

IC-F1000D

IC-F2000D

UHF transceive

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 analogue 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 position, state of 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.

System image diagram







VHF AND UHF DIGITAL TRANSCEIVERS

IC-F1000D IC-F2000D

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 (Analogue mode)

The IC-F1000D/F2000D has built-in 2-Tone, 5-Tone, CTCSS and DTCS signaling capability for analogue mode group communication and selective calling. The IC-F1000D/F2000D can be used as an analogue 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 functions: PTT ID, emergency call, radio check (RX) and stun/revive (RX)
- BIIS PTT ID call
- Surveillance function
- Escalating alarm
- VOX capability for hands-free operation
- Channel announcement function
- Red emergency switch on the top panel

The IC-F1000D/F2000D: **Added Value Optional Accessories**



Manufacturing & Construction

»Headsets



HS-95LWP

Behind-the-head type with boom microphone provides hands-free

HS-97 +VS-4LA or OPC-2004LA

Throat microphone picks up your speech vibration, even in a noisy environment.



Facility & Security Guard

»Speakermicrophones



HM-171GPW

GPS speaker-microphone for sending GPS position data with voice

HM-168LWP

IP67 waterproof speakermicrophone for outdoor work or places prone to getting wet.





Retail & Hospitality

»Earphonemicrophones



HM-153LA

Durable lapel microphone with earphone for low-profile, discreet placement.

IC-F1000D • IC-F2000D

SPECIFICATIONS

	IC-F1000D	IC-F2000D	
GENERAL			
Frequency coverage	136-174MHz	400-470MHz	
Number of channels	16 channels		
Type of emission	16K0F3E (25kHz), 14K0F3E (20kHz),		
(* Depending on version)	8K50F3E (12.5kHz), 4K00F1E/D (6.25kHz)		
Power supply requirement	7.5V DC nominal		
Current drain (approx.)	404		
Tx High	1.3A	1.4A	
	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) (Projections not included)	52.2×111.8×30.3 mm (With BP-280)		
Weight (approx.)	260g (With MB-133 and BP-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/±4.0kHz/±2.5kHz (Wide/Middle/Narrow)		
Frequency stability	±1.0ppm		
Spurious emissions	0.25μW (≤ 1GHz), 1.0μW (> 1GHz)		
Residual modulation	45/43/40dB min. (W/M/N)		
Audio harmonic distortion	2.0%/1.1% typ. (W/N)	1.0%/1.5% typ. (W/N)	
	(AF 1kHz 40% deviation)	(AF 1kHz 40% deviation)	
FSK error	5.0% max.		
Ext. microphone connector	3-conductor 2.5 (d) mm (¹ / ₁₀ ")/2.2kΩ		
RECEIVER			
Sensitivity (at 20dB SINAD)	$-5/-5/-2dB\mu V$ emf typ. (W/M/N) $-8dB\mu V$ emf typ. (digital)		
(at 5% BER)			
Adjacent channel selectivity		70/60/40dB min. (W/M/N)	
· · · · · · · · · · · · · · · · · · ·	50dB min. (Digital)	50dB min. (Digital)	
Spurious response rejection			
Intermodulation rejection	65dB min. (W/M/N)		
Hum and noise	71dBµV min. (Digital)		
	45/43/40dB min. (W/M/N)		
Audio output power Internal SP (With 12Ω load)	800m\// +un /a	at 5% distortion)	
External SP (With 8Ω load)			
Ext. speaker connector	2-conductor 3.5 (d) mm (½")/8Ω		
	2-conductor 3.5 (d) Hill (78)/652		

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

Observational	MIL 810G		
Standard	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	Туре	Capacity	Operating time*
BP-278	Li-ion	1130mAh (min.)	9 hours
	7.2V	1190mAh (typ.)	(Approx.)
BP-279	Li-ion	1485mAh (min.)	12 hours
	7.2V	1570mAh (typ.)	(Approx.)
BP-280	Li-ion	2280mAh (min.)	18 hours
	7.2V	2400mAh (typ.)	(Approx.)







BELT CLIP

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

hours (approx.)



(approx.)



CHARGER BRACKET



PTT SWITCH CABLE AND PLUG ADAPTER CABLE



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-MICROPHONE

HM-168LWP: Waterproof speaker microphone

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 charger adapter is supplied with the BC-214.

Supplied accessories: (May differ depending on version)

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



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/

Les spécifications et informations données dans ce document peuvent être modifiées sans préavis. La configuration du poste peut varier suivant les versions.

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