes
<b>Multiple Controller Capability</b>	Yes		No		Yes
<b>COMMANDMIC™ Capability</b>	Yes		No		

\*1 RF unit

\*2 With controller and cable

\*3 Controller and RMK-2

\*4 UX-241 antenna is required.

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## IDAS™ Handheld Radio Feature Comparison

	IC-F3400D/IC-F4400D SERIES		IC-F3260D IC-F4260D SERIES	IC-F52D IC-F62D	IC-F1100D/IC-F2100D SERIES		IC-F3230D IC-F4230D SERIES	IC-F3202DEX IC-F4202DEX	IC-F52D-UL IC-F62D-UL
	IC-F3400DT/DS IC-F4400DT/DS	IC-F3400D IC-F4400D	IC-F3261DT/DS/3DT/DS IC-F4261DT/DS/3DT/DS	IC-F52D IC-F62D	IC-F1100DT/DS IC-F2100DT/DS	IC-F1100D IC-F2100D	IC-F3230DT/DS IC-F4230DT/DS	IC-F3202DEX IC-F4202DEX	IC-F52D-UL IC-F62D-UL
<b>Frequency Range</b>	136–174 MHz 380–470 MHz 450–512 MHz		136–174 MHz 350–400 MHz 400–470 MHz 450–512 MHz 450–520 MHz	136–174 MHz 350–400 MHz 400–470 MHz 450–512 MHz 450–520 MHz	136–174 MHz 350–400 MHz 400–470 MHz 450–520 MHz		136–174 MHz 350–400 MHz 400–470 MHz 450–512 MHz 450–520 MHz	136–174 MHz 400–470 MHz	136–174 MHz 350–400 MHz 400–470 MHz 450–512 MHz 450–520 MHz
<b>Channels</b>	1024*1	32	512	512	128		128	16	512
<b>Digital Channel Spacing</b>	6.25/12.5 kHz		6.25 kHz	6.25/12.5 kHz	6.25 kHz		6.25 kHz	6.25 kHz	6.25/12.5 kHz
<b>Dimensions**2</b> (mm; in) (W x H x D; Projections are not included)	53.6 x 123.5 x 29.3; 2.1 x 4.9 x 1.2		53.5 x 142.7 x 39.5; 2.1 x 5.6 x 1.6	56 x 91.5 x 29; 2.2 x 3.6 x 1.1	52.2 x 111.8 x 34.1; 2.1 x 4.4 x 1.3 (DT) 52.2 x 111.8 x 29.4; 2.1 x 4.4 x 1.2 (DS)	52.2 x 111.8 x 29.4 2.1 x 4.4 x 1.2	53 x 120 x 37; 2.1 x 4.7 x 1.5	63 x 144 x 50; 2.5 x 5.7 x 2.0	56 x 92 x 34.1; 2.2 x 3.6 x 1.3
<b>Weight**2</b> (approx.)	305 g; 10.8 oz (VHF) 300 g; 10.6 oz (UHF)		410 g; 14.5 oz (VHF) 400 g; 14.1 oz (UHF)	230 g; 8.1 oz	280 g; 9.9 oz (DT) 270 g; 9.5 oz (DS)	260 g; 9.2 oz	340 g; 12 oz	466 g (VHF) 460 g (UHF)	270 g; 9.5 oz
<b>RF Output Power</b> (High)	5 W		5 W	5 W	5 W (VHF), 4 W or 5 W* (UHF) *Depending on the version		5 W (VHF) 4 W (UHF)	1 W	5 W
<b>IP Rating</b>	IP68		IP67	IP67	IP67		IP67	IP67	IP67
<b>Operating Time**2*3</b> (hours)	10.5		12 (Non-GPS ver.) 10.5 (GPS ver.)	13	18		19 (VHF) 17 (UHF)	21.5 (VHF) 19 (UHF)	10
<b>Display</b>	Yes	No	Yes	Yes	Yes	No	Yes	No	Yes
<b>Keypad</b>	Yes	No	Yes	Yes	Yes	No	Yes	No	Yes
<b>AF Output Power</b> (internal SP)	1300 mW typ.		800 mW typ.	1300 mW typ.	1500 mW typ.		1000 mW typ.	400 mW typ.	800 mW typ.
<b>Intrinsically Safe</b>	No		No	No	No		No	IECEX/ATEX	UL
<b>Encryption</b>	DES	Yes	No	No	No		No	No	No
	AES	Optional	No	No	No		No	No	No
<b>Voice Scrambler</b> (Digital)	Yes		Yes	Yes	Yes		Yes	Yes	Yes
<b>Voice Scrambler</b> (Analog)**4	Yes		Yes	Yes	No		No	No	Yes
<b>OTAP</b> (Over-the-Air Programming)	Optional		No	Optional	No		No	No	Optional
<b>CTCSS/DTCS</b>	Encoder/Decoder	Yes	Yes	Yes	Yes		Yes	Yes	Yes
<b>2-Tone</b>	Encoder/Decoder	Yes	Yes	Yes	Yes		No	Yes	Yes
<b>5-Tone</b>	Encoder/Decoder	Yes	Yes	Yes	Yes		No	Yes	Yes
<b>DTMF Autodial</b>	Yes		Yes	Yes	Yes		No	Yes	Yes
<b>MDC 1200</b>	Yes		Yes	Yes	Yes**5		No	Yes**6	Yes
<b>Man Down</b>	Yes		Yes**7	Yes	Yes		No	Yes	Yes
<b>Motion Detection Sensor</b>	Yes		No	Yes	Yes		No	No	Yes
<b>Lone Worker</b>	Yes		Yes	Yes	Yes		Yes	Yes	Yes
<b>Voice Announcement</b>	Yes		No	Yes	Yes		Yes	Yes	Yes
<b>Vibration Alert</b>	Yes		No	Yes	No		No	No	Yes
<b>Voice Recorder</b>	Yes		No	Yes	No		No	No	Yes
<b>Bluetooth® Capability</b>	Yes		No	Yes	No		No	No	Yes
<b>GPS Receiver</b>	Yes		Yes**7	External	External		No	No	No
<b>Multi-Site Conventional</b>	Yes		Yes	Yes	Yes		Yes	Yes	Yes
<b>Type-D Single-site Trunking</b>	Optional		Yes	Optional	Yes		Yes	Yes	Optional
<b>Type-D Multi-site Trunking</b>	Optional		Yes	Optional	No		Yes	No	Optional





## IDAS™ Mobile Radio Feature Comparison

	IC-F5400D/IC-F6400D SERIES		IC-F5060D IC-F6060D SERIES	IC-F5220D IC-F6220D	IC-F5120D IC-F6120D SERIES
	IC-F5400D IC-F6400D	IC-F5400DS IC-F6400DS	IC-F5061D/3D IC-F6061D/3D	IC-F5220D IC-F6220D	IC-F5121D/3D IC-F6121D/3D
<b>Frequency Range</b>	136–174 MHz 380–470 MHz 450–512 MHz		136–174 MHz 350–400 MHz 400–470 MHz 450–512 MHz 450–520 MHz	136–174 MHz 350–400 MHz 400–470 MHz 450–512 MHz 450–520 MHz	136–174 MHz 350–400 MHz 400–470 MHz 450–512 MHz 450–520 MHz
<b>Channels</b>	1024*1	99	512	128	128
<b>Digital Channel Spacing</b>	6.25/12.5 kHz		6.25 kHz	6.25kHz	6.25 kHz
<b>Dimensions</b> (mm; in) (W x H x D; Projections are not included)	174 x 55 x 150; 6.9 x 2.2 x 5.9		160 x 45 x 150; 6.3 x 1.8 x 5.9	150 x 40 x 167.5; 5.9 x 1.6 x 6.6	150 x 40 x 167.5 ; 5.9 x 1.6 x 6.6
<b>Weight</b> (approx.)	1.5 kg; 3.3 lb		1.3 kg; 2.9 lb	1.1 kg; 2.4 lb	1.1 kg; 2.4 lb
<b>RF output power</b> (High)	50 W (VHF) 45W (UHF)		50 W (F5061D) 25 W (F5063D) 45 W (F6061D) 25 W (F6063D)	50 W (VHF) 45W (UHF)	50 W (VHF) 45W (UHF)
<b>IP Rating</b>	IP55		IP54*8	N/A	N/A
<b>Display</b>	Yes	2-digit numeric	Yes	Yes	Yes
<b>Keypad</b>	Yes		Yes	Yes	Yes
<b>AF Output Power</b> (internal SP)	4 W typ.		4 W typ.	4 W typ.	4 W typ.
<b>Encryption</b>	<b>DES</b>	Yes	No	No	No
	<b>AES</b>	Optional	No	No	No
<b>Voice Scrambler</b> (Digital)	Yes		Yes	Yes	Yes
<b>Voice Scrambler</b> (Analog)*4	Yes		Yes	No	No
<b>OTAP</b> (Over-the-Air Programming)	Optional		No	No	No
<b>CTCSS/DTCS</b>	<b>Encoder/Decoder</b>	Yes	Yes	Yes	Yes
<b>2-Tone</b>	<b>Encoder/Decoder</b>	Yes	Yes	No	Yes
<b>5-Tone</b>	<b>Encoder/Decoder</b>	Yes	Yes	No	Yes
<b>DTMF Autodial</b>	Yes		Yes	No	Yes
<b>MDC 1200</b>	Yes		Yes	No	Yes
<b>Lone Worker</b>	Yes		Yes	Yes	Yes
<b>Voice Announcement</b>	Yes		No	No	No
<b>Voice Recorder</b>	Yes		No	No	No
<b>Bluetooth® Capability</b>	Yes		No	No	No
<b>GPS Receiver</b>	Yes*9		No	No	No
<b>Front Panel Separation</b>	Optional	No	Optional	No	No
<b>Multiple Controller Capability</b>	Yes	No	No	No	No
<b>COMMANDMIC™ Capability</b>	Yes	No	No	No	No
<b>I/O Control Port</b>	USB, D-SUB		D-SUB	Optional*10	Optional*10
<b>Multi-Site Conventional</b>	Yes		Yes	Yes	Yes
<b>Type-D Single-site Trunking</b>	Optional		Yes	Yes	Yes
<b>Type-D Multi-site Trunking</b>	Optional		Yes	Yes	No

\*1 Upgrade licence(ISL-CHEX) required to enable 4000 channel capacity.

\*2 With standard battery pack

\*3 Conventional mode. 5:5:90 duty cycle, power save ON

\*4 Inversion type voice scrambler is not compatible with UT-109R/UT-110R voice scrambler.

\*5 PTT ID, emergency call, radio check (RX) and stun/revive (RX)

\*6 PTT ID and emergency call only

\*7 Depending on the version.

\*8 IP dust and water tests were performed on the controller and RMK-3 only.

\*9 UX-241 antenna is required.

\*10 D-SUB. Digital modulation input is not available even when using accessory cables.

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## Analog Radio Feature Comparison

	HANDHELD RADIOS				MOBILE RADIOS	
	IC-F1000T IC-F2000T	IC-F1000S IC-F2000S	IC-F1000 IC-F2000	IC-F3001/3 IC-F4001/3	IC-F5021/3/3H IC-F6021/3/3H	IC-F5011/3/3H IC-F6011/3/3H
<b>Frequency Range</b>	136–174 MHz			136–174 MHz	136–174 MHz	
	335–380 MHz 400–470 MHz 450–512 MHz 450–520 MHz			350–400 MHz 400–470 MHz 450–512 MHz 450–520 MHz	400–470 MHz 450–512 MHz 450–520 MHz	
<b>Channels</b>	128	128	16	16	128	8
<b>Channel Spacing</b>	12.5/25 kHz			12.5/25 kHz, 15/30 kHz	12.5/25 kHz, 15/30 kHz	
<b>Dimensions*<sup>1</sup></b> (W × H × D; Projections are not included)	52.2 × 111.8 × 24.5 mm; 2.1 × 4.4 × 1.0 in			56 × 97 × 36.4 mm; 2.3 × 4.4 × 1.4 in	150 × 40 × 167.5 mm; 5.9 × 1.6 × 6.6 in (50/45 W) 150 × 40 × 117.5 mm; 5.9 × 1.6 × 4.6 in (50/45 W)	
<b>Weight*<sup>1</sup></b> (approx.)	240 g; 8.5 oz			270 g; 9.5 oz	1.1 kg; 2.4 lb (50/45 W) 0.8 kg; 1.8 lb (25 W)	
<b>RF output power</b> (High)	VHF	5 W		5 W	50 W (F5021/3H) 25 W (F5023)	50 W (F5011/3H) 25 W (F5013)
	UHF	4 W		4 W	45 W (F6021/3H) 25 W (F6023)	45 W (F6011/3H) 25 W (F6013)
<b>IP Rating</b>	IP67			IP54	N/A	
<b>Operating Time*<sup>2</sup></b> (hours)	14			20 (w/ BP-265) 14 (w/ BP-264)	N/A	
<b>Display</b>	Yes	Yes	No	No	Yes	LED lighting
<b>Keypad</b>	Full	Limited	No	No	Yes	
<b>AF Output Power</b> (internal SP)	1500 mW typ.			800 mW typ.	4 W typ.	
<b>Voice Scrambler</b>	Yes			No	Optional	
<b>CTCSS/DTCS</b> Encoder/Decoder	Yes			Yes	Yes	
<b>2-Tone</b> Encoder/Decoder	Yes			Yes	Yes	
<b>5-Tone</b> Encoder/Decoder	Yes			Yes	Yes	
<b>DTMF Autodial</b>	Yes			Yes	Yes	
<b>MDC 1200</b>	Yes* <sup>3</sup>			Yes* <sup>5</sup>	Yes* <sup>6</sup>	
<b>Man Down</b>	Yes			No	No	
<b>Lone Worker</b>	Yes			Yes	Yes	
<b>Motion Detection Sensor</b>	Yes			No	No	
<b>Voice Announcement</b>	Yes			No	No	
<b>Stun/Kill/Revive</b>	Yes* <sup>4</sup>			Yes* <sup>4</sup>	Yes* <sup>4</sup>	
<b>Remote Monitor</b>	Yes* <sup>4</sup>			Yes* <sup>4</sup>	Yes* <sup>4</sup>	

\*<sup>1</sup> With standard battery pack

\*<sup>2</sup> 5:5:90 duty cycle, power save ON

\*<sup>3</sup> PTT ID, emergency (TX/RX), radio check (RX),  
stun/revive (RX), transmit status messages only

\*<sup>4</sup> RX only


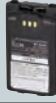







\*<sup>5</sup> PTT ID and emergency only










\*<sup>6</sup> PTT ID, emergency (TX/RX), radio check (RX),  
stun/revive (RX) only










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# Optional Accessories for Handheld Radios








	BATTERY PACKS								
MODEL NAME	<b>BP-277EX</b> Li-ion 7.4 V/1800 mAh (min.) 1900 mAh (typ.) 	<b>BP-292UL</b> Li-ion 7.2 V/1910 mAh (min.) 2010 mAh (typ.) 	<b>BP-300</b> Li-ion 7.2 V/2200 mAh (min.) 2350 mAh (typ.) 	<b>BP-283</b> Li-ion 7.2 V/1910 mAh (min.) 2010 mAh (typ.) 	<b>BP-284</b> Li-ion 7.2 V/3070 mAh (min.) 3210 mAh (typ.) 	<b>BP-254</b> Li-ion 7.4 V/2900 mAh (min.) 3040 mAh (typ.) 	<b>BP-290</b> Li-ion 7.2 V/1910 mAh (min.) 2010 mAh (typ.) 	<b>BP-294</b> Li-ion 7.2 V/3050 mAh (min.) 3150 mAh (typ.) 	<b>BP-280</b> Li-ion 7.2 V/2280 mAh (min.) 2400 mAh (typ.) 
IC-SAT100									
IP501H									
IP100H									
IC-F7010T/S, IC-F7020T/S, IC-F7040T/S									
IC-F9011T/S, IC-F9021T/S									
IC-F3400DT/DS/D, IC-F4400DT/DS/D									
IC-F3261DT/DS, IC-F3263DT/DS IC-F4261DT/DS, IC-F4263DT/DS									
IC-F52D, IC-F62D									
IC-F1100DT/DS/D, IC-F2100DT/DS/D									
IC-F3230DT/DS, IC-F4230DT/DS									
IC-F3201DEX, IC-F3203DEX IC-F4201DEX, IC-F4203DEX									
IC-F52D-UL, IC-F62D-UL									
IC-F1000T/S, IC-F2000T/S									
IC-F3001, IC-F3003 IC-F4001, IC-F4003									

	BATTERY PACKS					BATTERY CASES			
MODEL NAME	<b>BP-279</b> Li-ion 7.2 V/1485 mAh (min.) 1570 mAh (typ.) 	<b>BP-278</b> Li-ion 7.2 V/1130 mAh (min.) 1190 mAh (typ.) 	<b>BP-232WP</b> Li-ion 7.4 V/2200 mAh (min.) 2350 mAh (typ.) 	<b>BP-265</b> Li-ion 7.4 V/1850 mAh (min.) 2000 mAh (typ.) 	<b>BP-264</b> Ni-MH 7.2 V/1400 mAh 	<b>BP-271</b> Li-ion 7.4 V/1150 mAh (min.) 1200 mAh (typ.) <b>BP-272</b> Li-ion 7.4 V/1880 mAh (min.) 2000 mAh (typ.) 	<b>BP-237</b> LR6 (AA) x6 cells 	<b>BP-291</b> LR6 (AA) x5 cells 	<b>BP-240</b> LR03 (AAA) x6 cells 
IC-SAT100									
IP501H									
IP100H									
IC-F7010T/S, IC-F7020T/S, IC-F7040T/S									
IC-F9011T/S, IC-F9021T/S									
IC-F3400DT/DS/D, IC-F4400DT/DS/D									
IC-F3261DT/DS, IC-F3263DT/DS IC-F4261DT/DS, IC-F4263DT/DS									
IC-F52D, IC-F62D									
IC-F1100DT/DS/D, IC-F2100DT/DS/D									
IC-F3230DT/DS, IC-F4230DT/DS									
IC-F3201DEX, IC-F3203DEX IC-F4201DEX, IC-F4203DEX									
IC-F52D-UL, IC-F62D-UL									
IC-F1000T/S, IC-F2000T/S									
IC-F3001, IC-F3003 IC-F4001, IC-F4003									







	BATTERY CASES			CHARGERS					
MODEL NAME	<b>BP-261</b> LR6 (AA) x6 cells 	<b>BP-263</b> LR6 (AA) x6 cells 	<b>BP-273</b> LR6 (AA) x3 cells 	<b>BC-212EX</b> Rapid charger 	<b>BC-241</b> Rapid charger 	<b>BC-219N</b> Rapid charger 	<b>BC-225</b> Intelligent charger 	<b>BC-226</b> Rapid charger Connectable type 	<b>BC-227</b> Rapid charger 
IC-SAT100									
IP501H									
IP100H									
IC-F7010T/S, IC-F7020T/S, IC-F7040T/S									
IC-F9011T/S, IC-F9021T/S									
IC-F3400DT/DS/D, IC-F4400DT/DS/D									
IC-F3261DT/DS, IC-F3263DT/DS IC-F4261DT/DS, IC-F4263DT/DS									
IC-F52D, IC-F62D									
IC-F1100DT/DS/D, IC-F2100DT/DS/D									
IC-F3230DT/DS, IC-F4230DT/DS									
IC-F3201DEX, IC-F3203DEX IC-F4201DEX, IC-F4203DEX				*					
IC-F52D-UL, IC-F62D-UL								*	*
IC-F1000T/S, IC-F2000T/S									
IC-F3001, IC-F3003 IC-F4001, IC-F4003									

\* The battery charger, BC-212EX, BC-226, or BC-227 must not be used in an explosive atmosphere.  
 The IC-F3201DEX/F3203DEX/F4201DEX/F4203DEX Intrinsically Safe models should only be used with the specified Intrinsically Safe approved options.  : Applicable  : Not applicable  
 The IC-F52D-UL/F62D-UL models should only be used with the specified approved options.

# Optional Accessories for Handheld Radios

MODEL NAME	CHARGERS								READER SOFTWARE
	BC-119NS Rapid charger AD-110 is supplied with the BC-119NS.	BC-213 Rapid charger	BC-160 Rapid charger	BC-171 Regular charger	BC-191 Rapid charger for BP-264 <b>BC-193</b> Rapid charger for BP-265	BC-192 Regular charger for BP-264	BC-202 Rapid charger <b>BC-202IP2</b> Rapid charger with smart charging function	BC-218 Rapid charger with Bluetooth® function	
IC-SAT100					 <small>(Photo shows BC-191)</small>		 <small>(Photo shows BC-202IP2)</small>		
IP501H									
IP100H									
IC-F7010T/S, IC-F7020T/S, IC-F7040T/S									(Use with BC-225)
IC-F9011T/S, IC-F9021T/S									
IC-F3400DT/DS/D, IC-F4400DT/DS/D									(Use with BC-225)
IC-F3261DT/DS, IC-F3263DT/DS IC-F4261DT/DS, IC-F4263DT/DS									
IC-F52D, IC-F62D									(Use with BC-225)
IC-F1100DT/DS/D, IC-F2100DT/DS/D									
IC-F3230DT/DS, IC-F4230DT/DS									
IC-F3201DEX, IC-F3203DEX IC-F4201DEX, IC-F4203DEX									
IC-F52D-UL, IC-F62D-UL									
IC-F1000T/S, IC-F2000T/S									
IC-F3001, IC-F3003 IC-F4001, IC-F4003									

MODEL NAME	MULTI-CHARGERS					AC ADAPTERS			
	BC-214N AD-140 is supplied with the BC-214N.	BC-214 Either AD-130 or AD-132N is supplied with the BC-214.	BC-121NS AD-110 is supplied with the BC-121NS.	BC-197 Either AD-120, AD-121 or AD-122 is supplied with the BC-197.	BC-211	BC-242 12 V/1 A	BC-123S*2 12 V/1 A	BC-147S*2 12 V/250 mA	BC-157S 12 V/7.5 A
IC-SAT100									
IP501H					(AD-127 installed)				(Use with BC-214N)
IP100H					(AD-127 installed)				(Use with BC-211)
IC-F7010T/S, IC-F7020T/S, IC-F7040T/S		(#22/23, AD-132N installed)							(Use with BC-211)
IC-F9011T/S, IC-F9021T/S									(Use with BC-214)
IC-F3400DT/DS/D, IC-F4400DT/DS/D		(#22/23, AD-132N installed)							(Use with BC-214)
IC-F3261DT/DS, IC-F3263DT/DS IC-F4261DT/DS, IC-F4263DT/DS				(#22/23, AD-122 installed)					(Use with BC-197)
IC-F52D, IC-F62D		(#22/23, AD-132N installed)							(Use with BC-214)
IC-F1100DT/DS/D, IC-F2100DT/DS/D		(#02/03, AD-130 installed)							(Use with BC-214)
IC-F3230DT/DS, IC-F4230DT/DS				(#22/23, AD-122 installed)					(Use with BC-197)
IC-F3201DEX, IC-F3203DEX IC-F4201DEX, IC-F4203DEX									(Use with BC-197)
IC-F52D-UL, IC-F62D-UL									(Use with BC-214)
IC-F1000T/S, IC-F2000T/S		(#02/03, AD-130 installed)							(Use with BC-214)
IC-F3001, IC-F3003 IC-F4001, IC-F4003				(AD-120 or AD-121 installed)*1					(Use with BC-197)

MODEL NAME	AC ADAPTERS	CHARGER CABLES		DC POWER CABLES		
	BC-228 15 V/4 A	BC-207S 12 V/4.2 A	CP-23L For 12 V DC	CP-22 With DC-DC CONVERTER	OPC-515L	OPC-656
IC-SAT100						
IP501H		(Use with BC-218)	(Use with BC-218)	(Use with BC-218)		(Use with BC-214N)
IP100H						
IC-F7010T/S, IC-F7020T/S, IC-F7040T/S			(Use with BC-219N or BC-227)		(Use with BC-219N, BC-225 or BC-227)	(Use with BC-214)
IC-F9011T/S, IC-F9021T/S						
IC-F3400DT/DS/D, IC-F4400DT/DS/D	(Use with BC-226)		(Use with BC-219N or BC-227)		(Use with BC-219N, BC-225 or BC-227)	(Use with BC-214)
IC-F3261DT/DS, IC-F3263DT/DS IC-F4261DT/DS, IC-F4263DT/DS			(Use with BC-160)		(Use with BC-160 or BC-171)	(Use with BC-197)
IC-F52D, IC-F62D	(Use with BC-226)		(Use with BC-219N or BC-227)		(Use with BC-219N, BC-225 or BC-227)	(Use with BC-214)
IC-F1100DT/DS/D, IC-F2100DT/DS/D			(Use with BC-213)			(Use with BC-214)
IC-F3230DT/DS, IC-F4230DT/DS			(Use with BC-160)		(Use with BC-160 or BC-171)	(Use with BC-197)
IC-F3201DEX, IC-F3203DEX IC-F4201DEX, IC-F4203DEX						
IC-F52D-UL, IC-F62D-UL	(Use with BC-226)		(Use with BC-227)		(Use with BC-227)	
IC-F1000T/S, IC-F2000T/S			(Use with BC-213)			(Use with BC-214)
IC-F3001, IC-F3003 IC-F4001, IC-F4003			(Use with BC-191 or BC-193)		(Use with BC-191, BC-192 or BC-193)	(Use with BC-197)

\*1 #02/03 for AD-120, #12/13 for AD-121



# Optional Accessories for Handheld Radios

## SPEAKER-MICROPHONES

MODEL NAME	HM-203EX IP67	HM-184UL IP67	HM-222 IP68	HM-184/H IP67	HM-233GP GPS IP67	HM-168LWP Waterproof connector IP67	HM-158LA	HM-159LA	HM-171GPW Waterproof connector IP67 GPS
IC-SAT100									
IP501H									
IP100H									
IC-F7010T/S, IC-F7020T/S, IC-F7040T/S									
IC-F9011T/S, IC-F9021T/S									
IC-F3400DT/DS/D, IC-F4400DT/DS/D									
IC-F3261DT/DS, IC-F3263DT/DS IC-F4261DT/DS, IC-F4263DT/DS									
IC-F52D, IC-F62D									
IC-F1100DT/DS/D, IC-F2100DT/DS/D									
IC-F3230DT/DS, IC-F4230DT/DS									
IC-F3201DEX, IC-F3203DEX IC-F4201DEX, IC-F4203DEX									
IC-F52D-UL, IC-F62D-UL									
IC-F1000T/S, IC-F2000T/S									
IC-F3001, IC-F3003 IC-F4001, IC-F4003									

## SPEAKER-MICROPHONES

## EARPHONE-MICROPHONES

## TIE-CLIP MICROPHONE

MODEL NAME	HM-183LS IPX7	HM-186LS	HM-215	HM-153LA	HM-166LA	HM-153LS	HM-166LS	HM-163MC
IC-SAT100								
IP501H			(Use with BC-218)					
IP100H						*3	*3	
IC-F7010T/S, IC-F7020T/S, IC-F7040T/S								*4
IC-F9011T/S, IC-F9021T/S								
IC-F3400DT/DS/D, IC-F4400DT/DS/D								
IC-F3261DT/DS, IC-F3263DT/DS IC-F4261DT/DS, IC-F4263DT/DS								
IC-F52D, IC-F62D								
IC-F1100DT/DS/D, IC-F2100DT/DS/D								
IC-F3230DT/DS, IC-F4230DT/DS								
IC-F3201DEX, IC-F3203DEX IC-F4201DEX, IC-F4203DEX								
IC-F52D-UL, IC-F62D-UL								
IC-F1000T/S, IC-F2000T/S								
IC-F3001, IC-F3003 IC-F4001, IC-F4003								

## HEADSETS

MODEL NAME	HS-94 Earhook type with boom microphone	HS-94LWP Earhook type with waterproof connector	HS-95 Behind-the-head type	HS-95LWP Behind-the-head type with waterproof connector	HS-97 Throat microphone type	HS-102 Earphone type	VS-3 Bluetooth® headset
IC-SAT100	(Use with VS-5MC)		(Use with VS-5MC)		(Use with VS-5MC)		
IP501H	** (Use with OPC-200LS or OPC-2328)		** (Use with OPC-200LS or OPC-2328)		** (Use with OPC-200LS or OPC-2328)	(Use with OPC-2359)	
IP100H	** (Use with OPC-200LS or OPC-2328)		** (Use with OPC-200LS or OPC-2328)		** (Use with OPC-200LS or OPC-2328)	*3 (Use with OPC-2359)	
IC-F7010T/S, IC-F7020T/S, IC-F7040T/S	** (Use with VS-4MC or VS-5MC)		** (Use with VS-4MC or VS-5MC)		** (Use with VS-4MC or VS-5MC)		
IC-F9011T/S, IC-F9021T/S	(Use with VS-4MC or VS-1MC)		(Use with VS-4MC or VS-1MC)		(Use with VS-4MC or VS-1MC)		
IC-F3400DT/DS/D, IC-F4400DT/DS/D	(Use with VS-4MC)		(Use with VS-4MC)		(Use with VS-4MC)		
IC-F3261DT/DS, IC-F3263DT/DS IC-F4261DT/DS, IC-F4263DT/DS	(Use with VS-4MC)		(Use with VS-4MC)		(Use with VS-4MC)		
IC-F52D, IC-F62D	(Use with VS-5MC)		(Use with VS-5MC)		(Use with VS-5MC)		
IC-F1100DT/DS/D, IC-F2100DT/DS/D	(Use with VS-4LA or OPC-2004LA)		(Use with VS-4LA or OPC-2004LA)		(Use with VS-4LA or OPC-2004LA)		
IC-F3230DT/DS, IC-F4230DT/DS	(Use with VS-4LA)		(Use with VS-4LA)		(Use with VS-4LA)		
IC-F3201DEX, IC-F3203DEX IC-F4201DEX, IC-F4203DEX							
IC-F52D-UL, IC-F62D-UL							
IC-F1000T/S, IC-F2000T/S	(Use with VS-4LA or OPC-2004LA)		(Use with VS-4LA or OPC-2004LA)		(Use with VS-4LA or OPC-2004LA)		
IC-F3001, IC-F3003 IC-F4001, IC-F4003	(Use with VS-4LA or OPC-2004LA)		(Use with VS-4LA or OPC-2004LA)		(Use with VS-4LA or OPC-2004LA)		

\*3 Requires either HM-153LS, HM-166LS or HS-102 with OPC-2359 for full-duplex operation. \*4 For IC-F7040T/S only.

\*\* HS-94, HS-95 and HS-97 headsets are simplex mode operation only. \*\* VS-4MC for IC-F7010/F7020 series, VS-5MC for IC-F7040 series.

: Applicable  : Not applicable

# Optional Accessories for Handheld Radios

MODEL NAME	PTT SWITCH CABLES					VOX/PTT CASE	PLUG ADAPTER CABLES		EARPHONES
	<b>VS-4MC</b> For manual PTT operation	<b>VS-5MC</b> For manual PTT, VOX operation	<b>VS-4LA</b> For manual PTT operation	<b>OPC-2328</b> For manual PTT operation	<b>OPC-2359</b>	<b>VS-1MC</b>	<b>OPC-2004LA</b> For VOX operation	<b>OPC-2006LS</b> For VOX operation	<b>EH-15B</b> 2.5 mm plug
IC-SAT100		(Use with HS-94, HS-95 or HS-97)							(Use with HM-163MC)
IP501H				(Use with HS-94, HS-95 or HS-97)	(Use with HS-102)			(Use with HS-94, HS-95 or HS-97)	
IP100H				(Use with HS-94, HS-95 or HS-97)	(Use with HS-102)			(Use with HS-94, HS-95 or HS-97)	
IC-F7010T/S, IC-F7020T/S, IC-F7040T/S	*2 (Use with HS-94, HS-95 or HS-97)	*4 (Use with HS-94, HS-95 or HS-97)							*8 (Use with HM-163MC)
IC-F9011T/S, IC-F9021T/S	(Use with HS-94, HS-95 or HS-97)					(Use with HS-94, HS-95 or HS-97)			
IC-F3400DT/DS/D, IC-F4400DT/DS/D	(Use with HS-94, HS-95 or HS-97)								
IC-F3261DT/DS, IC-F3263DT/DS, IC-F4261DT/DS, IC-F4263DT/DS	(Use with HS-94, HS-95 or HS-97)								
IC-F52D, IC-F62D		(Use with HS-94, HS-95 or HS-97)							(Use with HM-163MC)
IC-F1100DT/DS/D, IC-F2100DT/DS/D			(Use with HS-94, HS-95 or HS-97)				(Use with HS-94, HS-95 or HS-97)		
IC-F3230DT/DS, IC-F4230DT/DS			(Use with HS-94, HS-95 or HS-97)						
IC-F3201DEX, IC-F3203DEX, IC-F4201DEX, IC-F4203DEX									
IC-F52D-UL, IC-F62D-UL									
IC-F1000T/S, IC-F2000T/S			(Use with HS-94, HS-95 or HS-97)				(Use with HS-94, HS-95 or HS-97)		
IC-F3001, IC-F3003, IC-F4001, IC-F4003			(Use with HS-94, HS-95 or HS-97)				(Use with HS-94, HS-95 or HS-97)		

MODEL NAME	EARPHONES					ACC ADAPTERS		BELT CLIPS	
	<b>SP-26</b> 2.5 mm plug	<b>SP-27</b> 3.5 mm plug	<b>SP-28</b> 2.5 mm plug	<b>SP-29</b> 3.5 mm plug	<b>SP-32</b> Tube earphone adapter	<b>SP-40</b> 3.5 mm plug	<b>AD-118</b> Allows you to use 6-pin Hirose plug accessories	<b>AD-135</b> 3.5 mm jack earphone adapter	<b>MB-94EX</b> Alligator type
IC-SAT100	(Use with HM-163MC)	(Use with HM-222 or AD-135)	(Use with HM-163MC)	(Use with HM-222 or AD-135)	(Use with EH-15B)	(Use with HM-222 or AD-135)			
IP501H									
IP100H									
IC-F7010T/S, IC-F7020T/S, IC-F7040T/S	*4 (Use with HM-163MC)	*8 (Use with HM-222 or AD-135)	*4 (Use with HM-163MC)	*8 (Use with HM-222 or AD-135)	*8 (Use with EH-15B)	*4 (Use with HM-222 or AD-135)		*4	
IC-F9011T/S, IC-F9021T/S									
IC-F3400DT/DS/D, IC-F4400DT/DS/D									
IC-F3261DT/DS, IC-F3263DT/DS, IC-F4261DT/DS, IC-F4263DT/DS									
IC-F52D, IC-F62D	(Use with HM-163MC)	(Use with HM-222 or AD-135)	(Use with HM-163MC)	(Use with HM-222 or AD-135)	(Use with EH-15B)	(Use with HM-222 or AD-135)			
IC-F1100DT/DS/D, IC-F2100DT/DS/D									
IC-F3230DT/DS, IC-F4230DT/DS									
IC-F3201DEX, IC-F3203DEX, IC-F4201DEX, IC-F4203DEX									
IC-F52D-UL, IC-F62D-UL									
IC-F1000T/S, IC-F2000T/S									
IC-F3001, IC-F3003, IC-F4001, IC-F4003									

MODEL NAME	BELT CLIPS		BELT HANGERS			CHARGER BRACKET	MOUNT BASE	BRACKET ADAPTOR	CARRYING CASES
	<b>MB-135 MB-127 MB-124 MB-115 MB-98 MB-94R MBB-3 MBB-5</b> Alligator type	<b>MB-136 MB-93</b> Swivel type	<b>MB-96N</b> Swivel type	<b>MB-96F</b> Fixed type	<b>MB-96FL</b> Long type	<b>MB-130</b>	<b>MBF-1</b> For use with BC-218	<b>MBA-7</b> For use with BC-218	<b>LC-191</b> <sup>*9</sup>
IC-SAT100	(Use MBB-5)								
IP501H	(Use MB-135)						(Use with MBA-7)	(Use with MBF-1)	
IP100H	(Use MB-127)								
IC-F7010T/S, IC-F7020T/S, IC-F7040T/S	(Use MB-133)	(Use MB-136)							
IC-F9011T/S, IC-F9021T/S	(Use MB-115)								
IC-F3400DT/DS/D, IC-F4400DT/DS/D	(Use MB-133)	(Use MB-136)							
IC-F3261DT/DS, IC-F3263DT/DS, IC-F4261DT/DS, IC-F4263DT/DS	(Use MB-94R)	(Use MB-93)				(Use with BC-160)			
IC-F52D, IC-F62D	(Use MBB-3)	(Use MB-136)							
IC-F1100DT/DS/D, IC-F2100DT/DS/D	(Use MB-133)					(Use with BC-213)			
IC-F3230DT/DS, IC-F4230DT/DS	(Use MB-94R)	(Use MB-93)				(Use with BC-160)			
IC-F3201DEX, IC-F3203DEX, IC-F4201DEX, IC-F4203DEX									
IC-F52D-UL, IC-F62D-UL	(Use MBB-3)	(Use MB-136)							
IC-F1000T/S, IC-F2000T/S	(Use MB-133)					(Use with BC-213)			
IC-F3001, IC-F3003, IC-F4001, IC-F4003	(Use MB-124)					(Use with BC-191, BC-192 or BC-193)			

\*9 For IC-F7010/F7020 series only \*8 For IC-F7040T/S only \*9 Charging is possible while the case is attached.



# Optional Accessories for Handheld Radios

MODEL NAME	CARRYING CASES						STRAP	DOCKING STATION
	LC-184*9	LC-186*9	LC-187*9 For use with BP-290 LC-190*9 For use with BP-294 <small>(Photo shows LC-187)</small>	LC-188 For use with BP-290	LC-183*9 For use with BP-271	LC-185*9 For use with BP-272	MB-57L Long shoulder strap	BC-247*11 Charging cradle
IC-SAT100								
IP501H							(Use with LC-183 or LC-185)	
IP100H								
IC-F7010T/S, IC-F7020T/S, IC-F7040T/S								
IC-F9011T/S, IC-F9021T/S								
IC-F3400DT/DS/D, IC-F4400DT/DS/D	*10	*10						
IC-F3261DT/DS, IC-F3263DT/DS IC-F4261DT/DS, IC-F4263DT/DS								
IC-F52D, IC-F62D								
IC-F1100DT/DS/D, IC-F2100DT/DS/D								
IC-F3230DT/DS, IC-F4230DT/DS								
IC-F3201DEX, IC-F3203DEX IC-F4201DEX, IC-F4203DEX								
IC-F52D-UL, IC-F62D-UL								
IC-F1000T/S, IC-F2000T/S								
IC-F3001, IC-F3003 IC-F4001, IC-F4003								

MODEL NAME	ANTENNAS						CUT ANTENNAS	
	FA-S81V 136-150 MHz FA-S82V 148-162 MHz FA-S83V 160-174 MHz FA-S81U 380-430 MHz FA-S82U 430-480 MHz FA-S83U 470-520 MHz	FA-S25V 136-148 MHz FA-S65V 148-160 MHz FA-S66V 160-174 MHz FA-S30U 380-430 MHz FA-S58U 430-470 MHz FA-S75U 470-520 MHz	FA-SC25V 136-150 MHz FA-SC55V 150-174 MHz FA-SC25U 400-430 MHz FA-SC57U 430-470 MHz FA-SC72U 470-520 MHz	FA-SC28V 148-162 MHz FA-SC29V 160-174 MHz	FA-SC01U 350-400 MHz FA-SC02U 330-380 MHz FA-SC03U 380-430 MHz	FA-S100U 760-870 MHz	FA-S67VC 136-174 MHz FA-S76UC 380-520 MHz	FA-SC61VC 136-174 MHz FA-SC61UC 380-520 MHz
IC-SAT100								
IP501H								
IP100H								
IC-F7010T/S, IC-F7020T/S, IC-F7040T/S								
IC-F9011T/S, IC-F9021T/S								
IC-F3400DT/DS/D, IC-F4400DT/DS/D								
IC-F3261DT/DS, IC-F3263DT/DS IC-F4261DT/DS, IC-F4263DT/DS					(Use FA-SC01U or FA-SC03U)			
IC-F52D, IC-F62D			(Except FA-SC55V)		(Use FA-SC01U)			
IC-F1100DT/DS/D, IC-F2100DT/DS/D					(Use FA-SC01U or FA-SC02U)			
IC-F3230DT/DS, IC-F4230DT/DS					(Use FA-SC01U or FA-SC03U)			
IC-F3201DEX, IC-F3203DEX IC-F4201DEX, IC-F4203DEX								
IC-F52D-UL, IC-F62D-UL			(Except FA-SC55V)		(Use FA-SC01U)			
IC-F1000T/S, IC-F2000T/S					(Use FA-SC02U)			
IC-F3001, IC-F3003 IC-F4001, IC-F4003					(Use FA-SC01U or FA-SC03U)			








MODEL NAME	HIGH GAIN ANTENNAS	STUBBY ANTENNAS			SATELLITE + GPS ANTENNAS		
	FA-SC62V 150-160 MHz FA-SC63V 155-165 MHz	FA-S81VS 136-150 MHz FA-S82VS 148-162 MHz FA-S83VS 160-174 MHz FA-S81US 400-450 MHz FA-S82US 450-490 MHz	FA-SC26VS 136-144 MHz FA-SC27VS 142-150 MHz FA-SC56VS 150-162 MHz FA-SC57VS 160-174 MHz FA-SC26US 400-450 MHz FA-SC73US 450-490 MHz	FA-S102U	AH-38 OPC-2113 optional coaxial cable required.	AH-40 1.5 m; 16.4 ft cable length	AH-41 Can be set maximum 55 m; 180.4 ft away from the radio.* Supplied with OPC-2422 and DC power supply. * Coaxial cable (10D-HFA) required.
IC-SAT100							
IP501H							
IP100H							
IC-F7010T/S, IC-F7020T/S, IC-F7040T/S							
IC-F9011T/S, IC-F9021T/S							
IC-F3400DT/DS/D, IC-F4400DT/DS/D							
IC-F3261DT/DS, IC-F3263DT/DS IC-F4261DT/DS, IC-F4263DT/DS							
IC-F52D, IC-F62D							
IC-F1100DT/DS/D, IC-F2100DT/DS/D							
IC-F3230DT/DS, IC-F4230DT/DS							
IC-F3201DEX, IC-F3203DEX IC-F4201DEX, IC-F4203DEX							
IC-F52D-UL, IC-F62D-UL							
IC-F1000T/S, IC-F2000T/S							
IC-F3001, IC-F3003 IC-F4001, IC-F4003							

\*9 Charging is possible while the case is attached. \*10 LC-184 for use with IC-F3400DT/DS, F4400DT/DS. LC-186 for use with IC-F3400D, F4400D.

\*11 Comes with DC power cable, AC adapter and adapter cable (DC to AC).

: Applicable  : Not applicable

# Optional Accessories for Handheld Radios

MODEL NAME	COAXIAL CABLES		ZONE COPY CABLES			APPLICATION	SPEAKERPHONE UNIT
	<b>OPC-2422</b> For AH-40 and AH-41 (5 m; 16.4 ft)	<b>OPC-2113</b> For AH-38 (10 m; 32.8 ft)	<b>OPC-1870</b> Handheld to handheld	<b>OPC-1871</b> Handheld to mobile	<b>OPC-2362</b> Handheld to mobile	<b>IP500APP</b> LTE radio mobile application* <sup>12</sup>	<b>VE-SP1</b>
							
IC-SAT100							
IP501H							
IP100H							
IC-F7010T/S, IC-F7020T/S, IC-F7040T/S							
IC-F9011T/S, IC-F9021T/S							
IC-F3400DT/DS/D, IC-F4400DT/DS/D							
IC-F3261DT/DS, IC-F3263DT/DS							
IC-F4261DT/DS, IC-F4263DT/DS							
IC-F52D, IC-F62D							
IC-F1100DT/DS/D, IC-F2100DT/DS/D							
IC-F3230DT/DS, IC-F4230DT/DS							
IC-F3201DEX, IC-F3203DEX							
IC-F4201DEX, IC-F4203DEX							
IC-F52D-UL, IC-F62D-UL							
IC-F1000T/S, IC-F2000T/S							
IC-F3001, IC-F3003							
IC-F4001, IC-F4003							










\*<sup>12</sup> For iOS™: iOS™ version 12 or later. For Android™: Android™ version 8.0 or later. This service may not be available depending on the country/region.





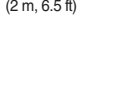


# Optional Accessories for Mobile Radios

MODEL NAME	HAND MICROPHONES								
	<b>HM-220</b> Heavy-duty type <b>IP54</b>	<b>HM-220T</b> Heavy-duty type with DTMF keypad <b>IP54</b>	<b>HM-221</b> <b>IP55</b>	<b>HM-221T</b> DTMF keypad type <b>IP55</b>	<b>HM-211</b> Active Noise Canceling	<b>HM-152</b>	<b>HM-152T</b> DTMF keypad type	<b>HM-148G</b> Heavy-duty type	<b>HM-148T</b> Heavy-duty type with DTMF keypad
									
IC-SAT100M									
IP501M									
IC-F7510, IC-F7520, IC-F7540									
IC-F9511T/S, IC-F9521T/S									
IC-F9511HT									
IC-F5400D, IC-F6400D									
IC-F5400DS, IC-F6400DS									
IC-F5061/D, IC-F5063/D									
IC-F6061/D, IC-F6063/D									
IC-F5220D, IC-F6220D									
IC-F5121D, IC-F5123D									
IC-F6121D, IC-F6123D									
IC-F5021, IC-F5023/H									
IC-F6021, IC-F6023/H									
IC-F5011, IC-F5013/H									
IC-F6011, IC-F6013/H									

MODEL NAME	SPEAKER MICROPHONE	HEADSET	DESKTOP MICROPHONES		EXTERNAL SPEAKERS	SEPARATION KITS			
	<b>HM-241</b>	<b>VS-3</b> Bluetooth® headset	<b>SM-29</b>	<b>SM-26</b> <b>SM-28</b>	<b>SP-30</b>	<b>SP-35</b> With 2 m; 6.5 ft cable <b>SP-35L</b> With 6 m; 19.7 ft cable	<b>RMK-5</b>	<b>RMK-7</b> Dual-head	<b>RMK-2</b>
									
IC-SAT100M									
IP501M				(Use SM-28)					
IC-F7510, IC-F7520, IC-F7540							(Separation cable is required)	(Separation cable is required)	
IC-F9511T/S, IC-F9521T/S				(Use SM-28)					(OPC-609 is required)
IC-F9511HT				(Use SM-28)					
IC-F5400D, IC-F6400D				(Use SM-28)			(Separation cable is required)	(Separation cable is required)	
IC-F5400DS, IC-F6400DS				(Use SM-28)					
IC-F5061/D, IC-F5063/D				(Use SM-28)					
IC-F6061/D, IC-F6063/D				(Use SM-28)					
IC-F5220D, IC-F6220D				(Use SM-28)					
IC-F5121D, IC-F5123D				(Use SM-28)					
IC-F6121D, IC-F6123D				(Use SM-28)					
IC-F5021, IC-F5023/H				(Use SM-28)					
IC-F6021, IC-F6023/H				(Use SM-28)					
IC-F5011, IC-F5013/H				(Use SM-28)					
IC-F6011, IC-F6013/H				(Use SM-28)					

# Optional Accessories for Mobile Radios

MODEL NAME	SEPARATION KITS	COMMANDMIC™		SEPARATION CABLES			GPS ANTENNA	ACC CABLES	
	<b>RMK-3</b> 	<b>HM-218</b> Secondary controller for use with RMK-5 	<b>HM-230HB</b> 	<b>OPC-2367</b> 8 m; 26.2 ft <b>OPC-2366</b> 5 m; 16.4 ft <b>OPC-2365</b> 3 m; 9.8 ft <b>OPC-2364</b> 1.9 m; 6.2 ft 	<b>OPC-2373</b> 1.9 m; 6.2 ft <b>OPC-2374</b> 8 m; 26.2 ft 	<b>OPC-608</b> 8 m; 26.2 ft <b>OPC-726</b> 5 m; 16.4 ft <b>OPC-607</b> 3 m; 9.8 ft <b>OPC-609</b> 1.9 m; 6.2 ft 	<b>UX-241</b> 5 m; 16.4 ft cable length 	<b>OPC-1939</b> D-SUB 15-pin type 	<b>OPC-2078</b> D-SUB 25-pin type 
IC-SAT100M									
IP501M									
IC-F7510, IC-F7520, IC-F7540		(Separation cable is required)		(Use with RMK-5 or RMK-7)	(Use with HM-218)				
IC-F9511T/S, IC-F9521T/S						(Use with RMK-2)			
IC-F9511HT									
IC-F5400D, IC-F6400D		(Separation cable is required)		(Use with RMK-5 or RMK-7)	(Use with HM-218)				
IC-F5400DS, IC-F6400DS									
IC-F5061/D, IC-F5063/D, IC-F6061/D, IC-F6063/D						(Use with RMK-3)			
IC-F5220D, IC-F6220D								*13	*13
IC-F5121D, IC-F5123D, IC-F6121D, IC-F6123D								*13	*13
IC-F5021, IC-F5023/H, IC-F6021, IC-F6023/H									
IC-F5011, IC-F5013/H, IC-F6011, IC-F6013/H									

MODEL NAME	ACC CABLES	ZONE COPY CABLES	MICROPHONE CABLES	SAT ANTENNA	COAXIAL CABLE		
	<b>OPC-2407</b> D-SUB 25-pin type 	<b>OPC-2362</b> Mobile to handheld 	<b>OPC-1871</b> Mobile to handheld <b>OPC-1532</b> Mobile to mobile  (Photo shows OPC-1871)	<b>OPC-2355</b> 2.5 m; 8.2 ft cable length 	<b>OPC-2429</b> For use with the supplied speaker microphone (2 m, 6.5 ft) 	<b>AH-40</b> Satellite + GPS antenna (1.5 m; 16.4 ft cable) 	<b>OPC-2422</b> For AH-40 (5 m; 16.4 ft) 
IC-SAT100M							
IP501M				(Use with HM-230HB or HM-241)			
IC-F7510, IC-F7520, IC-F7540							
IC-F9511T/S, IC-F9521T/S							
IC-F9511HT							
IC-F5400D, IC-F6400D							
IC-F5400DS, IC-F6400DS							
IC-F5061/D, IC-F5063/D, IC-F6061/D, IC-F6063/D							
IC-F5220D, IC-F6220D							
IC-F5121D, IC-F5123D, IC-F6121D, IC-F6123D							
IC-F5021, IC-F5023/H, IC-F6021, IC-F6023/H							
IC-F5011, IC-F5013/H, IC-F6011, IC-F6013/H							

\*13 Digital modulation input is not available even when using accessory cables.

# Activation Keys for Handheld and Mobile Radios







MODEL NAME	ACTIVATION KEYS							
	<b>ISL-3</b> APCO P25 Trunking Phase 1	<b>ISL-P25TR</b> APCO P25 Trunking Phase 1	<b>ISL-P25P2</b> APCO P25 Trunking Phase 2	<b>ISL-P25AES</b> AES Encryption Activation Key	<b>ISL-P25VS</b> APCO P25 Conventional Voting Scan	<b>ISL-P25DS</b> APCO P25 Packet Data Service (GPS/Text)	<b>ISL-P25FP</b> Front Panel Programming	<b>ISL-P25W</b> 25 kHz Activation Key (for USA version transceivers)
IC-F7010T/S, IC-F7020T/S, IC-F7040T/S				(Use with UT-134)				
IC-F9011T/S/B, IC-F9021T/S/B								
IC-F7510, IC-F7520, IC-F7540				(Use with UT-134)				
IC-F9511HT/S, IC-F9521T/S								

MODEL NAME	ACTIVATION KEYS				
	<b>ISL-UGMTR</b> NXDN™ Type-D Trunking Upgrade Key	<b>ISL-AKAES</b> AES Encryption Activation Key	<b>ISL-CHEX</b> Channel Expansion Key increases channel number up to 4000	<b>ISL-AKSTM</b> Dealer Set Mode Activation Key	<b>ISL-AK25K</b> 25 kHz Activation Key (for USA version transceivers)
IC-F3400DT/DS/D, IC-F4400DT/DS/D		(Use with UT-134)			
IC-F52D, IC-F62D					
IC-F52D-UL, IC-F62D-UL					
IC-F5400D/DS, IC-F6400D/DS		(Use with UT-134)			

: Applicable  : Not applicable











## Optional Accessories for Repeaters

	CHANNEL MODULES	NETWORK CONTROLLER	IDAS™ SOFTWARE			GPS ANTENNA
<b>MODEL NAME</b>	<b>UR-FR5300</b> 136–174 MHz, 50 W <b>UR-FR6300</b> 330–400, 400–470, 450–512, 450–520 MHz, 50 W 	<b>UC-FR5300</b> <sup>*14</sup> 	<b>CF-FR5000MC</b> Multi-site conventional software for UC-FR5300 	<b>CF-FR5000MT</b> NXDN™ Type-D Multi-site trunking software for UC-FR5300 	<b>CF-FR5300SC</b> Simulcast multi-site conventional software for UC-FR5300 	<b>UX-241</b> 5 m; 16.4 ft cable length 
IC-FR9010, IC-FR9020						
IC-FR5300, IC-FR6300			(Use with UC-FR5300)	(Use with UC-FR5300)	(Use with UC-FR5300)	
IC-FR5200H, IC-FR6200H						

	HAND MICROPHONE	DESKTOP MICROPHONE	EXTERNAL SPEAKER
<b>MODEL NAME</b>	<b>HM-152</b> 	<b>SM-26</b> 	<b>SP-35</b> With 2 m; 6.5 ft cable <b>SP-35L</b> With 6 m; 19.7 ft cable 
IC-FR9010, IC-FR9020			
IC-FR5300, IC-FR6300			
IC-FR5200H, IC-FR6200H			

<sup>\*14</sup> The following versions are available.  
<sup>#11</sup>: CF card not included (Type-D single-site trunking)  
<sup>#12</sup>: CF-FR5000MC included  
<sup>#13</sup>: CF-FR5000MT included  
<sup>#14</sup>: CF-FR5300SC included

## Optional Accessories for RoIP Gateway and IP Products

	AC ADAPTERS		AUDIO CONNECTION CABLES					
<b>MODEL NAME</b>	<b>BC-2075</b> 12 V/4.2 A 	<b>BC-1475</b> <sup>*15</sup> 12 V/0.25 A 	<b>OPC-2273</b> For VHF marine transceiver 5 m; 16.4 ft 	<b>OPC-2390</b> For IC-FR5000 series 5 m; 16.4 ft 	<b>OPC-2275</b> For mobile transceiver 5 m; 16.4 ft 	<b>OPC-2276</b> For HM-152 or SM-26 5 m; 16.4 ft 	<b>OPC-2389</b> For RS-232 serial connection 5 m; 16.4 ft 	<b>OPC-2412</b> For IC-SAT100 5 m; 16.4 ft 
VE-PG4								
AP-95M								
IP100FS		(Use with CT-23)						
RC-FS10		(Use with CT-23)						








	SPEAKER-MICROPHONE	HAND MICROPHONES			DESKTOP MICROPHONE	DIGITAL VOICE CONVERTER	MICROPHONE ADAPTER	ACCESS POINT MANAGER
<b>MODEL NAME</b>	<b>HM-241</b> 	<b>HM-152</b> 	<b>HM-152T</b> DTMF keypad type 	<b>HM-216</b> Short cable <sup>*17</sup> 	<b>SM-26</b> 	<b>CT-24</b> For more than five digital radio connections 	<b>CT-23</b> 	<b>RS-AP3</b> 
VE-PG4		*16	*16	*16	*16			
AP-95M								
IP100FS		(Use with CT-23 and BC-1475)			(Use with CT-23 and BC-1475)		(Use with SM-26 or HM-152)	
RC-FS10		(Use with CT-23 and BC-1475)			(Use with CT-23 and BC-1475)		(Use with SM-26 or HM-152)	








<sup>\*15</sup> BC-1475SA for the USA plug, SE for European plug, SV for Australian plug.

<sup>\*16</sup> The HM-152, HM-152T, HM-216 and SM-26 has no Speaker function. An external speaker is required to be connected to the VE-PG4 to hear received audio with these accessories.

<sup>\*17</sup> The HM-216 has a total of 490 mm cable length including a 300 mm curl code, while the HM-152 has a total of 900 mm cable length.

# Optional Accessories for HF Radio

	HAND MICROPHONE	REMOTE CONTROL MIC	SEPARATION KIT	SEPARATION CABLES	AUTOTUNING ANTENNA	EXTERNAL SPEAKERS	
<b>MODEL NAME</b>	<b>HM-193</b> 	<b>HM-192</b> 	<b>RMK-6</b> For controller attached version 	<b>OPC-608</b> 8 m; 26.2 ft <b>OPC-726</b> 5 m; 16.4 ft <b>OPC-607</b> 3 m; 9.8 ft <b>OPC-609</b> 1.9 m; 6.2 ft 	<b>AH-740</b> 2.5–30 MHz Compact type 	<b>SP-30</b> 	<b>SP-35</b> With 2 m; 6.5 ft cable <b>SP-35L</b> With 6 m; 19.7 ft cable 
IC-F8101							

	GPS UNIT	GPS/MODEM CABLE	ANTENNA TUNER	ANTENNA ELEMENT	SHIELDED CONTROL CABLE	MOUNTING BRACKET	COOLING FAN
<b>MODEL NAME</b>	<b>UX-248</b> Can be used with Enhanced version. 	<b>OPC-2308</b> 	<b>AT-140</b> 	<b>AH-2b</b>  <small>(Use with AT-140)</small>	<b>OPC-2309</b> 10 m; 32.8 ft  <small>(Use with AT-140)</small>	<b>MB-126</b> 	<b>CFU-F8100</b> 
IC-F8101							

Some options may not be available in some countries. Please ask your dealer for details.  
Read all instructions enclosed with the transceiver carefully and completely before using the transceiver.

: Applicable     : Not applicable





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