





° ICOM

NXDN

MIC

Compact, Waterproof Digital Business Radio



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





Compact, Slim Dimensions, Waterproof Digital Transceiver

IDAS[™] Digital Mode Operation

The IC-F1000D/F2000D can program Type-D single-site trunking and digital conventional modes as well as analog mode per channel. The IDAS digital mode employs 4-level FSK modulation and the NXDN[™] common air interface, offering true 6.25kHz spectrum efficiency, higher security and better audio clarity – even at the fringes of the communication range.

- The following IDAS features are programmable:
- PTT ID (TX) Individual/group calls
- Radio check (RX) Stun/Kill/Revive (RX)
- Remote monitor (RX) Emergency (TX)
- Call alert (RX) Digital voice scrambler (15-bit)
- Status Call (Power ON/OFF status and GPS request)

Voting scan for multi-site conventional operation
 TX: Transmit, RX: Receive

Intelligent Emergency Functions

To assist in worker safety, the IC-F1000D/F2000D has three emergency related functions: motion detection, man down and lone worker functions. If one of these functions are activated, the transceiver automatically enters an emergency phase and starts counting down to send an emergency signal. The built-in motion sensor detects its position and states motion and non-motion.

Optional GPS Speaker-Microphone

With the optional GPS speaker-microphone, HM-171GPW, GPS position data can be attached to a voice or data transmission such as responding a GPS request status call.





Photo includes optional stubby antenna.

о ICOM

NXDN

52.2mm

VHF AND UHF DIGITAL TRANSCEIVERS

IC-F1000D

IC-F2000

MIC

IP67 Waterproof and Dust-tight Protection

While the body is compact, the IC-F1000D/ F2000D has rugged construction providing superior protection against water (1m depth for 30 minutes), dust, sand, mud and other objects. The radio is also tested to MIL-STD 810 specifications. It can withstand harsh use.

Slim, Compact and Lightweight

The IC-F1000D/F2000D has a compact 52.2×111.8×30.3mm body and weighs only 260g (with BP-280 battery pack and belt clip). It's easy to carry around anywhere.

Easy to Hear in a Noisy Environment

The large 36mm speaker of the transceiver provides clear 800mW* audio. The built-in BTL amplifier increases the audio output power and delivers loud and intelligible voice to a radio operator working in noisy environments. * Typical with internal speaker.

Built-in 2-Tone and 5-Tone (Analog mode)

The IC-F1000D/F2000D has built-in 2-Tone, 5-Tone, CTCSS and DTCS signaling capability for analog mode group communication and selective calling. The IC-F1000D/F2000D can be used as an analog transceiver ready for future digital migration.

Long-Lasting Battery Pack

The large capacity waterproof battery pack, BP-280 (2400mAh typ.), provides 18 hours of operating time*. The supplied rapid charger BC-213* charges the BP-280 in 3.5 hours. * Tx: Rx: Standby=5:5:90. Power save function ON. BC-213 may be not supplied depending on version.

Other Features

- DTMF autodial memories
- MDC 1200 functions: PTT ID, emergency call, radio check (RX) and stun/revive (RX)
- Surveillance function
- Escalating alarm
- VOX capability for hands-free operation
- Channel announcement function
- Red emergency switch on the top panel

The IC-F1000D/F2000D: Extensive Optional Accessories



VHF AND UHF DIGITAL TRANSCEIVERS

IC-F1000D · IC-F2000

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

Type

Li-ion

7.2V

Li-ion

7.2V

Li-ior

7.2V

BC-214

Charges up to six BP-280 battery packs in 3.5

Capacity

1130mAh (min.)

1190mAh (typ.)

1485mAh (min.)

1570mAh (typ.)

2280mAh (min.)

2400mAh (typ.)

BC-157S

PTT SWITCH CABLE AND

PLUG ADAPTER CABLE

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

Battery

packs

BP-278

BP-279

BP-280

MULTI-CHARGER

hours (approx.).

CHARGER BRACKET

¹ BC-123SA for USA plug. SE for Europe plug. SV for Australia plug. SUK for UK plug.

SPECIFICATIONS

	IC-F1000D	IC-F2000D		
GENERAL				
Frequency coverage	136–174MHz	360–400MHz (EXP), 400–470MHz, 450–512MHz (USA), 450–520MHz (AUS)		
Number of channels	16 channels			
Type of emission	16K0F3E*, 11K0F3E*,	16K0F3E*, 11K0F3E,		
(* Depending on version)	8K50F3E, 4K00F1E/D	4K00F1E/D		
Channel spacing (* Depending on version)	30*/15*/6.25kHz 25*/12.5/6.25kHz	25*/12.5/6.25kHz		
Power supply requirement	7.5V DC	nominal		
Current drain (approx.) Tx High	1.3A	1.4A		
Rx Max. audio/Standby		400mA (Internal SP)/110mA		
Antenna impedance	50Ω			
Operating temperature range Dimensions (W×H×D)	-30°C to +60°C; -22°F to +140°F (Radio specifications)			
(Projections not included)	52.2×111.8×30.3 mm; 2.06×4.4×1.19 in (With BP-280)			
Weight (approx.)	260g; 9.17oz (With MB-133 and BP-280)			
	200g, 3.1702 (With	MD-133 and DF-280)		
TRANSMITTER				
Output power (at 7.5V DC)	5W, 2W, 1W (Hi, L2, L1) 4W, 2W, 1W (Hi, L2, L1)			
Max. frequency deviation	± 5.0kHz/±2.5kHz (Wide/Narrow)			
Frequency stability	±1.0ppm			
Spurious emissions	70dB min.			
FM Hum and noise	46/40dB typ. (W/N)	50/44dB typ. (W/N)		
Audio harmonic distortion	2.0%/1.1% typ. (W/N) (AF 1kHz 40% deviation)	1.0%/1.5% typ. (W/N) (AF 1kHz 40% deviation)		
FSK error	5.0% max.			
Ext. microphone connector	3-conductor 2.5 (c	d) mm (1/10″)/2.2kΩ		
RECEIVER	<u> </u>			
Sensitivity (at 12dB SINAD)	0.21µV typ.	0.24µV typ.		
(at 5% BER)	-8dBµV emf typ.	-8dBµV emf typ.		
Adjacent channel selectivity	77/69/59dB typ. (W/N/D)	75/69/58dB typ. (W/N/D)		
Spurious response rejection	80dB typ.			
Intermodulation rejection	75/75/71dB typ. (W/N/D)	75/75/70dB typ. (W/N/D)		
Hum and noise	47/43dB typ. (W/N)	47/42dB typ. (W/N)		
Audio output power Internal SP (With 12Ω load) External SP (With 8Ω load)	800mW typ. (at 5% distortion) 400mW typ. (at 5% distortion)			
Ext. speaker connector	2-conductor 3.5 (d) mm (1/8")/8Ω			

Measurements made in accordance with TIA-603.

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

* 25kHz bandwidth is no longer available for FCC Part 90 licensees for USA versions

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	Ι
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.

Dust & Water IP67 (Dust-tight and waterproof protection) GENUINE blogram Label Attached

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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Count on us!

OPC-2004LA: For VOX operation VS-4LA: For manual PTT operation OPC-656 Either VS-4LA or OPC-2004LA is required MB-130 For use with For use with BC-213 when using the HS-97 STUBBY ANTENNAS STANDARD ANTENNAS • FA-SC26VS: 136-144MHz • FA-SC25V: 136-150MHz • FA-SC55V: 150-174MHz • FA-SC27VS: 142-150MHz • FA-SC56VS: 150-162MHz • FA-SC25U: 400-430MHz FA-SC57VS: 160-174MHz • FA-SC57U: 430-470MHz • FA-SC7211: 470-520MHz • FA-SC26US: 400-450MHz • FA-SC73US: 450–490MHz • FA-SC01U: 350-400MHz • FA-SC02U: 330-380MHz CUT ANTENNAS

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

Operating

time'

9 hours

(Approx.)

12 hours

(Approx.)

18 hours

(Approx.)

BELT CLIP

MB-133

Alligator type

Same as supplied

HEADSETS

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

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		

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SPEAKER-MICROPHONES

EARPHONE-MICROPHONES

HM-168LWP: Waterproof speaker microphone
 HM-171GPW: GPS speaker microphone

• HM-153LA: Durable earphone microphone

• HM-166LA: Light-weight earphone microphone

• HM-158LA: Compact type speaker microphone

• HM-159LA: Full size durable speaker microphone

BC-214



CIGARETTE LIGHTER CABLE &

POWER SUPPLY CABLE

BP-279

BP-280

OPTIONS

BP-278

(approx.)

CP-23L

BC-213

For use with

STUBBY ANNTENAS