Company Profile

ICOM, THE WIRELESS COMMUNICATIONS EXPERTS

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

QUALITY & RELIABILITY

ICOM QUALITY AND ICOM RELIABILITY

Over 50 years of engineering and production excellence is a part of every Icom's product. Using the latest equipment, Icom radios are tested to pass rigorous in-house tests as well as environmental tests to the US Military standard 810 specifications. Icom's products are also compliant with the European RoHS directive.

ICOM BRAND

ICOM, WORLD BRAND NAME

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

PRODUCTION

MADE IN JAPAN QUALITY

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

NETWORK

ICOM’S WORLDWIDE NETWORK

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

**VHF MOBILE TRANSCEIVER**

**IC-F5062D (25W)**

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

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

**Supplied Accessories** (May differ according to version)

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

---

**UHF MOBILE TRANSCEIVER**

**IC-F6062D (25W)**

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

**Supplied Accessories** (May differ according to version)

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

---

**VHF HANDHELD TRANSCEIVERS**

**IC-F3262DT (5W)**

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

- **General and analogue Features**
  - 136–174MHz, 5W • 400–470MHz, 5W
  - 512 memory channels with 128 zones
  - Dot-matrix, multi-function display
  - IP67 dust-tight and waterproof
  - MIL-STD rugged construction
  - Large capacity Lithium-Ion battery pack
  - 800mW loud audio with BTL amplifier
  - 14-pin accessory connector with BTL amplifier output
  - Mode dependent scan • Priority scan
  - 8 DTMF autodial memories
  - Lone worker function • Power on password
  - Integrated GPS receiver and man down function* (* Depending on version)
  - Busy channel lockout, repeater lockout and time-out-timer
  - Surveillance function • Escalating alarm
  - Built-in 5-Tone, 2-Tone, CTCSS and DTCS capability
  - Built-in audio compander • Wide/middle/narrow channel spacing

**Supplied Accessories** (May differ according to version)

- Battery pack, BP-232WP
- Antenna
- Antenna

---

**UHF HANDHELD TRANSCEIVERS**

**IC-F4262DT (5W)**

**IC-F3262DS (5W)**

**IC-F4262DS (6W)**

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

**Supplied Accessories** (May differ according to version)

- Battery pack, BP-232WP
- Antenna
**SIMPLE, AFFORDABLE DIGITAL RADIO**

**VHF MOBILE TRANSCEIVER**

**IC-F3102D (5W)**

**UHF MOBILE TRANSCEIVER**

**IC-F4102D (4W)**

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

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

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

**DIGITAL STANDARD MOBILE RADIO**

**VHF MOBILE TRANSCEIVER**

**IC-F5122D (25W)**

**UHF MOBILE TRANSCEIVER**

**IC-F6122D (25W)**

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

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

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

**IECEx/ATEX INTRINSICALLY SAFE RADIO**

**VHF HANDHELD TRANSCEIVER**

**IC-F3202DEX (1W)**

**UHF HANDHELD TRANSCEIVER**

**IC-F4202DEX (1W)**

**IEC Certifications**
- Mining : Ex ib I Mb
- Gas : Ex ib IIC T4 Gb
- Dust : Ex ib IIC IP6x T110°C Db

**ATEX Certifications**
- Mining : I M2 Ex ib I Mb
- Gas : II 2G Ex ib IIC T4 Gb
- Dust : II 2D Ex ib IIC IP6x T110°C Db

**Features**
- 136–174MHz, 1W • 400–470 MHz, 1W
- dPMR Mode 1 and 2 compatible • 16 memory channels
- Lone worker and man down functions
- Low electrical resistivity body; Carrying case is not required
- IP67 dust-tight and waterproof
- Operating time: 21.5/19 hours* (VHF/UHF, approx. with BP-277EX battery pack) • Tx: Rx: Standby=5:5:90.
- Power save on.
- 2-Tone, 5-Tone, CTCSS and DTCS capability
- BIIS 1200 PTT ID transmission
- Option speaker-microphone • Channel announcement function

**Supplied Accessories (May differ according to version)**
- Battery pack, BP-277EX
- Antenna
- Belt clip, MB-94EX
- Battery charger, BC-212EX • AC adapter, BC-123S

* Approval pending

DO NOT use the transceiver with any other equipment not specified in the option list (Pages 10–12).
VALUE, PERFORMANCE AND FLEXIBILITY

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

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

Supplied Accessories (May differ according to version)
• DC power cable
• Key assign stickers

VHF REPEATERS
• No other Fylde components required to make a system*
• Each 1u/44mm height chassis supports 4 channels
• Up to 32 channels per site • Up to 1000 sites networks across multiple regions
• Network supports over 1 million subscriber terminals
• SIP digital telephone interconnect as well as 2 wire POTS

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

★ Mode 2 Conventional Repeater mode (Optional UC-FR5000 #12 required)
Up to 16 repeater sites can be connected over an IP network.
*Note: Private IP Network or VPN Tunnels through the Internet with Static endpoints.

Mode 3 Digital Trunking Mode
(Example of sites with three repeaters controlled by two MultiLingo cards)

FYLDE MICRO
Multi-Lingo can be used to build systems ranging in size from 2 channels on a single site, to national systems of over 1000 sites. Each Multi-Lingo tray supports 4 channels of dPMR or 4 channels of MPT1327. Trays can provide a mix of protocols up to 32 channels per site.

★ No other Fylde components required to make a system*
★ Each 1u/44mm height chassis supports 4 channels
★ Up to 32 channels per site • Up to 1000 sites networks across multiple regions
★ Network supports over 1 million subscriber terminals
★ SIP digital telephone interconnect as well as 2 wire POTS

★ Native IP connectivity • Cross protocol calling – dPMR Mode3/ MPT 1327
★ SYSCON-Suite for network administration/troubleshooting done via web session

★ For larger networks over 5 sites it is recommended to use a separate (RCS) Regional Control Server. The separate RCS further optimises IP radio networks traffic by arbitrating subscriber registration data.
ATEX INTRINSICALLY SAFE RADIO

VHF HANDHELD TRANSCEIVER
IC–F51ATEX (1W)

UHF HANDHELD TRANSCEIVER
IC–F61ATEX (1W)

- **ATEX Certifications**
  - Gas: II2G Ex ib IIA T3 Gb
  - Dust: II2D Ex tb IIIC T160°C Db IP67 (Tamb=–20°C to +55°C)

- **Features**
  - 136–174MHz, 5W • 400–470MHz, 4W
  - 128 memory channels with 8 zones
  - IP67 dust-tight and waterproof
  - Lone worker function
  - 2-Tone, 5-Tone, CTCSS, DTCS and BIIS 1200 capability
  - 8 DTMF autodial memories
  - Operating time: 16.5 hours* (approx. with BP-227AXD battery pack)
  - Tx: Rx: standby=5:5:90. Power save on.

- **Supplied Accessories (May differ according to version)**
  - Battery pack, BP-227AXD • Antenna • Belt clip, MB-98

DO NOT use the transceiver with any other equipment not specified in the option list (Pages 10-12).

---

RADIO & PAGER, ALL-IN-ONE

VHF HANDHELD TRANSCEIVER
IC–F51V (5W)

UHF HANDHELD TRANSCEIVER
IC–F61V (4W)

- **Features**
  - 136–174MHz, 5W • 400–470MHz, 4W
  - Vibration alert function* (* Depending on version)
  - 8 minutes’ recording function* (* Depending on version)
  - 700mW (typ.) loud audio output with internal speaker
  - Lone worker function
  - 128 memory channels with 8 zones
  - IP67, dust-tight and waterproof protection
  - MIL-STD rugged construction
  - 56(W)×97(H)×35.2(D) mm compact body
  - Built-in 5-Tone, 2-Tone, CTCSS, DTCS and BIIS 1200 capability
  - MDC 1200 compatible (Limited functions)
  - Wide/middle/narrow channel spacing
  - Built-in inversion voice scrambler
  - Operating time: 9–10 hours* (approx. with BP-274 battery pack)
  - Tx: Rx: standby=5:5:90. Power save on.
  - Mode dependent scan
  - 8 DTMF autodial memories
  - Nuisance delete function
  - Audio compander

- **Supplied Accessories (May differ according to version)**
  - Battery pack, BP-274 • Antenna • Belt clip, MB-98

---

SIMPLE, HIGH PERFORMANCE RADIO

VHF HANDHELD TRANSCEIVER
IC–F3002 (5W)

UHF HANDHELD TRANSCEIVER
IC–F4002 (4W)

- **Features**
  - 136–174MHz, 5W • 400–470MHz, 4W
  - 16 memory channels • 3-colour LED
  - Simple operation for instant communication
  - Operating time: 20 hours* (approx. with BP-265 battery pack)
  - Tx: Rx: standby=5:5:90. Power save on.
  - Built-in 5-Tone, 2-Tone, CTCSS and DTCS capability
  - BIIS 1200 PTT ID transmission
  - MDC 1200 PTT ID and emergency
  - Wide/middle/narrow channel spacing
  - 800mW (typ.) loud speaker audio
  - IP54, dust-protection and water resistance
  - MIL-STD rugged construction
  - 58(W)×111(H)×35.5(D) mm compact body
  - Internal VOX capability for hands-free operation
  - DTMF autodial memories
  - Lone worker function
  - Surveillance function
  - Low battery alert
  - Supplied accessories differ according to version.

- **Supplied Accessories**
  - Battery pack, BP-274 • Antenna • Belt clip, MB-98

DO NOT use the transceiver with any other equipment not specified in the option list (Pages 10-12).
**SUPERIOR WATERPROOF PROTECTION**

**VHF HANDHELD TRANSCEIVERS**

**IC-F3032T/S** (5W)

**IC-F4032T/S** (4W)

**Features**

- 136–174MHz, 5W
- 128 memory channels with 8 zones
- 8 character alphanumeric display
- IP67, dust-tight and waterproof protection
- Operating time: 17.5 hours* (approx. with BP-232WP battery pack)
- Built-in 5-Tone, 2-Tone, CTCSS and DTCS capability
- BIIS 1200 PTT ID transmission
- MDC 1200 compatible (Limited functions)
- MIL-STD rugged construction
- 53(W)×120(H)×37(D) mm compact body
- Small and lightweight body (310g)
- Wide/middle/narrow channel spacing
- Lone worker function
- Mode dependent scan

- Nuisance delete function
- Surveillance function
- 8 DTMF autodial memories
- Optional voice scrambler, UT-109R/UT-110R
- Optional man down unit, UT-124R

**Supplied Accessories** (May differ according to version)

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

**PROFESSIONAL DIGITAL LICENCE FREE RADIO**

**DIGITAL PMR 446 TRANSCEIVER**

**IC-F4029SDR** (500mW)

**Features**

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

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

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

**Supplied Accessories** (May differ according to version)

- Battery pack, BP-232H
- Belt clip, MB-94
- Battery charger, BC-160
- AC adapter, BC-123S

**PROFESSIONAL LICENCE FREE RADIO**

**PMR 446 TRANSCEIVER**

**IC-F27SR** (500mW)

**Features**

- Analogue PMR 446 (8ch)
- No licence* is required to use the radio
- Just three main controls for simple operation
- MIL-STD rugged construction
- 800mW outstanding audio quality
- Operating time: 35.5 hours* (approx. with BP-265 battery pack)
- Built-in CTCSS/DTCS
- 500mW output power (ERP)

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

- Power save function
- Low battery alert
- Monitor function
- 58(W)×186(H)×36.5(D) mm compact body (with BP-265)
- 285g lightweight body (with BP-265)
- 500mW output power (ERP)

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

Supplied accessories differ according to version.
HARDWORKING MOBILE RADIO

VHF MOBILE TRANSCEIVER  
IC-F5022 (25W)  
UHF MOBILE TRANSCEIVER  
IC-F6022 (25W)

Features
- 136–174MHz, 25W • 400–470MHz, 25W
- 128 memory channels with 8 zones
- 8-character alphanumeric display
- Built-in 5-Tone, 2-Tone, CTCSS and DTCS capability
- BIIS PTT ID transmission
- MDC 1200 compatible (Limited functions)
- Wide/middle/narrow channel spacing
- 8 DTMF autodial memories
- External memory channel control with optional ACC cable

TOUGH LITTLE WORKER

VHF MOBILE TRANSCEIVER  
IC-F5012 (25W)  
UHF MOBILE TRANSCEIVER  
IC-F6012 (25W)

Features
- 136–174MHz, 25W • 400–470MHz, 25W
- 8 memory channels
- 4 programmable buttons and LED lighting
- Built-in 5-Tone, 2-Tone, CTCSS and DTCS capability
- BIIS PTT ID transmission
- MDC 1200 compatible (Limited functions)
- Wide/middle/narrow channel spacing
- External memory channel control with optional ACC cable
- DTMF autodial memories

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

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

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

The IC-FR5100/H series can be used as an analogue mode repeater. Please see Page 4 for analogue function details.
**VERSATILE RADIO OVER IP GATEWAY**

**VE-PG3**

**Converter mode**
- Interconnects analogue radio to IP phone/analogue phone system
- RoIP and SIP gateway functions
- Telephone interconnection with IP phone and PSTN lines
- Direct dialing from radio user is possible*
  (* Limited to radios with DTMF capability)

**Bridge mode**
- Interconnects between analogue radio sites over the IP network
- Site-to-multisite radio communication
- Mixing audio function

**Common features**
- Cross band, cross category connection
- IP advanced system and analogue radio system cross band connection
- Option RC-FS10 software for virtual PC dispatch station
- Public address system, siren, warning light and external equipment can be connected to the VE-PG3
- The virtual serial port function for remote control connected radios or equipment from a PC over the IP network

**Features**
- Up to 32 IPsec VPN tunnels (3DES, AES-128, AES-192 or AES-256)
- IPsec wizard focuses on the basic setting items for a VPN connection, and provides simple step-by-step instructions
- IPv4 multicast routing for VE-PG3
- High-speed 1000BASE-T gigabit Ethernet connection
- 4 gigabit LAN ports with switch function
- Dual WAN ports (main/sub) for automatic failover
- USB flash drive connection for firmware updates and data backup

**Supplied Accessories**
- AC adapter, BC-207S
- Ferrite core
- Quick connectors (Spare)
- Virtual serial port software CD

---

**SIMPLE VPN ROUTER FOR RADIO OVER IP**

**SR-VPN1**

**Features**
- 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

**Supplied Accessories**
- AC adapter, BC-207S

---

* A xDSL or FTTH modem is separately required for Internet connection.
License-free wireless LAN transceiver using IEEE 802.11 (a/b/g/n) standards
- Off-the-shelf wireless LAN access point can be used in the communication system and can communicate at the same time
- Users can roam among deployed access points
- Dispersed sites can be connected over an IP network (VPN)
- Up to 100 users can be loaded on a system and all users can communicate at the same time
- WPA-PSK or WPA2-PSK encryption protects your conversation security
- The IP100FS remote communicator shows user position information based on access point information
- Individual, Group conference call, All call, Area call, Priority call
- Full-duplex communication: Talk and receive simultaneously like a phone call (Optional headset required for IP100H)
- Mixing function: Receives multiple users voice with mixed audio
- Press to talk operation like a conventional transceiver
- Unique Area call function can call any user who is accessing the specified access point
- Remote stun, kill, revive and monitor function (Transmit from IP100FS only)
- Status call and short data message with vibration alert
- Auto provisioning function helps easy transceiver configuration
- IP Phone and analogue transceiver interconnection with VE-PG3
- IPX7 waterproof construction (IP100H only)
## OPTIONS FOR HANDHELD TRANSCEIVERS

### Desktop Chargers

<table>
<thead>
<tr>
<th>Model Name</th>
<th>Battery Packs</th>
<th>Battery Cases</th>
</tr>
</thead>
<tbody>
<tr>
<td>BC-190</td>
<td>Rapid charger</td>
<td></td>
</tr>
<tr>
<td>BC-191 (For BP-264)</td>
<td>Rapid charger</td>
<td></td>
</tr>
<tr>
<td>BC-192 (For BP-264)</td>
<td>Rapid charger</td>
<td></td>
</tr>
<tr>
<td>BC-193 (For BP-260)</td>
<td>Rapid charger</td>
<td></td>
</tr>
<tr>
<td>BC-202</td>
<td>Rapid multi-charger</td>
<td></td>
</tr>
<tr>
<td>BC-121N</td>
<td>Rapid multi-charger</td>
<td></td>
</tr>
<tr>
<td>BC-197 &quot;*&quot;</td>
<td>Rapid multi-charger</td>
<td></td>
</tr>
<tr>
<td>BC-211</td>
<td>Rapid multi-charger</td>
<td></td>
</tr>
</tbody>
</table>

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

The IC-F3202DEX/F4202DEX and IC-F51/F61 ATEX intrinsically models should only be used with the specified intrinsically safe approved options.

### BATTERY PACKS

<table>
<thead>
<tr>
<th>Model Name</th>
<th>Battery Type</th>
<th>Voltage</th>
<th>Capacity (mAh)</th>
</tr>
</thead>
<tbody>
<tr>
<td>BP-227AXD</td>
<td>Li-Ion</td>
<td>7.4V/1800mAh (min.) 1950mAh (typ.)</td>
<td></td>
</tr>
<tr>
<td>BP-277EX</td>
<td>Li-Ion</td>
<td>7.4V/1800mAh (min.) 1950mAh (typ.)</td>
<td></td>
</tr>
<tr>
<td>BP-232H</td>
<td>Li-Ion</td>
<td>7.4V/2250mAh (min.) 2300mAh (typ.)</td>
<td></td>
</tr>
<tr>
<td>BP-232WM</td>
<td>Li-Ion</td>
<td>7.4V/2250mAh (min.) 2300mAh (typ.)</td>
<td></td>
</tr>
<tr>
<td>BP-230N</td>
<td>Li-Ion</td>
<td>7.4V/1400mAh</td>
<td></td>
</tr>
<tr>
<td>BP-264</td>
<td>Ni-MH</td>
<td>7.2V/1400mAh</td>
<td></td>
</tr>
<tr>
<td>BP-265</td>
<td>Li-Ion</td>
<td>7.4V/1900mAh (min.) 2000mAh (typ.)</td>
<td></td>
</tr>
<tr>
<td>BP-267</td>
<td>Li-Ion</td>
<td>7.4V/1800mAh (min.) 1900mAh (typ.)</td>
<td></td>
</tr>
<tr>
<td>BP-274</td>
<td>Li-Ion</td>
<td>7.4V/1800mAh (min.) 1900mAh (typ.)</td>
<td></td>
</tr>
<tr>
<td>BP-226</td>
<td>LR6 (AA)</td>
<td>×5 cells</td>
<td></td>
</tr>
</tbody>
</table>

### BATTERY CASES

<table>
<thead>
<tr>
<th>Model Name</th>
<th>Battery Type</th>
<th>Capacity (mAh)</th>
</tr>
</thead>
<tbody>
<tr>
<td>BP-240</td>
<td>LR03 (AAA)</td>
<td>×6 cells</td>
</tr>
<tr>
<td>BP-261</td>
<td>LR6 (AA)</td>
<td>×6 cells</td>
</tr>
<tr>
<td>BP-263</td>
<td>LR6 (AA)</td>
<td>×3 cells</td>
</tr>
<tr>
<td>BP-273</td>
<td>LR6 (AA)</td>
<td>×3 cells</td>
</tr>
<tr>
<td>BC-212EX</td>
<td>Rapid charger</td>
<td></td>
</tr>
<tr>
<td>BC-119N</td>
<td>Rapid charger</td>
<td></td>
</tr>
<tr>
<td>BC-152N</td>
<td>Regular charger</td>
<td></td>
</tr>
<tr>
<td>BC-160</td>
<td>Rapid charger</td>
<td></td>
</tr>
<tr>
<td>BC-171</td>
<td>Regular charger</td>
<td></td>
</tr>
</tbody>
</table>

### OPTIONS FOR HANDHELD TRANSCEIVERS

- **BC-190**: Rapid charger
- **BC-191**: Rapid charger (For BP-264)
- **BC-192**: Rapid charger (For BP-264)
- **BC-193**: Rapid charger (For BP-260)
- **BC-202**: Rapid multi-charger
- **BC-121N**: Rapid multi-charger
- **BC-197**: Rapid multi-charger
- **BC-211**: Rapid multi-charger

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

The IC-F3202DEX/F4202DEX and IC-F51/F61 ATEX intrinsically models should only be used with the specified intrinsically safe approved options.
### OPTIONS FOR HANDHELD TRANSCEIVERS

<table>
<thead>
<tr>
<th>MODEL NAME</th>
<th>OPTIONS FOR HANDHELD TRANSCEIVERS</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td>SPEAKER-MICROPHONES</td>
</tr>
<tr>
<td></td>
<td></td>
</tr>
</tbody>
</table>

#### SPEAKER-MICROPHONES

<table>
<thead>
<tr>
<th>MODEL NAME</th>
<th>SPEAKER-MICROPHONES</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td></td>
</tr>
</tbody>
</table>

#### EARPHONE-MICROPHONES

<table>
<thead>
<tr>
<th>MODEL NAME</th>
<th>EARPHONE-MICROPHONES</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td></td>
</tr>
</tbody>
</table>

#### HEADSETS

<table>
<thead>
<tr>
<th>MODEL NAME</th>
<th>HEADSETS</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td></td>
</tr>
</tbody>
</table>

---

**BC-123S/BC-145S/BC-147SA for 120V AC. SE for 230V AC. SV for 240V AC. BC-206SE for 230V AC.**
### OPTIONS FOR HANDHELD TRANSCEIVERS

<table>
<thead>
<tr>
<th>MODEL NAME</th>
<th>EARPHONES</th>
<th>EARPHONE ADAPTER</th>
<th>ACC ADAPTER</th>
<th>PLUG ADAPTER CABLES</th>
<th>PTT SWITCH CABLES</th>
</tr>
</thead>
<tbody>
<tr>
<td>SP-13</td>
<td>SP-27</td>
<td>AD-52</td>
<td>AD-118</td>
<td>OPC-2004</td>
<td>OPC-3232</td>
</tr>
</tbody>
</table>

#### VOX/PPT CASE
- VS-11/SC
  - MB-94EX
  - MB-84
  - MB-93

#### BELT CLIPS
- MB-94/94R
- MB-92
- MB-124
- MB-127

#### LEATHER BELT HANGERS
- MB-96N
- MB-96F
- MB-96FL

#### CHARGER BRACKET
- MB-130
- CP-23L

#### CIGARETTE LIGHTER CABLE
- MB-86

#### DC POWER CABLES
- OPC-656
- OPC-515L

#### ANTENNAS
- FA-SC25V 136-174MHz
- FA-SC35V 150-190MHz
- FA-SC25U 400-470MHz
- FA-SC57U 430-470MHz

#### CUT ANTENNAS
- FA-SC244 136-174MHz
- FA-SC245 150-190MHz
- FA-SC250 400-470MHz

#### HIGH GAIN ANTENNAS
- FA-SCG1GC 450-520MHz
- FA-SCG1UC 450-520MHz

#### STUBBY ANTENNAS
- FA-SCG1EC 450-520MHz

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

**IC-F3262DT/DS, IC-F4262DT/DS**

|                | IC-F3262DT/DS | IC-F3262DT/DS | IC-F3162DT/DS | IC-F4162DT/DS | IC-F4102D | IC-F4102D | IC-F4202D | IC-F51 ATEX | IC-F61 ATEX | IC-F61 V | IC-F61 V | IC-F4022T/S | IC-F3022T/S | IC-F4032T/S | IC-F3032T/S | IC-F4002 | IC-F4029SDR | IC-F275R |
|----------------|---------------|---------------|---------------|---------------|------------|------------|------------|------------|------------|------------|------------|------------|------------|------------|------------|------------|----------|------------|--------|
| **Number of channels** | 512 channels | 512 channels | 512 channels | 512 channels | 512 channels | 12 channels | 16 channels | 12 channels | 16 channels | 12 channels | 16 channels | 12 channels | 16 channels | 12 channels | 16 channels | 16 channels | 16 channels |
| **Dimensions** (W×H×D; belt clip & ant.) | 53.5×142.7×39.5mm | 512×124.7×39.5mm | 512×124.7×39.5mm | 512×124.7×39.5mm | 512×124.7×39.5mm | 61.5×180.7×36.5mm | 61.5×180.7×36.5mm | 61.5×180.7×36.5mm | 61.5×180.7×36.5mm | 61.5×180.7×36.5mm | 61.5×180.7×36.5mm | 61.5×180.7×36.5mm | 61.5×180.7×36.5mm | 61.5×180.7×36.5mm | 61.5×180.7×36.5mm | 61.5×180.7×36.5mm | 61.5×180.7×36.5mm |
| **Weight (W×H×D)** | 340g | 340g | 340g | 340g | 340g | 270g | 270g | 270g | 270g | 270g | 270g | 270g | 270g | 270g | 270g | 270g | 250g |
| **Spurious response rejection** | 75/75/65dB typ.) | 75/75/65dB typ.) | 75/75/65dB typ.) | 75/75/65dB typ.) | 75/75/65dB typ.) | 75/75/65dB typ.) | 75/75/65dB typ.) | 75/75/65dB typ.) | 75/75/65dB typ.) | 75/75/65dB typ.) | 75/75/65dB typ.) | 75/75/65dB typ.) | 75/75/65dB typ.) | 75/75/65dB typ.) | 75/75/65dB typ.) | 75/75/65dB typ.) | 75/75/65dB typ.) |
| **Monitor output** | – | – | – | – | – | – | – | – | – | – | – | – | – | – | – | – | – |
| **Voice Scrambler** | – | – | – | – | – | – | – | – | – | – | – | – | – | – | – | – | – |
| **Vibration alert** | – | – | – | – | – | – | – | – | – | – | – | – | – | – | – | – | – |
| **Intrinsically safe** | – | – | – | – | – | – | – | – | – | – | – | – | – | – | – | – | – |
| **Operating time** | 12/10.5 hours | 12/10.5 hours | 12/10.5 hours | 12/10.5 hours | 12/10.5 hours | 17.5 hours | 17.5 hours | 17.5 hours | 17.5 hours | 17.5 hours | 17.5 hours | 17.5 hours | 17.5 hours | 17.5 hours | 17.5 hours | 17.5 hours | 17.5 hours |
| **Audio decoder** | ✔ | ✔ | ✔ | ✔ | ✔ | ✔ | ✔ | ✔ | ✔ | ✔ | ✔ | ✔ | ✔ | ✔ | ✔ | ✔ | ✔ |
| **Audio encoder** | ✔ | ✔ | ✔ | ✔ | ✔ | ✔ | ✔ | ✔ | ✔ | ✔ | ✔ | ✔ | ✔ | ✔ | ✔ | ✔ | ✔ |
| **Voice Recorder** | ✔ | ✔ | ✔ | ✔ | ✔ | ✔ | ✔ | ✔ | ✔ | ✔ | ✔ | ✔ | ✔ | ✔ | ✔ | ✔ | ✔ |
| **GPS receiver** | ✔ | ✔ | ✔ | ✔ | ✔ | ✔ | ✔ | ✔ | ✔ | ✔ | ✔ | ✔ | ✔ | ✔ | ✔ | ✔ | ✔ |

* As of October 2013, some countries have yet to allocate the 446.1–446.2MHz digital PMR 446 frequency range. We suggest you confirm the allocation status in your country before you use.

---

**IC-F3262D/DS**

The IC-F3262D/DS is compatible with the UT-109/UT-110 voice scrambler. Depending on version, PTT ID only. PTT ID and Emergency call only.

**IC-F4262D/DS**

Depending on version, the IC-F4262D/DS supports Digital or Analogue Voice Scrambling.
Some options may not be available in some countries. Please ask your dealer for details.
SPECIFICATIONS AND OPTIONS FOR RoIP AND VPN ROUTER

<table>
<thead>
<tr>
<th>MODEL NAME</th>
<th>AC ADAPTER</th>
<th>AUDIO CONNECTION CABLES</th>
<th>SERIAL CABLE</th>
<th>REMOTE COMMUNICATOR</th>
</tr>
</thead>
<tbody>
<tr>
<td>BC-2075</td>
<td>12V/3.5A</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>OPEC-2273</td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>OPEC-2274</td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>OPEC-2275</td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>OPEC-2276</td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>OPEC-1402A</td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>RC-F510</td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

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

**Power supply**

- 100–240V AC
- 12V DC ±10% (with supplied AC adapter)

**Dimensions**

- (WxHxD;projections not included)

- Weight (approx.)

- Regulatory compliance

**LAN/WAN**

- RJ-45 connector × 2
- 100BASE-TX/10BASE-T (AUTO MDI/MDI-X)

**TX/RX 1/2 port**

- Analog audio/transmit control 2.54mm (0.1 in) pitch quick connector (4 terminals) × 2

**EXT 1/2 port**

- General audio/transmit control/Relay circuit 2.54mm pitch quick connector (4 terminals) × 2

**Telephone set port**

- RJ-11 connector × 1

**Telephone line port**

- RJ-11 connectors × 2

**USB**

- Standard A receptacles × 2

**Network protocol**

- IPv4

**Codec**

- G.711 μ-law, AMBE+2 (Optional CT-24 required)

**Security**

- WEP(64/128-bit), WPA-PSK(TKIP/AES), WPA2-PSK(TKIP/AES)

**AF output power**

- 400mW (typ., 16Ω at 10% distortion)
- 200mW (typ., 8Ω at 10% distortion)

**Maintenance console**

- RS-232C (RJ-11) connector
- IPsec tunnels: Up to 32
- IKE keying method: Pre-shared key
- NAT traversal: Supported

**Multicast protocol**

- VE-PG3 and VE-PG2 supported

---

**SPECIFICATIONS FOR IP ADVANCED RADIO SYSTEM**

- Frequency coverage:

  - 2412–2472MHz, 13 channels
  - 5180–5700MHz, 19 channels

- Wireless standards:

  - IEEE 802.11 a/b/g/n

- Dimensions:

  - (WxHxD;projections are not included) 232×38×168mm

- Weight (approx.)

- RF output power

- Less than 10mW/MHz

- Voice Codec

- G.711 μ-law

- Security

  - WEP/64/128-bit, WPA-PSK (TKIP/AES), WPA2-PSK (TKIP/AES)

- Operating time

  - More than 20 hours (with BP-271)

---

Icom, Icom Inc. and the Icom logo are registered trademarks of Icom Incorporated (Japan) in the United States, the United Kingdom, Germany, France, Spain, Russia, Japan and/or other countries. IDAS and IDAS logo are trademarks of Icom Incorporated. IPMPR and the IPMPR logo are trademarks of the IPMPR-MOU Association. Windows is either registered trademark or trademark of Microsoft Corporation in the United States and/or other countries. All other trademarks are the properties of their respective holders.

Icom Inc.

1-32, Kami-minami, Hirano-ku, Osaka 547-0003, Japan

Tel: +81 (06) 6793 5302
Fax: +81 (06) 6793 0013

URL: http://www.icom.co.jp/world

---

Your local distributor/dealer:

---

Icom America Inc.

3342 Willow Road
Kirksville, WA 63501, U.S.A.

Phone: +1 (636) 565-4100
Fax: +1 (636) 565-4105
Email: sales@icomamerica.com
URL: http://www.icomamerica.com

---

Icom Europe GmbH

Communication Equipment
Aul der Kleinstadt 24
45922 Bad Soden am Taunus, Germany

Phone: +49 (6196) 76685-0
Fax: +49 (6196) 76685-50
Email: info@icom.europa.com
URL: http://www.icom.europa.com

---

Icom Spain S.L.

Ctra. Real, No. 8b, *Edificio Can Castanyer*
Bajada A 01017, Sant Cugat del Vallés, Barcelona, Spain

Phone: +34 (93) 589 04 46
Fax: +34 (93) 589 04 47
Email: info@icomspain.com
URL: http://www.icomspain.com

---

Icom France s.a.s.

Zac de la Plaine, 1 Rue Broussais des Moulines, BP 40044, 31055 Toulouse Cedex 5, France

Phone: +33 (5) 61 36 03 03
Fax: +33 (5) 61 36 03 00
Email: info@icom-france.com
URL: http://www.icom-france.com

---

Icom (Australia) Pty. Ltd.

Unit 1 / 100 Garden Road,
Clayton, Vic. 3168 Australia

Phone: +61 (3) 9549 7500
Fax: +61 (3) 9549 7505
Email: sales@icom.net.au
URL: http://www.icom.net.au

---

Icom New Zealand

104 Haines Road, East Tamaki, Auckland, New Zealand

Phone: +64 (9) 274 4062
Fax: +64 (9) 274 4708
Email: info@icom.co.nz
URL: http://www.icom.co.nz

---

Asia Icom Inc.

6F No. 68, Sec. 1, Cheng-Teh Road,
Taipei, Taiwan, R.O.C.

Phone: +886 (02) 2559 1899
Fax: +886 (02) 2559 1874
Email: sales@asia-icom.com
URL: http://www.asia-icom.com

---

Shanghai Icom Ltd.

No. 120, Building 3, Caishagang Park,
No. 188 Mustang Road, Chaidun Town,
Songqiang District, Shanghai, 201611, China

Phone: +86 (21) 6153 7268
Fax: +86 (21) 5765 9987
Email: bjicom@bjicom.com
URL: http://www.bjicom.com

---

Icom Inc.

1-32, Kami-minami, Hirano-ku, Osaka 547-0003, Japan

Phone: +81 (06) 6793 5302
Fax: +81 (06) 6793 0013

URL: http://www.icom.co.jp/world

---

Count on us!