



VHF AND UHF DIGITAL TRANSCEIVERS

**IC-F1000D**

VHF transceiver

**IC-F2000D**

UHF transceiver

# Compact, Waterproof Digital Business Radio

**iDAS™**  
ICOM DIGITAL ADVANCED SYSTEM

***IDAS™ digital conventional***

***Type-D single-site trunking***

***Slim, compact and lightweight***

***IP67 waterproofing and dust-tight protection***

***Motion detection, man down and  
lone worker functions as standard***

***Good audio quality for noisy environments***

***Long-lasting battery life***

***Channel announcement function***



Limited functions.



NXDN





## SPECIFICATIONS

|  | IC-F1000D   | IC-F2000D                                       |
|--|---|---|
| <b>GENERAL</b>                                   |   |   |
| Frequency coverage                               | 136–174MHz  | 400–470MHz                                      |
| Number of channels                               | 16 channels   |   |
| Type of emission<br>(* Depending on version)     | 16K0F3E (25kHz), 14K0F3E (20kHz),<br>8K50F3E (12.5kHz), 4K00F1E/D (6.25kHz) |   |
| Power supply requirement                         | 7.5V DC nominal   |   |
| Current drain (approx.)                          |   |   |
| Tx High  | 1.3A  | 1.4A  |
| Rx Max. audio/Standby                            | 400mA (Internal SP)/110mA   | 400mA (Internal SP)/110mA                       |
| Antenna impedance                                | 50Ω   |   |
| Operating temperature range                      | –25°C to +55°C (Radio specifications)                                       |   |
| Dimensions (W×H×D)<br>(Projections not included) | 52.2×111.8×30.3 mm (With BP-280)  |   |
| Weight (approx.)                                 | 260g (With MB-133 and BP-280)   |   |
| <b>TRANSMITTER</b>                               |   |   |
| Output power (at 7.5V DC)                        | 5W, 2W, 1W (Hi, L2, L1)   | 4W, 2W, 1W (Hi, L2, L1)                         |
| Max. frequency deviation                         | ± 5.0kHz/±4.0kHz/±2.5kHz (Wide/Middle/Narrow)                               |   |
| Frequency stability                              | ±1.0ppm   |   |
| Spurious emissions                               | 0.25μV (≤ 1GHz), 1.0μV (> 1GHz)   |   |
| Residual modulation                              | 45/43/40dB min. (W/M/N)   |   |
| Audio harmonic distortion                        | 2.0%/1.1% typ. (W/N)<br>(AF 1kHz 40% deviation)                             | 1.0%/1.5% typ. (W/N)<br>(AF 1kHz 40% deviation) |
| FSK error  | 5.0% max.   |   |
| Ext. microphone connector                        | 3-conductor 2.5 (d) mm (1/10")/2.2kΩ  |   |
| <b>RECEIVER</b>                                  |   |   |
| Sensitivity (at 20dB SINAD)<br>(at 5% BER)       | –5/–5/–2dBμV emf typ. (W/M/N)<br>–8dBμV emf typ. (digital)                  |   |
| Adjacent channel selectivity                     | 70/70/60dB min. (W/M/N)<br>50dB min. (Digital)                              | 70/60/40dB min. (W/M/N)<br>50dB min. (Digital)  |
| Spurious response rejection                      | 80dB typ.   |   |
| Intermodulation rejection                        | 65dB min. (W/M/N)<br>71dBμV min. (Digital)                                  |   |
| Hum and noise                                    | 45/43/40dB min. (W/M/N)   |   |
| Audio output power                               |   |   |
| Internal SP (With 12Ω load)                      | 800mW typ. (at 5% distortion)   |   |
| External SP (With 8Ω load)                       | 400mW typ. (at 5% distortion)   |   |
| Ext. speaker connector                           | 2-conductor 3.5 (d) mm (1/8")/8Ω  |   |

Measurements made in accordance with EN 301 166 and EN 300 086.  
All stated specifications are subject to change without notice or obligation.

### 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         |
| Solar Radiation   | 505.5    | I         |
| Rain Blowing/Drip | 506.5    | I, III    |
| Humidity          | 507.5    | –         |
| 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                | IP67 (Dust-tight and waterproof protection) |



## OPTIONS

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



| Battery packs | Type           | Capacity                         | Operating time*       |
|---------------|----------------|----------------------------------|-----------------------|
| BP-278        | Li-ion<br>7.2V | 1130mAh (min.)<br>1190mAh (typ.) | 9 hours<br>(Approx.)  |
| BP-279        | Li-ion<br>7.2V | 1485mAh (min.)<br>1570mAh (typ.) | 12 hours<br>(Approx.) |
| BP-280        | Li-ion<br>7.2V | 2280mAh (min.)<br>2400mAh (typ.) | 18 hours<br>(Approx.) |

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

**RAPID CHARGER**

BC-123S\*\*  
Charges the BP-280 in 3.5 hours (approx.).

BC-213  
Charges up to six BP-280 battery packs in 3.5 hours (approx.).

**MULTI-CHARGER**

BC-157S  
Charges up to six BP-280 battery packs in 3.5 hours (approx.).

BC-214  
Charges up to six BP-280 battery packs in 3.5 hours (approx.).

**BELT CLIP**

MB-133  
Alligator type  
Same as supplied.

\*\* BC-123SA for USA plug, SE for Europe plug, SV for Australia plug, SUK for UK plug.

**CIGARETTE LIGHTER CABLE & POWER SUPPLY CABLE**

CP-23L  
For use with BC-213

OPC-656  
For use with BC-214

**CHARGER BRACKET**

MB-130  
For use with BC-213

**PTT SWITCH CABLE AND PLUG ADAPTER CABLE**

OPC-2004LA:  
For VOX operation.

VS-4LA: For manual PTT operation.  
\* Either VS-4LA or OPC-2004LA is required when using the HS-97.

**STUBBY ANTENNAS**

FA-SC26US FA-SC27VS FA-SC26VS

**STUBBY ANTENNAS**

- FA-SC26VS: 136–144MHz
- FA-SC27VS: 142–150MHz
- FA-SC56VS: 150–162MHz
- FA-SC57VS: 160–174MHz
- FA-SC26US: 400–450MHz
- FA-SC73US: 450–490MHz

**STANDARD ANTENNAS**

- FA-SC25V: 136–150MHz
- FA-SC55V: 150–174MHz
- FA-SC25U: 400–430MHz
- FA-SC57U: 430–470MHz

**CUT ANTENNAS**

- FA-SC61VC: 136–174MHz
- FA-SC61UC: 380–520MHz

**SPEAKER-MICROPHONES**

- HM-168LWP: Waterproof speaker microphone
- HM-171GPW: GPS speaker microphone
- HM-158LA: Compact type speaker microphone
- HM-159LA: Full size durable speaker microphone

**HEADSETS**

- HS-94LWP: Earphone-headset
- HS-95LWP: Behind-the-head headset
- HS-97: Throat microphone (Use with VS-4LA or OPC-2004LA)

**EARPHONE-MICROPHONES**

- HM-153LA: Durable earphone microphone
- HM-166LA: Light-weight earphone microphone

**CHARGER ADAPTER**

- AD-130: AD-130 charger adapter is supplied with the BC-214.

**Supplied accessories:** (May differ depending on version)

- Battery pack, BP-280
- Desktop charger, BC-213
- AC adapter, BC-123S
- Belt clip, MB-133
- Antenna



The "3D GENUINE Icom label" is attached to the rear chassis under the battery. Check the Icom website for details: <http://www.icom.co.jp/world/genuine-info/>

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