

**BATTERY PACKS**

**BP-283:** Rechargeable Li-ion 7.2 V/2010 mAh (typ.), 1910 mAh (min.). IP68 protection.  
**BP-284:** Rechargeable Li-ion 7.2 V/3210 mAh (typ.), 3070 mAh (min.). IP68 protection.

**BATTERY CHARGERS**

**BC-226:** Connectable type charger (connects up to six BC-226 units). Charges the BP-283/BP-284 in 2.7/4.3 hours.  
**+BC-228:** AC adapter. One AC adapter is required for up to six charger units.  
**BC-225:** Intelligent charger. Shows the charging information with the LED lighting. Charges the BP-283/BP-284 in 3/4.5 hours (approx.).  
**+ BC-123SA/SE/SV:** AC adapter.  
**RS-BC225:** Intelligent charger software for Windows® PC.  
**BC-227:** Compact type desk top charger. Charges the BP-283/BP-284 in 2.7/4.3 hours.  
**+ BC-123SA/SE/SV:** AC adapter.  
**BC-219N:** Desk top charger. Charges the BP-283/BP-284 in 3/4.5 hours.  
**+ BC-123SA/SE/SV:** AC adapter.  
**BC-214:** Multi-charger. Charges up to six BP-283/BP-284 batteries in 3/4.5 hours (approx.).  
**+ BC-157S:** AC adapter.  
\*AD-132N charger adapter is supplied with the BC-214, depending on version.

**POWER SUPPLY CABLES**

**CP-23L:** Vehicle charger cable for use with the BC-219N or BC-227.  
**OPC-515L:** DC power cable for use with the BC-219N, BC-225 or BC-227.  
**OPC-656:** DC power cable for use with the BC-214.



**SPEAKER-MICROPHONE**

**HM-222:** Speaker microphone with emergency button and 3.5 mm earphone jack. IP68 protection.



**HEADSETS AND PTT SWITCH CABLE**

**HS-94:** Earphone-headset (Use with VS-4MC).  
**HS-95:** Behind-the-head headset (Use with VS-4MC).  
**HS-97:** Throat microphone (Use with VS-4MC).  
**VS-4MC:** PTT switch cable. VS-4MC is required when using any of HS-94, HS-95, HS-97.



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**BELT CLIPS, BELT HANGERS AND CARRYING CASES**

**MB-133:** Alligator belt clip. Same as supplied.  
**MB-136:** Swivel belt clip.  
**MB-96N:** Swivel type leather belt hanger.  
**MB-96F:** Fixed type leather belt hanger. For use with the MBB-3.  
**MB-96FL:** Long fixed type leather belt hanger. For use with the MBB-3.  
**LC-184:** Hard type carrying case. Charging is possible while the case is attached.  
**LC-186:** Hard type carrying case. Charging is possible while the case is attached.



**OTHER OPTIONS AND CABLES**

**AD-118:** ACC adapter. For use with Hirose plug accessory.  
**UT-134:** AES/DES encryption unit.  
**OPC-2338:** Programming cable. USB-14-pin type.  
**OPC-1870:** Zone copy cable. Handheld to handheld type.  
**OPC-2362:** Zone copy cable. Handheld to mobile type.

**SOFTWARE AND ACTIVATION KEYS**

**CS-OTPM1:** OTAP manager software.  
**CS-OTAR1:** OTAR manager software.  
**CS-F3400D:** Programming software.  
**CS-KLD2:** Key-loader for UT-134.  
**ISL-UGMTR:** NXDN™ Type-D trunking upgrade key.  
**ISL-UGMD3:** dPMR™ Mode 3 trunking upgrade key.  
**ISL-AKAES:** AES activation key.  
**ISL-CHEX:** Channel expansion key.  
**ISL-AK25K:** 25 kHz activation key.  
**ISL-AKSTM:** Dealer set mode activation key.

**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

**STUBBY ANTENNAS**

**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

**CUT-TYPE ANTENNAS**

**FA-S67VC:** 136-174 MHz  
**FA-S76UC:** 380-520 MHz

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

VHF AND UHF DIGITAL TRANSCEIVERS

Look Smart, Work Smart

The IC-F3400D/F4400D series is Icom's new generation IDAS handheld radios. Incorporating cutting edge design, superb performance and a comprehensive range of features including built-in GPS and Bluetooth®, Active Noise Cancelling technology, digital voice playback and a USB port for easy programming and data transfer. Available in three versions for VHF and UHF, each radio features a high-resolution color LCD in a compact, IP68 waterproof body.

Small, slim and stylish with custom SoC (System-on-a-Chip)

Multiple operating modes (Available mode depending on version)

- NXDN™/dPMR™ conventional
- Upgradable to NXDN™ Type-D trunking
- Upgradable to dPMR™ Mode 3 trunking
- Analog FM

High-resolution transreflective color LCD

Icom's custom high power handling capacity speaker for 1300 mW of powerful audio

Built-in Bluetooth®, voice recording, active noise cancelling functions

Motion/stationary detection, man down and lone worker functions

Standard DES encryption, optional AES with OTAR (Over-the-Air-Rekeying)



**General Features**

- 136–174, 380–470, 450–520 MHz versions
- 1024 Channels / 128 Zones, 32 Channels / 2 Zones (Non-display type)\*  
\* IC-F3400D/F4400D/F3400DP/F4400DP (Non-display type): Up to 32 selected channels out of 1024 can be allocated to the channel knob.
- 4000 Channels with optional license key, ISL-CHEX
- High-resolution transreflective color LCD\*  
\* For IC-F3400DT/F3400DS/F3400DPT/F3400DPS/F4400DT/F4400DS/F4400DPT/F4400DPS (Display type)
- Day and night mode display settings
- Programmable functions and menu items in a language other than English (For example French, Spanish, German, Russian and Turkish)
- Continuous rotary knob and ON/OFF volume knob
- Quick lever switch on the top panel programmable for various functions such as lock, scrambler/encryption, etc.
- 1300 mW large volume audio from Icom custom speaker
- Improved sound clarity
- MIL-STD-810 G shock, vibration, temperature and more
- IP68 waterproof (1 m depth water for 1 hour) and dust-tight protection
- AquaQuake™ prevents audio degradation from a water-logged speaker
- 29.3 mm (1.2 inch) slim dimensions (with BP-283 battery pack)
- Battery information display
- Flat sheet keypad offers large button space and protects the radio from dust
- DTMF autodial and decoder

**Operating Mode (Available mode depending on version)**

- NXDN or dPMR Mode 1/2 conventional
- NXDN or dPMR multi-site conventional over IP network
- NXDN Type-D single/multi-site trunking\*  
\* License key (ISL-UGMTR) required.
- dPMR Mode 3 trunking\*  
\* License key (ISL-UGMD3) required. Not available in all regions.
- 12.5 kHz digital mode (NXDN conventional)
- Analog mode
- Analog/digital mixed operation (conventional mode)

**Digital Functions (Voice and Data)**

- Over-the-Air Programming (OTAP) function\*  
\* OTAP manager (CS-OTPM1) required.
- Over-the-Air Alias (OAA) sends own name with a call
- Over-the-Air Update (OTAU) changes the repeater channel data and site code over the air (NXDN Type-D trunking)
- Individual, group and all call
- Late entry for group call
- Status call and polling
- Short data messages (Up to 100 characters)
- Call alert (NXDN)
- GPS position
- Transparent data mode



Check our web site to know more about 6.25 kHz FDMA narrow band.  
www.icom.co.jp/world/fdma/

**Analog Functions**

- CTCSS and DTCS tone
- 2-Tone and 5-Tone
- MDC functions (Depending on version)
- BIIS 1200 functions
- LTR™ trunking (Depending on version)

**Security and Safety**

- Encryption: DES (4-key, 64-key)\*, AES  
\* 4-key standard. 64-key DES requires UT-134. AES requires UT-134 and ISL-AKAES.
- Over-the-Air-Rekeying (OTAR) function.  
\* OTAR manager (CS-OTAR1) required.
- Digital voice scrambler (Low level encryption)
- Analog voice scrambler (Inversion)
- Power ON password
- Tactical group temporarily reconfigures user talkgroups
- Remote Kill, Stun and Revive
- Remote monitor (NXDN)/ambience listening (dPMR)
- Emergency key for emergency call
- Man down function
- Lone worker function
- Motion/stationary detection

**Scan Functions**

- Priority scan
- Voting scan for site roaming

**Voice/Audio Functions**

- Voice announcement (Channel number and zone)
- VOX function for hands-free operation
- Voice recording/playback (Saves to a microSD card)\*  
\* A microSD card is required separately.
- The following information can be embedded in the WAV file; user IDs, GPS position, frequency, AF volume, RSSI, etc. (Depending on setting).
- Customized channel announcement
- TX/RX active noise canceller
- TX/RX audio equalizer (Flat, high/mid/low boost, low cut)
- Audio compander (Analog mode)

**Hardware Features**

- Programmable vibration alert and ringer beep
- Built-in Bluetooth® for wireless audio and data
- A third-party wireless Bluetooth® headset (for example, 3M™ Peltor™ WS™ 5 series) can be used\*  
\* Compatibility with third-party Bluetooth® headsets cannot be guaranteed.
- Wireless radio programming over Bluetooth®
- USB connector for data transfer mode or card reader mode
- 14-pin accessory connector
- Integrated GPS with GPS position screen and auto log function
- Internal clock with time auto adjustment
- Battery life cycle management with optional intelligent charger, BC-225, and software, RS-BC225
- microSD card slot

|  | IC-F3400DT/DS/D<br>NXDN Version  | IC-F3400DPT/DPS/DP<br>dPMR Version   | IC-F4400DT/DS/D<br>NXDN Version                                     | IC-F4400DPT/DPS/DP<br>dPMR Version   |
|--|--|--|---|--|
| <b>GENERAL</b>                                   |  |  |   |  |
| Frequency coverage*<br>(* Depending on version)  | 136–174 MHz  | 136–174 MHz  | 380–470 MHz,<br>450–520 MHz   | 380–470 MHz  |
| Number of channels                               | 1024 channels /128 zones<br>4000 channels /128 zones (Option)*1<br>32 channels /2 zones (Non-display type)*2 |  |   |  |
| Type of emission*<br>(* Depending on version)    | 16K0F3E*3, 14K0F3E,<br>11K0F3E,<br>8K50F3E, 8K30F1E/D,<br>4K00F1E/D  | 16K0F3E*3, 14K0F3E,<br>8K50F3E, 4K00F1E/D  | 16K0F3E*3, 14K0F3E,<br>11K0F3E,<br>8K50F3E, 8K30F1E/D,<br>4K00F1E/D | 16K0F3E*3, 14K0F3E,<br>8K50F3E, 4K00F1E/D  |
| Power supply requirement                         | 7.5 V DC nominal   |  |   |  |
| Current drain (approx.)                          | Tx   | 1.5 A  |   | 1.8 A  |
|  | Rx   | 580 mA/140 mA (Max. audio (internal SP)/Standby)   |   |  |
| Antenna impedance                                | 50 Ω   |  |   |  |
| Operating temperature range                      | –30 °C to +60 °C; –22 °F to +140 °F (Radio specifications)   |  |   |  |
| Dimensions (W × H × D; Projections not included) | 53.6 × 123.5 × 29.3 mm; 2.1 × 4.9 × 1.2 in (With BP-283)   |  |   |  |
| Weight (approx.)                                 | 180 g; 6.4 oz (main unit)  |  |   |  |
|  | 305 g; 10.8 oz (BP-283, MB-133, FA-S81VS)  |  | 300 g; 10.6 oz (BP-283, MB-133, FA-S81US)                           |  |
| <b>TRANSMITTER</b>                               |  |  |   |  |
| Output power (Hi, L2, L1)                        | 5 W, 2 W, 1 W  |  |   |  |
| Frequency stability                              | ±1.0 ppm   |  |   |  |
| Spurious emissions                               | 80 dB typical (USA)  |  |   |  |
|  | 0.25 μW (≤ 1 GHz), 1.0 μW (> 1 GHz) (EUR)  |  |   |  |
| FM Hum and noise                                 | 55 dB typical (@25 kHz), 55 dB typical (@12.5 kHz) (USA)   |  | 60 dB typical (@25 kHz), 59 dB typical (@12.5 kHz)                  |  |
| Audio harmonic distortion                        | 0.5% typical (AF 1 kHz, 40% deviation)   |  | 0.4% typical (AF 1 kHz, 40% deviation)                              |  |
| FSK error  | 1% typical (@DVN/DN)   |  |   |  |
| <b>RECEIVER</b>                                  |  |  |   |  |
| Sensitivity                                      | Analog (12 dB SINAD)   | 0.22 μV typical  |   | 0.23 μV typical  |
|  | Analog (20 dB SINAD)   | –5.5 dBμV emf typical (@25/20 kHz),<br>–2.5 dBμV emf typical (@12.5 kHz)                         |   | –5.0 dBμV emf typical (@25/20 kHz),<br>–2.0 dBμV emf typical (@12.5 kHz)                         |
|  | Digital (1% BER)   | –5.5 dBμV emf typical (0.26 μV typical) (@DVN),<br>–4.0 dBμV emf typical (0.32 μV typical) (@DN) |   | –4.0 dBμV emf typical (0.32 μV typical) (@DVN),<br>–4.0 dBμV emf typical (0.32 μV typical) (@DN) |
| Adjacent channel selectivity                     | Analog   | 80 dB typical (@25/20 kHz), 76 dB typical (@12.5 kHz)  |   | 75 dB typical (@25 kHz), 72 dB typical (@12.5 kHz)   |
|  | Digital  | 71 dB typical (@DVN), 70 dB typical (@DN)  |   | 66 dB typical (@DVN), 66 dB typical (@DN)  |
| Spurious response rejection                      | 81 dB typical  |  | 76 dB typical   |  |
| Intermodulation rejection                        | Analog   | 75 dB typical (USA)<br>67 dB typical (EUR)   |   | 74 dB typical (USA)<br>68 dB typical (EUR)   |
|  | Digital  | 72 dBμV emf typical (@DVN), –41 dBm typical (@DN)  |   | 73 dBμV emf typical (@DVN), –41 dBm typical (@DN)  |
| Audio output power                               | Internal SP  | 1300 mW typical (at 5% distortion with 8 Ω load)   |   |  |
|  | External SP  | 1000 mW typical (at 5% distortion with 8 Ω load)   |   |  |

Measurements made in accordance with TIA-603, EN300 086, EN301 166, EN300 113. All stated specifications are subject to change without notice or obligation.

\*1 Optional license key (ISL-CHEX) required.  
\*2 IC-F3400D/F4400D/F3400DP/F4400DP (Non-display type): Up to 32 selected channels out of 1024 can be allocated to the channel knob.  
\*3 25 kHz bandwidth is no longer available for FCC Part 90 licensees for USA versions.  
DVN: Digital Very Narrow (6.25 kHz), DN: Digital Narrow (12.5 kHz), DN is for NXDN version only.

**Applicable U.S. Military Specifications & IP Rating**

| Standard          | MIL 810G |           |
|-------------------|----------|-----------|
|                   | Method   | Procedure |
| Low Pressure      | 500.5    | I, II     |
| High Temperature  | 501.5    | I, II     |
| Low Temperature   | 502.5    | I, II     |
| Temperature Shock | 503.5    | I-C       |
| Solar Radiation   | 505.5    | I         |
| Rain Blowing/Drip | 506.5    | I, III    |
| Humidity          | 507.5    | II        |
| Salt Fog          | 509.5    | –         |
| Dust Blowing      | 510.5    | I         |
| Immersion         | 512.5    | I         |
| Vibration         | 514.6    | I         |
| Shock             | 516.6    | I, IV     |

Also meets equivalent MIL-STD-810-C, -D, -E and -F.

| Ingress Protection Standard |   |
|-----------------------------|---|
| Dust & Water                | IP68 (Dust-tight and waterproof protection) |

**Battery Life**

| Battery pack | Type         | Capacity                         | Operating time*      |
|--------------|--------------|----------------------------------|----------------------|
| BP-283       | Li-ion 7.2 V | 2010 mAh (typ.), 1910 mAh (min.) | 10.5 hours (Approx.) |
| BP-284       | Li-ion 7.2 V | 3350 mAh (typ.), 3120 mAh (min.) | 16.5 hours (Approx.) |

\* Tx: Rx: standby = 5:5:90 duty cycle. Power save function ON.

**Supplied accessories:**(May differ depending on version)  
• BP-283 battery pack • MB-133 belt clip