Company Profile

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

Icom quality and reliability

Over 50 years of engineering and production excellence is a part of every Icom product. Using the latest manufacturing technology, 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 also comply with the European RoHS directive and intrinsic safety standards.

Icom, a global brand name

Icom is recognised as a leading 2-way radio global brand name around the world. Our land mobile radios are used by many professional organizations all over the world, including public safety, security and humanitarian organizations.

Made in Japan

Icom is a rare example of a Japanese electronic manufacturer that has not shifted production abroad, but has kept its production base in Japan. The Wakayama Icom plants have advanced production systems to produce small or large volume/multi-model wireless communication products.

Icom’s worldwide network

Icom products are sold across the globe. Icom has an international sales and service network, including sales subsidiaries in the U.S., Canada, Australia, Germany and Spain. Icom is there to support and service your communication needs.

INDEX

Digital

Analogue

Professional Licence-Free

IP ADVANCED RADIO SYSTEM

RoIP/VPN
Icom Radio Systems

dPMR™ licenced digital radio system

The IDAS dPMR digital radio system utilizes a 6.25 kHz FDMA digital radio protocol which meets the ETSI dPMR technical standards and provides spectrum efficient true 6.25 kHz very narrow channel spacing. The IDAS dPMR system is scalable from Mode 1 direct peer to peer, Mode 2 conventional repeater mode up to Mode 3 high traffic trunking systems with IP network multi-site connectivity.

VE-PG3 RoIP Gateway

The VE-PG3 RoIP gateway provides simplified cross system/cross band/cross protocol connection between VHF/UHF land mobile, marine VHF and air band frequencies. The VE-PG3 can convert analogue/digital audio and vice versa for mixed mode operation. It can interconnect various systems, such as IDAS dPMR and NXDN™ system, IP advanced radio system using wireless LAN frequencies, and IP phones and analogue phone systems.
* Cross band/cross category operation may be prohibited in some countries.

IP Advanced Radio System

The IP501H IP advanced radio system provides nationwide communication using a cellular network and instantaneous communication with PTT operation. The IP100H IP advanced radio system is a licence-free, full duplex communication system that works over a wireless LAN or IP network. Both systems offer cost effective communication, and can be easily installed with minimum maintenance.
Digital Handheld Radios

Supplied Accessories
- Battery pack, BP-283
- Belt clip, MB-133
- Antenna

VHF DIGITAL TRANSCEIVERS
IC-F3400DPT/DPS/DP (5 W)

UHF DIGITAL TRANSCEIVERS
IC-F4400DPT/DPS/DP (5 W)

FEATURES
- Small, slim and stylish
- High resolution transreflective colour LCD
- Bluetooth® module for remote and hands-free operation
- dPMR® Mode 1/2 digital and Mode 3 trunking with the upgrade licence
- OTAP (Over-the-Air-Programming)* and OAA (Over-the-Air-Alias)
- IP68 waterproof (1 m depth water for 1 hour) and dust-tight
  * Optional software required.

- Motion/Stationary detection, Man Down and Lone Worker functions
- Vibration alert
- Audio equalizer and active noise canceling
- Digital voice recording to a microSD card
- USB port for PC connection
- AquaQuake™ function
- Menu and function item localization
- Internal clock
- Broadcast call
- Ambience listening
- Status call and short data message
- Call back function for Mode 3
- Transparent data
- Remote Kill, Stun and Revive
- Built-in 5-Tone, 2-Tone, CTCSS and DTCS
- DTMF autodial memories and decoder
- MDC 1200 compatible
- BIIS 1200 functions

- Broadcast call
- Ambience listening
- Status call and short data message
- Call back function for Mode 3 trunking
- Remote Kill, Stun and Revive
- 14-pin accessory connector with amplifier output
- Built-in 5-Tone, 2-Tone, CTCSS and DTCS
- BIIS 1200 functions
- Eight DTMF autodial memories
- Inversion voice scrambler for analogue
- Audio compander for analogue

- Broadcast call
- Ambience listening
- Status call and short data message
- Call back function for Mode 3
- Remote Kill, Stun and Revive
- Built-in 5-Tone, 2-Tone, CTCSS and DTCS
- BIIS 1200 functions
- Eight DTMF autodial memories
- Inversion voice scrambler for analogue
- Audio compander for analogue

* Functions are not installed depending on version.

IDAS™ TAKES YOU TO A NEW LEVEL OF “SMART”

- Broadcast call
- Ambience listening
- Status call and short data message
- Call back function for Mode 3
- Remote Kill, Stun and Revive
- Built-in 5-Tone, 2-Tone, CTCSS and DTCS
- BIIS 1200 functions
- Eight DTMF autodial memories
- Inversion voice scrambler for analogue
- Audio compander for analogue

Supplied Accessories
- Battery pack, BP-283
- Belt clip, MB-133

* May differ or not supplied, depending on the transceiver version.
**dPMR™** Mode 1/2 digital and analogue

- Slim, compact and lightweight
- IP67 waterproof and dust-tight
- Motion/stationary detection, Man Down and Lone Worker functions
- Good audio for noisy environments

**IC-F52D** (5 W)
**IC-F62D** (5 W)

**VHF DIGITAL TRANSCEIVER**
**UHF DIGITAL TRANSCEIVER**

*** COMPACT, WATERPROOF DIGITAL BUSINESS RADIO ***

**VHF DIGITAL TRANSCEIVER**
**UHF DIGITAL TRANSCEIVER**

**IC-F1000D** (5 W)
**IC-F2000D** (4 W)

**FEATURES**

- Small, lightweight and feature packed
- dPMR™ Mode 1/2 digital and Mode 3 trunking with the upgrade licence
- IP67/66/55/54 waterproof and dust-tight
- Full dot-matrix LCD, rotary channel and volume knob
- Built-in Bluetooth®, voice recording and active noise cancelling functions
- OTAP (Over-the-Air-Programming)* and OAA (Over-the-Air-Alias) function

* Optional software required.

- Motion/Stationary detection, Man Down and Lone Worker functions
- Vibration alert
- Audio equalizer
- Voice recording and playback (Up to 8 minutes)
- Programmable functions and menu items in a language other than English
- Ambience listening
- Status call and short data message
- Transparent data mode
- Remote Kill, Stun and Revive
- Built-in 5-Tone, 2-Tone, CTCSS and DTCS
- BIIS 1200 PTT ID and emergency call
- DTMF autodial
- Motion/Stationary detection, Man Down and Lone Worker functions
- Vibration alert
- Audio equalizer
- Voice recording and playback (Up to 8 minutes)
- Programmable functions and menu items in a language other than English
- Ambience listening
- Status call and short data message
- Transparent data mode
- Remote Kill, Stun and Revive
- Built-in 5-Tone, 2-Tone, CTCSS and DTCS
- BIIS 1200 PTT ID and emergency call
- DTMF autodial

**Supplied Accessories**

- Battery pack, BP-290
- Belt clip, MBB-3

* May differ or not supplied, depending on the transceiver version.
Intrinsically Safe Radios / Analogue Radios

**Features**

- **dPMR™ Mode 1/2 digital and analogue**
- **Up to 500 channels**
- **Compact and slim body**
- **IP67 waterproof and dust-tight**
- **Easy to hear in noisy environments**
- **16 codes inversion voice scrambler**

**Supplied Accessories**

- Battery pack, BP-277EX
- AC adapter, BC-212EX
- Belt clip, MB-94EX
- Antenna

**Intrinsically Safe Radios**

- **IC-F3202DEX (1 W)**
- **IC-F4202DEX (1 W)**
- **IC-F51ATEX (1 W)**
- **IC-F61ATEX (1 W)**

**ATEX Intrinsically Safe Radios**

- **IC-F1000T/S (5 W)**
- **IC-F2000T/S (4 W)**

**Supplied Accessories**

- Battery pack, BP-279
- Desktop charger, BC-213
- Belt clip, MB-133
- Antenna

DO NOT use the transceiver with any other equipment not specified in the option list (Pages 14–17). Please ask your dealer to ensure the ATEX and IECEx ratings are acceptable for the intended place of use.
### Features

**dPMR™ 446/PMR 446 Transceivers**

- **Licence-free analogue PMR 446**
- **No licence is required to use this radio**
- **Compact and slim body (24.5 mm depth)**
- **IP67 waterproof and dust-tight**
- **8 km* coverage (wide open space)**

*Communication range will vary, depending on terrain and conditions.*

- **Easy to use and easy to hear**
- **16-position rotary channel knob programmable operating channel and group code**
- **Call ring tone function**
- **Answer back call function**
- **PC programmable**
- **Built-in voice scrambler for private conversation**
- **CTCSS and DTCS codes for group call**

### Supplied Accessories

- **Battery pack, BP-279**
- **Desktop charger, BC-213**
- **AC adapter, BC-123SE/SUK**
- **Belt clip, MB-133**

*May differ or not supplied, depending on the transceiver version.*
Digital Mobile Radios

**VHF DIGITAL TRANSCEIVER**  
**IC-F5400DP**  
(25 W, Colour LCD)

**UHF DIGITAL TRANSCEIVER**  
**IC-F5400DP**  
(25 W, Colour LCD)

**SUPERB PERFORMANCE AND A COMPREHENSIVE RANGE OF FEATURES**

- **dPMR™ Mode 1/2 digital and Mode 3 trunking**
- **Large dot-matrix LCD with menu driven interface**
- **IP54 splash resistance and dust-protection** *(Controller only)*
- **Detachable front panel** *(Optional RMK-3 and separation cable required)*
- **D-SUB 25-pin accessory connector and ignition sensing**

**FEATURES**

- High resolution colour LCD (IC-F5400DP/IC-F6400DP only.)
- Bluetooth® module for remote and hands-free operation
- dPMR™ Mode 1/2 digital and Mode 3 trunking with the upgrade licence
- OTAP (Over-the-Air-Programming) and OAA (Over-the-Air-Alias)*
- IP55 jet water resistance and dust-protection
- Optional detached controller, dual head or COMMANDMIC™ configurations (IC-F5400DP/IC-F6400DP only.)

* Optional software required.

**Multiple Controller Configurations***

With a combination with optional separation kits, COMMANDMIC™ and separation cables, three types of controller configurations are available to suit almost any application or installation that may be required.

* Multiple controller configurations are for IC-F5400DP/IC-F6400DP only.

**Supplied Accessories**

- Hand microphone, HM-221
- DC power cable
- Mounting bracket kit
- Microphone hanger

**VHF DIGITAL TRANSCEIVER**  
**IC-F5062D** (25 W)

**UHF DIGITAL TRANSCEIVER**  
**IC-F6062D** (25 W)

**FEATURES**

- **dPMR™ Mode 1/2 digital and Mode 3 trunking**
- **Large dot-matrix LCD with menu driven interface**
- **IP54 splash resistance and dust-protection** *(Controller only)*
- **Detachable front panel** *(Optional RMK-3 and separation cable required)*
- **D-SUB 25-pin accessory connector and ignition sensing**

**Supplied Accessories**

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

**Related Models**

- **IC-F5062D/IC-F5400DP**
- **IC-F6062D/IC-F6400DP**

* Optional software required.
Data Radios

VHF DIGITAL TRANSCEIVER
IC-F5122D (25 W)
UHF DIGITAL TRANSCEIVER
IC-F6122D (25 W)

DIGITAL STANDARD MOBILE RADIO

FEATURES

- dPMR™ Mode 1/2 digital and analogue FMmode operation
- Digital/analogue mixed mode operation
- Front mounted speaker delivers clear and loud audio
- Built-in 5-Tone, 2-Tone, CTCSS and DTCS (Analogue mode)
- External memory channel control with optional ACC cable

- Status call and data call (Short Data Message)
- Transparent data call (Xon/Xoff)
- Remote Kill, Stun and Revive (RX)
- Ambient listening (RX)
- Voting scan
- BIIS PTT ID transmission
- Eight DTMF autodial memories
- Lone Worker function
- Surveillance function

Supplied Accessories

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

VHF MOBILE TRANSCEIVER
IC-F5022
(25 W, 128 Ch with LCD)
UHF MOBILE TRANSCEIVER
IC-F6022
(25 W, 128 Ch with LCD)

HARDWORKING MOBILE RADIOS

FEATURES

- 128 memory channels and 8-character alphanumeric display (IC-F5022/F6022 only)
- 8 memory channels and LED lighting (IC-F5012/F6012 only)
- Front mounted speaker delivers clear and loud audio
- Built-in 5-Tone, 2-Tone, CTCSS and DTCS
- External memory channel control with optional ACC cable
- BIIS PTT ID transmission
- MDC 1200 compatible (Limited functions)

Supplied Accessories

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

VHF MOBILE TRANSCEIVER
IC-F5012
(25 W, 8 Ch without LCD)
UHF MOBILE TRANSCEIVER
IC-F6012
(25 W, 8 Ch without LCD)

Data Radios

VHF DATA TRANSCEIVER
IC-F5122DD
UHF DATA TRANSCEIVER
IC-F6122DD

GENERAL PURPOSE TRANSPARENT DATA MODEM

FEATURES

- 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) supported for Ethernet
- Meets EN 300 113/EN 300 279 standards
- Fast data transfer using 4-level FSK modulation

Supplied Accessories

- DC power cable
- Mounting bracket kit
dPMR™ Digital Repeaters / dPMR™ Mode 3 Controllers

**VHF Repeaters**
- IC-FR5100 (25 W, 100% duty)
- IC-FR5100H (50 W, 100% duty)

**UHF Repeaters**
- IC-FR6100 (25 W, 100% duty)
- IC-FR6100H (50 W, 100% duty)

**VALUE, PERFORMANCE AND FLEXIBILITY**

**FEATURES**
- dPMR™ Mode 2 digital and analogue FM with auto sensing
- dPMR™ Mode 3 repeater for use with IC-FC5000E controller
  Optional UC-FR5000SE required.
- 100% duty cycle operation At 25°C ambient temperature.
- “Two channels in one box” configuration for FR5100/FR6100
  Optional UR-FR5100/UR-FR6100 required.

**Supplied Accessories**
- DC power cable
- Key assign stickers

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**dPMR™ MODE 3 EXTERNAL CONTROLLER**

**IC-FC5000E**

**dPMR™ MODE 3 TRUNKING CONTROLLER**

**FEATURES**
- Spectrum efficient centralized control channel trunking
- Up to 32 channels per site (One control channel, up to 31 traffic channels)
- Up to 32 site multi-site trunking with CS-FC5000SCS system control software
- Up to 256 site multi-region connection

**Supplied Accessories**
- DC power cable

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**dPMR™ MODE 3 SYSTEM MANAGER**

**RS-MGR2**

**ENHANCE SYSTEM MANAGEMENT FOR dPMR™ MODE 3 SYSTEM**

**FEATURES**
- Provides real-time monitoring, system alerts and log search functions for a dPMR™ Mode 3 system
  
  - Real-time monitoring includes repeater view, repeater status, repeater condition, active screen and system connection
  - Registration log, communication log, traffic log and search log can be searched and downloaded with extensive filter settings
  - Repeater site icons laid out on an image file such as a map or network diagram
  - Up to 20 user accounts with three types of access rights and e-mail alert setting

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**VHF Repeaters**

<table>
<thead>
<tr>
<th>Model</th>
<th>Power (W)</th>
<th>Duty Cycle</th>
</tr>
</thead>
<tbody>
<tr>
<td>IC-FR5100</td>
<td>25</td>
<td>100%</td>
</tr>
<tr>
<td>IC-FR5100H</td>
<td>50</td>
<td>100%</td>
</tr>
</tbody>
</table>

**UHF Repeaters**

<table>
<thead>
<tr>
<th>Model</th>
<th>Power (W)</th>
<th>Duty Cycle</th>
</tr>
</thead>
<tbody>
<tr>
<td>IC-FR6100</td>
<td>25</td>
<td>100%</td>
</tr>
<tr>
<td>IC-FR6100H</td>
<td>50</td>
<td>100%</td>
</tr>
</tbody>
</table>
dPMR™ Conventional Mode (Mode 1/ Mode 2)

dPMR radios are designed to coexist with analogue radio systems, and can receive both analogue and digital mode signals on a single channel. In Mode 2 conventional systems, up to 16 repeater sites can be interconnected over an IP network, and you can build low-complexity multi-site systems.

- Flexible migration solution from analogue to digital
- Up to 16 repeater sites • Up to 60000 subscribers
- Web based system administration
- System software updates and configuration online
- Status call • Data call (SDM)
- Transparent data call
- Digital/Analogue dual mode*
- VE-PG3 required to relay analogue voice traffic over the IP network.
- RC-FS10 creates a IP-based virtual radio station on a PC and works as a simple dispatch
- Interconnect with IP phones, analogue radios and IP advanced radio systems with the VE-PG3 RoIP gateway
- Voting scan function allows selection of a repeater from multiple repeater sites, depending on the RSSI level

In a Mode 3 digital trunking system, when a user requests a call through a dedicated control channel, the trunking controller automatically allocates one of the traffic channels and sets up the call. The system can accommodate a large number of users on a limited number of repeater channels with high efficiency. The System Control Software can interconnect multiple trunking controllers over an IP network, so the system can be expanded from a single site system to multiple sites and increased coverage.

- Up to 32 channels per site
- Up to 32 site multi-site trunking with CS-FC5000SCS System Control Software
  * Up to 256 site multi-region connection (8 region × 32 sites for example)
- Channel license system. Four channel activation key is supplied with the IC-FC5000E
  For additional channels/sites, an activation key is required.
- CS-FC5000 web based management software allows to connect multiple clients
- Individual and group calls, including broadcast
- Status call • Short data message
- Call Queuing
- Emergency Call with Pre-emption
Push-to-Talk Communication over a LTE (4G) and 3G Network

The IP501H provides nationwide communication using an already established cellular network* and instantaneous communication with PTT operation. The IP501H does not require its own repeaters or IP network and reduces the cost of building and maintaining a wide area radio network.

* Service availability depends on the country. Please ask your Icom distributor in your country about the planned launch date of the service or other requirements. This product requires the system construction working in collaboration with a mobile network operator.

Telephone Style Conversation

The IP501H provides telephone style conversation with PTT operation, where both parties can talk and receive simultaneously. With built-in echo cancel function, full-duplex communication can be made without an optional headset or earphone-microphone.

Multiple User Communication

As the IP501H uses a LTE (4G) and 3G network, multiple users can initiate calls respectively, without interfering with each other.

Group Call, and Emergency Call

The IP501H supports group call with three or more people. In case of an emergency, you can break into an on-going call to relay an important message.

Interconnect between IDAS™ and IP100H Systems

With a gateway device*, the IP501H system will provide interoperability with IP phones, analogue transceivers, IDAS™ digital transceivers and an IP100H wireless LAN IP Advanced Radio System. In addition, GPS position data can be obtained from the IP501H transceiver. * The gateway device will be available in the future.

FEATURES

- High quality, clear audio
- IP67 waterproof and dust-tight (1m depth water for 30 minutes)
- MIL-STD 810 G rugged construction
- Compact 59 x 95 x 32 mm body and 240 g (approximate) lightweight
- Vibration alert function notifies of incoming calls
- Built-in Bluetooth® and GPS*

* Gateway device required for GPS data (future).

Supplied Accessories

- Battery pack, BP-272
- Belt clip, MB-135
- Antenna
- Hand strap
FULL-DUPEX COMMUNICATION THAT WORKS OVER A WIRELESS IP NETWORK

Features

Wireless Communication System
By deploying access points along the existing IP network, the IP advanced radio system can communicate from anywhere in the facility. The IP100H can access the nearest access point, and can 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-PG3 RoIP gateway, the IP advanced radio system can interconnect with IP phone systems, analogue transceivers and dPMR™ mode 2 digital transceivers.

WIRELESS LAN ACCESS POINT
AP-90M
- IEEE 802.11 a/b/g/n/ac compliant (2.4 GHz and 5 GHz*)
- PoE (Power over Ethernet) capability
- Optional RS-AP3, Access point management software
* Authorized frequency range and channels may differ depending on the country.

REMOTE COMMUNICATOR
IP100FS
- The IP100FS can communicate with IP communication terminals from a PC
- The IP100FS can obtain location information of each IP100H based on using access points, when used with the AP-90M
- Can be installed on a Windows®-based tablet PC as well as laptop PC
- Supplied with USB flash drive for use as a USB hardware key

CONTROLLER
IP1000C
- The IP1000C controls all terminal configurations and voice traffic
- Capable of controlling up to 100 or 20* terminals (including IP100FS)
* Depending on the IP1000C version

IP COMMUNICATION TERMINAL
IP100H
- Licence-free wireless LAN communication terminal using IEEE 802.11 a/b/g/n standards (2.4 GHz and 5 GHz*)
- WPA-PSK or WPA2-PSK encryption
- IPX7 waterproof (1m depth water for 30 minutes)
- MIL-STD 810 G rugged construction
- Compact 58 x 95 x 26.4 mm body and 205 g (approximate) lightweight
- Vibration alert function notices incoming calls
* Authorized frequency range and channels may differ depending on country.

- Text message reception and pre-programmed message transmission
- Status messages
- Emergency call function
- Full dot-matrix display

Supplied Accessories
- Battery pack, BP-271
- Belt clip, MB-127
- Antenna
- Hand strap
FEATURES

- Interconnects between dPMR™ Mode 2, analogue radio and IP Advanced Radio System
- Telephone interconnection with IP phones and PSTN lines
- Cross band, cross category interconnection
- Public address, siren, warning light and external equipment connection
- Optional RC-FS10 software for virtual PC dispatch station

- RoIP and SIP gateway functions
- Direct dialing from radio user* (* Limited to radios with DTMF capability)
- Optional CT-24 digital voice converter converts analogue radio and G.711 μ-law codec to the AMBE+2™ codec for the IDAS radio system
- The virtual serial port function for remote control connected analogue radios or equipment from a PC over an IP network
- IP router function: PPPoE/IPv6 bridge, NAT, dynamic DNS, VPN pass through, IP filter, SNMP and SYSLOG
- USB flash drive connection for firmware updates and data backup
- Site-to-site bridge mode communication over an IP network
- Site-to-multisite bridge mode communication using an IP multicast network
- Mixing audio function for bridge mode operation

FEATURES

- Up to 32 IPsec VPN tunnels with 1000BASE-T gigabit Ethernet
  A broadband IP connection is separately required for an Internet connection.
- 3DES, AES-128, AES-192 or AES-256 encryption
- IPsec wizard provides simple step-by-step instructions
- IPv4 multicast routing for VE-PG3
- Dynamic DNS client function

FEATURES

- PC remote communicator for dPMR™ Mode 2 and analogue radio systems
  VE-PG3 is required for analogue radio systems.
- Up to eight different dPMR Mode 2 and analogue 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-154 or SM-26 microphone can be used with the RC-FS10
  Optional CT-23 PTT microphone adapter is required.
OPTIONS FOR HANDHELD TRANSCEIVERS

**BATTERY PACKS**

<table>
<thead>
<tr>
<th>MODEL NAME</th>
<th>BP-277EX [Li-ion] For intrinsically safe radios T2/VI/1800 mAh (min.) 1900 mAh (typ.)</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td>BP-227AXD [Li-ion] For intrinsically safe radios T2/VI/1800 mAh (min.) 1950 mAh (typ.)</td>
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<td>BP-284 [Li-ion] T2 VI/1910 mAh (min.) 2010 mAh (typ.)</td>
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<td>BP-283 [Li-ion] T2 VI/1910 mAh (min.) 2010 mAh (typ.)</td>
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<td>BP-232WP [Li-ion] T2 VI/2200 mAh (min.) 2350 mAh (typ.)</td>
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<td>BP-294 [Li-ion] T2 VI/3050 mAh (min.) 3150 mAh (typ.)</td>
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<td>BP-290 [Li-ion] T2 VI/1910 mAh (min.) 2010 mAh (typ.)</td>
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<td>BP-280 [Li-ion] T2 VI/2280 mAh (min.) 2400 mAh (typ.)</td>
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<tr>
<td></td>
<td>BP-279 [Li-ion] T2 VI/1485 mAh/24 mAh (typ.)</td>
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</table>

**BATTERY CASES**

<table>
<thead>
<tr>
<th>MODEL NAME</th>
<th>BP-278 [Li-ion] T2 VI/1100 mAh (min.) 1150 mAh (typ.)</th>
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</thead>
<tbody>
<tr>
<td></td>
<td>BP-240 LR03 (AAA) x6 cells</td>
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<tr>
<td></td>
<td>BP-261 LR6 (AA) x6 cells</td>
</tr>
<tr>
<td></td>
<td>BP-291 LR6 (AA) x5 cells</td>
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**DESKTOP CHARGERS**

<table>
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<tr>
<th>MODEL NAME</th>
<th>BC-160 Rapid charger</th>
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<tbody>
<tr>
<td></td>
<td>BC-171 Regular charger</td>
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<tr>
<td></td>
<td>BC-213 Rapid charger</td>
</tr>
<tr>
<td></td>
<td>BC-119N Rapid charger</td>
</tr>
<tr>
<td></td>
<td>BC-214 Rapid multi-charger</td>
</tr>
<tr>
<td></td>
<td>BC-197 Rapid multi-charger</td>
</tr>
<tr>
<td></td>
<td>BC-121N Rapid multi-charger</td>
</tr>
</tbody>
</table>

- *1 The battery charger, BC-212EX must not be used in an explosive atmosphere.*

**MULTI-CHARGERS**

<table>
<thead>
<tr>
<th>MODEL NAME</th>
<th>IC-F310D PT/DPS/DP</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td>IC-F320D PT/DPS/DP</td>
</tr>
</tbody>
</table>

- *2 Either AD-130 or AD-132N is supplied with the BC-214, depending on version.
- *3 AD-122 is supplied with the BC-197, depending on version.

The IC-F320DDEX/F420DDEX and IC-F51/F61 ATEX intrinsically models should only be used with the specified intrinsically safe approved options.
# OPTIONS FOR HANDHELD TRANSCEIVERS

## CHARGER ADAPTERS

<table>
<thead>
<tr>
<th>MODEL NAME</th>
<th>AD-132N&lt;sup&gt;2&lt;/sup&gt;</th>
<th>AD-122&lt;sup&gt;2&lt;/sup&gt;</th>
<th>AD-130&lt;sup&gt;2&lt;/sup&gt;</th>
<th>AD-100</th>
<th>BC-123S&lt;sup&gt;2&lt;/sup&gt;</th>
<th>BC-145S&lt;sup&gt;2,4&lt;/sup&gt;</th>
<th>BC-147S&lt;sup&gt;2&lt;/sup&gt;</th>
<th>BC-157S</th>
<th>BC-228</th>
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</thead>
<tbody>
<tr>
<td></td>
<td>For BP-283, BP-284, BP-294 or BP-295</td>
<td>For BP-232WP</td>
<td>For BP-278, BP-279 or BP-280</td>
<td>For BP-227AXD</td>
<td>12 V/1A</td>
<td>16 V/0.93 A</td>
<td>12 V/0.25 A</td>
<td>12 V/7.5 A</td>
<td>15 V/4.4 A</td>
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## AC ADAPTERS

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<th>BC-123S&lt;sup&gt;2&lt;/sup&gt;</th>
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<th>BC-147S&lt;sup&gt;2&lt;/sup&gt;</th>
<th>BC-157S</th>
<th>BC-228</th>
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## OPTIONS FOR HANDHELD TRANSCEIVERS

### HEADSETS

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<th>HS-97</th>
<th>EH-15B</th>
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<th>SP-28</th>
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<td>Earhook type with waterproof connector</td>
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### EARPHONES

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<th>IC-F4400DPT/DPS/DP</th>
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### PLUG ADAPTER CABLE

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<th>VS-5MC</th>
<th>VS-4MC</th>
<th>VS-4LA</th>
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<th>AD-135</th>
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<tr>
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<td>Manual PTT / VOX operation</td>
<td>Manual PTT operation</td>
<td>Manual PTT operation</td>
<td>Allows you to use 6-pin Hirose plug accessories</td>
<td>Allows you to use 3.5 mm jack earphone adapter</td>
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### PTT SWITCH CABLES

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<tr>
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<th>MB-F94EX</th>
<th>MB-136</th>
<th>MB-96N</th>
<th>MB-96FL</th>
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<td>Behind-the-head type</td>
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### ACC ADAPTERS

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<th>MB-133</th>
<th>MB-98</th>
<th>MB-94/R</th>
<th>MBB-3</th>
<th>AD-184</th>
<th>LC-186</th>
<th>LC-187*</th>
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### BELT CLIPS

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### CARRYING CASES

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<td>Cable type for use with BP-290</td>
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</table>

### NOTES

- Charging is possible while the case is attached.

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

| ✔ | : Applicable | ✔ | : Not applicable |
### OPTIONS FOR HANDHELD TRANSCEIVERS

<table>
<thead>
<tr>
<th>MODEL NAME</th>
<th>CARRYING CASES</th>
<th>ANTENNAS</th>
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<th>HIGH GAIN ANTENNAS</th>
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### STUBBY ANTENNAS

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### SPECIFICATIONS FOR HANDHELD TRANSCEIVERS

| Frequency coverage | IC-F3400DP/DPS/DPE | IC-F3420DT/DS | IC-F52D | IC-F1000D | IC-F2000D/TS | IC-F3200DEX | IC-F510A EXE | IC-F510A EXE | IC-F290R | IC-F295R/2G
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<td>380–470 MHz</td>
<td>446.1–446.2 MHz</td>
<td>446.1–446.2 MHz</td>
</tr>
</tbody>
</table>

#### Number of channels
- **4000/1024 channels**
- **128 zones**
- **512 channels**
- **128 channels**
- **64 channels**
- **16 channels**
- **8 channels**

#### Channel spacing
- **6.25, 12.5 kHz**
- **20, 25 kHz**
- **12.5, 20, 25 kHz**
- **20.5, 25 kHz**
- **20, 25 kHz**
- **5, 10, 20, 25 kHz**
- **20 kHz**
- **20 kHz**
- **20 kHz**
- **20 kHz**

#### Dimensions
- **56 x 95.1 x 29 mm**
- **(with BP-280)**
- **51.2 x 157.5 x 41 mm**
- **(with BP-227WP)**

#### Weight (approx.)
- **155 g**
- **(with BP-283)**
- **350 g**
- **(with BP-283)**
- **380 g**
- **(with BP-283)**
- **310 g**
- **(with BP-283)**
- **290 g**
- **(with BP-283)**

#### RF output power
- **5 W**
- **(VHF/UHF)**
- **5 W**
- **(VHF/UHF)**
- **5 W**
- **(VHF/UHF)**
- **5 W**
- **(VHF/UHF)**
- **1 W**
- **(VHF)**
- **1 W**
- **(VHF)**
- **500 mW ERP**
- **500 mW ERP**

#### Power supply
- **9 VDC**
- **DC 4.8 V**

#### Voice recorder
- **10 hours**
- **400 mW ERP**

#### Encryption
- **MTS (4-key)**
- **DES (64-key)**
- **AES**

#### DTMF autodial
- **Voice mail**

#### DTMF decoder
- **Vibration alert**

#### Voice recorder
- **32-bit**

#### Bluetooth
- **Voice command**

#### GPS receiver
- **Operating temperature**
- **IP rating**

#### MIL-STD requirements
- **MIL-810 G**
- **MIL-810 G**
- **MIL-810 G**
- **MIL-810 G**
- **MIL-810 G**
- **MIL-810 G**
- **MIL-810 G**
- **MIL-810 G**
- **MIL-810 G**

---

*1: Inversion type voice scrambler is not compatible with UT-109R/UT-110R voice scrambler.
*2: Conventional mode: 5.5/90 duty cycle, power save ON. Possible as a kind of 5-Tone format.
### Hand Microphones

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<th>OPC-2078</th>
<th>OPC-2202</th>
<th>OPC-1939</th>
<th>OPC-2078</th>
<th>OPC-2202</th>
<th>OPC-211T</th>
<th>OPC-220</th>
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### Desktop Microphones

<table>
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### External Speakers

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### Separation Kits

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### Commandmic™ Separation Cables

<table>
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</table>

*No digital modulation “IN” using accessory cables.*

Some options may not be available in some countries. Please ask your dealer for details.
### SPECIFICATIONS FOR MOBILE TRANSCEIVERS AND REPEATERS

<table>
<thead>
<tr>
<th>IC-F5400DP/DPS</th>
<th>IC-F6400DP/DPS</th>
<th>IC-F5062D</th>
<th>IC-F6062D</th>
<th>IC-F5122D</th>
<th>IC-F6122D</th>
<th>IC-F5012D</th>
<th>IC-F6012D</th>
<th>IC-FR5100H</th>
<th>IC-FR6100H</th>
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</thead>
<tbody>
<tr>
<td><strong>Number of channels</strong></td>
<td>4010/2048 channels</td>
<td>128 channels</td>
<td>128 channels</td>
<td>128 channels</td>
<td>128 channels</td>
<td>128 channels</td>
<td>128 channels</td>
<td>128 channels</td>
<td>128 channels</td>
</tr>
<tr>
<td><strong>Dimensions (W × H × D; Projections are not included)</strong></td>
<td>174 × 55 × 150 mm</td>
<td>160 × 45 × 150 mm</td>
<td>150 × 40 × 117.5 mm</td>
<td>150 × 40 × 134.7 mm</td>
<td>150 × 40 × 117.5 mm</td>
<td>150 × 40 × 117.5 mm</td>
<td>483 × 88 × 260 mm</td>
<td></td>
<td></td>
</tr>
<tr>
<td><strong>Weight (approx.)</strong></td>
<td>1.5 kg</td>
<td>1.3 kg</td>
<td>800 g</td>
<td>900 g</td>
<td>800 g</td>
<td>800 g</td>
<td>8.1 kg</td>
<td>5.6 kg</td>
<td></td>
</tr>
<tr>
<td><strong>Frequency stability</strong></td>
<td>±1.0 ppm</td>
<td>±1.0 ppm</td>
<td>±1.0 ppm</td>
<td>±2.5 ppm</td>
<td>±2.5 ppm</td>
<td>±2.0 ppm (VHF)</td>
<td>±0.5 ppm (UHF)</td>
<td></td>
<td></td>
</tr>
<tr>
<td><strong>Sensitivity</strong></td>
<td>–4 dBμV typ.</td>
<td>–4 dBμV typ.</td>
<td>–4 dBμV typ.</td>
<td>–4 dBμV typ.</td>
<td>–4 dBμV typ.</td>
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<td>–4 dBμV typ.</td>
<td>–4 dBμV typ.</td>
<td></td>
</tr>
<tr>
<td><strong>Selectivity</strong></td>
<td>75/75/72 dB typ.</td>
<td>65/65/65 dB typ.</td>
<td>65/65/65 dB typ.</td>
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<td>65/65/65 dB typ.</td>
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<tr>
<td><strong>AF output power (Internal SP)</strong></td>
<td>4 W typ.</td>
<td>4 W typ.</td>
<td>4 W typ.</td>
<td>4 W typ.</td>
<td>4 W typ.</td>
<td>4 W typ.</td>
<td>4 W typ.</td>
<td>3.5 W</td>
<td></td>
</tr>
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**dPMR™**

- **Mode 1/ Mode 2**
- **Mode 2 Multi-site**
- **Mode 3 Trunking**
- **AES**

**Encryption**

- **DES (4-key)**
- **AES (4-key)**

**Voice Scrambler (Digital)**

**Voice Scrambler (Analogue)**

**CTCSS/DTCS encoder/decoder**

**2-Tone encoder/decoder**

**5-Tone encoder/decoder**

**DTMF autodial**

**DTMF decoder**

**BIIS 1200**

**MDC 1200**

**Lone Worker function**

**Channel announcement**

**Voice recorder**

**Bluetooth**

**GPS receiver**

**IP rating**

**MIL-STD requirements**

<table>
<thead>
<tr>
<th>IC-F5400DP/DPS</th>
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<td>4 W typ.</td>
<td>4 W typ.</td>
<td>4 W typ.</td>
<td>3.5 W</td>
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**IC-FC5000E**

- **Power supply requirements** 12 V DC
- **Dimensions (W × H × D; Projections are not included)** 483 × 44 × 219 mm
- **Weight (approx.)** 2.25 kg
- **LAN** RJ-45 connector × 4 (100BASE-TX)
- **WAN** RJ-45 connector × 1 (100BASE-TX)
- **LED** Power, Error, Status
- **Conformity standard** ETSI TS 102 658

*1 Upgrade licence (ISL-CHEX) required to enable 4000 channel capacity. IC-F5400DPS/F6400DPS (Segment type display): Channel indication is possible for up to 99 selected channels out of 1024.

*2 Inversion type voice scrambler is not compatible with UT-109R/UT-110R voice scrambler. *3 Depending on version. *4 Possible as a kind of 5-Tone format. *5 PTT ID only. *6 IP dust and water tests were performed on the controller and RMK-3 only. *7 IC-FC5000E external controller required. The IC-FR5100H, FR6100H cannot be used as a base station in dPMR Mode 3.

![Available](image1.png) ![Not available](image2.png)
## OPTIONS FOR IP ADVANCED RADIO SYSTEM, RoIP & VPN ROUTER

### BATTERY PACKS
- **Model Name**: BP-272 (Li-ion)
  - Voltage: 7.4 V
  - Capacity: 2000 mAh (typ.)
- **Model Name**: BP-271 (Li-ion)
  - Voltage: 7.4 V
  - Capacity: 1880 mAh (min.)
- **Model Name**: BP-273 (Li-ion)
  - Voltage: 7.4 V
  - Capacity: 1200 mAh (typ.)
- **Model Name**: BC-202
  - Type: Rapid charger
  - Additional feature: Smart charging function
- **Model Name**: BC-201IP2
  - Type: Rapid charger
  - Additional feature: Smart charging with Bluetooth
- **Model Name**: BC-218
  - Type: Rapid multi-charger
  - Additional feature: Smart charging with Bluetooth

### BATTERY CASES
- **Model Name**: BP-272
- **Model Name**: BP-271
- **Model Name**: BP-273

### DESKTOP CHARGERS
- **Model Name**: BC-207S
  - Voltage: 12 V
  - Current: 3.5 A
  - Additional feature: DC-DC converter
- **Model Name**: CP-22
  - Additional feature: With DC-DC converter
- **Model Name**: HM-183LS
  - Additional feature: Earhook type with boom microphone
- **Model Name**: HM-186LS
  - Additional feature: Behind-the-head type
- **Model Name**: HM-215
  - Additional feature: Throat microphone type
- **Model Name**: OPC-2006LS
  - Additional feature: VOX operation
- **Model Name**: OPC-2328
  - Additional feature: OPC-2359

### MULTI-CHARGER
- **Model Name**: BC-123S
  - Voltage: 12 V/3.5 A
  - Current: 1 A
- **Model Name**: BC-157S
  - Voltage: 12 V/7.5 A

### AC ADAPTERS
- **Model Name**: BC-211
- **Model Name**: BC-218
- **Model Name**: BC-202IP2
  - Additional feature: With smart charging
- **Model Name**: BC-211
  - Additional feature: With smart charging

### CIGARETTE LIGHTER CABLES
- **Model Name**: CP-22
  - Additional feature: With DC-DC converter
- **Model Name**: CP-23L
  - Additional feature: With DC-DC converter

### SPEAKER-MICROPHONES
- **Model Name**: HM-183LS
  - Additional feature: Earhook type with boom microphone
- **Model Name**: HM-186LS
  - Additional feature: Behind-the-head type
- **Model Name**: HM-215
  - Additional feature: Throat microphone type
- **Model Name**: OPC-2006LS
  - Additional feature: VOX operation
- **Model Name**: OPC-2328
  - Additional feature: OPC-2359

### SPEAKER-MICROPHONES
- **Model Name**: OPC-2328
  - Additional feature: OPC-2359

### EARPHONE-MICROPHONES
- **Model Name**: OPC-2328
  - Additional feature: OPC-2359

### HEADSETS
- **Model Name**: HS-94
  - Type: Earhook type with boom microphone
- **Model Name**: HS-95
  - Type: Behind-the-head type
- **Model Name**: HS-97
  - Type: Throat microphone type
- **Model Name**: HS-102
  - Type: Earphone type

### BELT CLIPS
- **Model Name**: MB-127
  - Type: Alligator type
- **Model Name**: MB-135
  - Type: Alligator type

### CARRYING CASES
- **Model Name**: LC-183
  - Additional feature: For use with BP-271

### HEADSETS PLUG ADAPTER CABLE
- **Model Name**: OPC-2006LS
  - Additional feature: For use with OPC-2359

### PTT SWITCH CABLES
- **Model Name**: MB-127
  - Type: Alligator type
- **Model Name**: MB-135
  - Type: Alligator type

### BELT CLIPS
- **Model Name**: LC-183
  - Additional feature: For use with BP-271

### CARRYING CASES
- **Model Name**: LC-185
  - Additional feature: For use with BP-272
- **Model Name**: MBA-7
  - Additional feature: For use with BP-271

### MOUNT BASE
- **Model Name**: MB-127
  - Type: Alligator type
- **Model Name**: MB-135
  - Type: Alligator type

### MOUNT ADAPTOR
- **Model Name**: MBA-7
  - Additional feature: For use with BP-271

---

2. Requires either HM-153LS, HM-166LS or HS-102 with OPC-2359 for full-duplex operation.
3. HS-94, HS-95 and HS-97 headsets are simplex operation only.

---

*IP501H ✔ ✔ ✔ ✔ ✔ ✔
*IP100H ✔ ✔ ✔ ✔ ✔ ✔
*BC-123S for US plug. **SE** for Europe plug. **SV** for Australia plug.
*Requires either HM-153LS, HM-166LS or HS-102 with OPC-2359 for full-duplex operation.
*HS-94, HS-95 and HS-97 headsets are simplex operation only.
### Options for IP Advanced Radio System, RoIP & VPN Router

<table>
<thead>
<tr>
<th>Digital Voice Converter</th>
<th>AC Adapters</th>
<th>Audio Connection Cables</th>
<th>Hand Microphone</th>
<th>Desktop Microphone</th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>Model Name</strong></td>
<td><strong>CT-24</strong></td>
<td><strong>BC-207S</strong> 12 V / 3.5 A</td>
<td><strong>BC-147S</strong> 12 V / 0.35 A</td>
<td><strong>OPC-2273</strong> For VHF marine transceiver 5 m</td>
</tr>
<tr>
<td>VE-PG3</td>
<td>✔</td>
<td>✔</td>
<td>✔</td>
<td>✔ (use with OPC-2276)</td>
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<tr>
<td>SR-VPN1</td>
<td>✔</td>
<td></td>
<td>✔</td>
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<tr>
<td>AP-90M</td>
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<tr>
<td>IP100FS</td>
<td>✔ (use with CT-24)</td>
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<tr>
<td>RC-FS10</td>
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**BC-147SA for US plug. SE for EURO plug. SV for Australia plug.**

### Microphone Adapter, Access Point Manager, Serial Cable

<table>
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<th>Microphone Adapter</th>
<th>Access Point Manager</th>
<th>Serial Cable</th>
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<tbody>
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<td><strong>CT-23</strong></td>
<td>VE-PG3</td>
<td>RS-AP3</td>
<td>OPC-1402A For maintenance use</td>
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<td>SR-VPN1</td>
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</tr>
<tr>
<td>RC-FS10</td>
<td>✔</td>
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</tr>
</tbody>
</table>

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

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### Specifications for IP Advanced Radio System, RoIP & VPN Router

#### VE-PG3

- **Power supply:** 100–240 V AC (with supplied AC adapter)
- **Dimensions:** 232 x 38 x 168 mm
- **Weight (approx.):** 800 g
- **Regulatory compliance:** FCC (Part 15 Class B/Part 68), TIA968-B, ICES-003, ICES-03, CE mark, ETSI ES 203 021 ETSI EN 301 211, 300 277-4 V1.2.1 (2006-07), ITU-T G.711
- **LAN/WAN:** RJ-45 connector x 2 100BASE-TX/10BASE-T (AUTO MDI/MDI-X)
- **TRX 1/2 port:** Analog audio/transmit control 2.54 mm pitch quick connector (4 terminals x3)x2
- **EXT 1/2 port:** General audio/transmit control/Relay circuit 2.54 mm pitch quick connector (4 terminals x3)x2
- **Telephone set port:** RJ-11 connector x1
- **Telephone line port:** RJ-11 connectors x2
- **USB (USB 2.0):** Standard A receptacles x2
- **Internet protocol:** IPv4
- **Supported protocol:** SIP
- **Codec:** G.711 μ-law, AMBE+2 (optional CT-24 required)

#### SR-VPN1

- **Power supply:** 100–240 V AC (with supplied AC adapter)
- **Dimensions:** 232 x 38 x 168 mm
- **Weight (approx.):** 800 g
- **Regulatory compliance:** FCC (Part 15 Subpart B), ICES-003, EN55022, EN55024, EN61000-3-2, EN61000-3-3
- **LAN:** RJ-45 connector x 4 with switching function 1000BASE-T/100BASE-TX/10BASE-T (AUTO MDI/MDI-X)
- **WAN:** RJ-45 connector x 2 1000BASE-T/100BASE-TX/10BASE-T (AUTO MDI/MDI-X)
- **Maintenance console:** RS-232C (RJ-11) connector
- **Internet protocol:** IPv4
- **Dynamic DNS:** Supported
- **IPsec tunnels:** Up to 32
- **Encryption:** 3DES, AES-128, AES-192, AES-256
- **Authentication:** MD5, SHA-1
- **IKE keying method:** Pre-shared key
- **NAT traversal:** Supported
- **Multicast protocol:** VE-PG3 supported
### SPECIFICATIONS FOR IP ADVANCED RADIO SYSTEM, RoIP & VPN ROUTER

<table>
<thead>
<tr>
<th>Network</th>
<th><strong>IP501H</strong></th>
<th><strong>IP100H</strong></th>
</tr>
</thead>
<tbody>
<tr>
<td>4G bands:</td>
<td>LTE 1, 3, 7, 8, 20 (EXP)</td>
<td>Wireless standards: IEEE 802.11 a/b/g/n</td>
</tr>
<tr>
<td>LTE 2, 4, 5, 17 (USA)</td>
<td></td>
<td></td>
</tr>
<tr>
<td>3G bands:</td>
<td>W-CDMA 1, 8 (EXP)</td>
<td>Frequency coverage¹: 2.4–2.4835 GHz, 5.15–5.35, 5.47–5.85 GHz</td>
</tr>
<tr>
<td>W-CDMA 2; 5 (USA)</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Dimensions (W × H × D; projections not included)</td>
<td>59 × 95 × 32 mm (with BP-272)</td>
<td>Dimensions (W × H × D; projections not included)</td>
</tr>
<tr>
<td>Weight (approx.)</td>
<td>240 g (with BP-272 and antenna)</td>
<td>Weight (approx.)</td>
</tr>
<tr>
<td>Voice Codec</td>
<td>G.726 (32 kbps)</td>
<td>Voice Codec</td>
</tr>
<tr>
<td>AF output power</td>
<td>Internal SP: 400 mW (16 Ω at 10% distortion)</td>
<td>AF output power</td>
</tr>
<tr>
<td></td>
<td>External SP: 200 mW (8 Ω at 10% distortion)</td>
<td></td>
</tr>
<tr>
<td>Operating time (5:5:90 duty cycle.)</td>
<td>More than 17 hours (with BP-272)</td>
<td>Operating time (1:1:8 duty cycle.)</td>
</tr>
<tr>
<td>Bluetooth®</td>
<td>Ver 2.1 eDR</td>
<td></td>
</tr>
<tr>
<td>GPS</td>
<td>Built-in</td>
<td></td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>POWER</th>
<th><strong>IP1000C</strong></th>
<th><strong>AP-90M</strong></th>
</tr>
</thead>
<tbody>
<tr>
<td>Power supply</td>
<td>100–240 V AC</td>
<td>Wireless LAN: IEEE 802.11 a/b/g/n/ac</td>
</tr>
<tr>
<td>(with supplied AC adapter)</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Dimensions (W × H × D; projections not included)</td>
<td>232 × 38 × 168 mm</td>
<td>Frequency coverage²: 2.4–2.4835 GHz, 5.15–5.35, 5.47–5.85 GHz</td>
</tr>
<tr>
<td>Weight (approx.)</td>
<td>750 g (Main unit only)</td>
<td>Power supply: 12 V DC or PoE (IEEE802.3af compatible)</td>
</tr>
<tr>
<td>LAN</td>
<td>RJ-45 connector × 4</td>
<td>Dimensions (W × H × D; projections not included)</td>
</tr>
<tr>
<td></td>
<td>100BASE-T/100BASE-TX/10BASE-T (AUTO MDI/MDI-X)</td>
<td>Weight (approx.)</td>
</tr>
<tr>
<td>USB</td>
<td>Standard A receptacles ×2</td>
<td>Wired LAN</td>
</tr>
<tr>
<td>Maintenance console</td>
<td>RS-232C (RJ-11 connector)</td>
<td>1000BASE-T/100BASE-TX/10BASE-T (Auto MDI/MDI-X)</td>
</tr>
</tbody>
</table>

All stated specifications are subject to change without notice or obligation. Read all instructions enclosed with the transceiver carefully and completely before using the transceiver.

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

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**Icom Canada**
Glenwood Centre A150-6165 Highway 17A, Delta, B.C., V4K 5B8, Canada.
Phone: +1 (604) 952-4266 Fax: +1 (604) 952-0090
Email: info@icomcanada.com
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**Icom Brazil**
Rua Iorotí, 444, Prédio Eusébio Bento Horizonte MS.
CEP: 30720-450, Brazil.
Phone: +55 (11) 3982 8847 Fax: +55 (11) 3982 8847
Email: sales@icombrazil.com

**Icom Europe GmbH**
Communication Equipment
Auf der Kneustadt 24
65312 Bad Nauheim, Germany
Phone: +49 (6196) 76685-0
Fax: +49 (6196) 76685-40
Email: info@icom-europe.com
URL: [http://www.icom-europe.com](http://www.icom-europe.com)

**Icom France s.a.s.**
Jac de la Plaine, 1 Rue Brindisi, 92655 Courbevoie Cedex, France
Phone: +33 (1) 61 36 00 33
Fax: +33 (1) 61 36 00 32
Email: icom@icom-france.com
URL: [http://www.icom-france.com](http://www.icom-france.com)

**Icom (Australia) Pty. Ltd.**
Unit 1 / 103 Garden Road, Clayton, VIC 3191 Australia
Phone: +61 (3) 9549 7500 Fax: +61 (3) 9549 7505
Email: sales@icom.net.au
URL: [http://www.icom-net.au](http://www.icom-net.au)

**Icom (UK) Ltd.**
Blackstone House, Altes Park
Horne Bay, Kent, CT4 9GG, UK.
Phone: +44 (0) 1227 741741
Fax: +44 (0) 1227 741742
Email: info@icomuk.co.uk
URL: [http://www.icomuk.co.uk](http://www.icomuk.co.uk)

**Icom (Europe) GmbH**
Communication Equipment
Auf der Kneustadt 24
65312 Bad Nauheim, Germany
Phone: +49 (6196) 76685-0
Fax: +49 (6196) 76685-40
Email: info@icom-europe.com
URL: [http://www.icom-europe.com](http://www.icom-europe.com)

**Icom (UK) Ltd.**
Blackstone House, Altes Park
Horne Bay, Kent, CT4 9GG, UK.
Phone: +44 (0) 1227 741741
Fax: +44 (0) 1227 741742
Email: info@icomuk.co.uk
URL: [http://www.icomuk.co.uk](http://www.icomuk.co.uk)

**Shanghai Icom Ltd.**
No.103, Building A, Caulanqian Park, No.188 Maling Road, Chechun Town, Songjiang County, Shanghai 201611, China
Phone: +86 (21) 6513 2788
Fax: +86 (21) 5785 9997
Email: bjicom@bjicom.com
URL: [http://www.bjicom.com](http://www.bjicom.com)

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