



VHF AND UHF DIGITAL TRANSCEIVERS (dPMR™)

IC-F1000D

VHF transceiver

IC-F2000D

UHF transceiver

Compact, Waterproof Digital Business Radio

iDAS™
ICOM DIGITAL ADVANCED SYSTEM

dPMR™ Mode 1/2 digital operation

Slim, compact and lightweight

IP67 waterproofing and dust-tight protection

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

Good audio quality for noisy environments

Long-lasting battery life

Channel announcement function



VHF AND UHF DIGITAL TRANSCEIVERS (dPMR™) IC-F1000D • IC-F2000D

SPECIFICATIONS

	IC-F1000D	IC-F2000D
GENERAL		
Frequency coverage	136–174MHz*	400–470MHz*
Number of channels	16 channels	
Type of emission (* Depending on version)	16K0F3E (25kHz), 14K0F3E (20kHz), 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 (Internal SP)	400mA	400mA
Standby	110mA	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	52/50/46dB typ. (W/M/N)	54/53/48dB typ. (W/M/N)
Audio harmonic distortion	2.0%/1.1%/1.1% typ. (W/M/N) (AF 1kHz 40% deviation)	1.0%/1.0%/1.5% typ. (W/M/N) (AF 1kHz 40% deviation)
FSK error	5.0% max.	
Ext. microphone connector	3-conductor 2.5 (d) mm (1/16")/2.2kΩ	
RECEIVER		
Sensitivity (at 20dB SINAD) (at 5% BER)	–4dBμV emf typ. (W/M/N) –8dBμV emf typ. (Digital)	–5/–5/–2dB emf typ. (W/M/N) –8dBμV emf typ. (Digital)
Adjacent channel selectivity	77/74/69dB typ. (W/M/N) 59dB typ. (Digital)	75/74/69dB typ. (W/M/N) 58dB typ. (Digital)
Spurious response rejection	80dB typ.	
Intermodulation rejection	69dB typ. (W/M/N) 74dBμV emf typ. (Digital)	70dB typ. (W/M/N) 74dBμV emf typ. (Digital)
Hum and noise	52/50/46dB typ. (W/M/N) / 50/48/45dB typ. (W/M/N)	
Audio output power	800mW typ. (at 5% distortion) 400mW typ. (at 5% distortion)	
Internal SP (With 12Ω load)		
External SP (With 8Ω load)		
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.

*Some frequency ranges may be restricted, depending on country.

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 7.2V	1130mAh (min.) 1190mAh (typ.)	9 hours (Approx.)
BP-279	Li-ion 7.2V	1485mAh (min.) 1570mAh (typ.)	12 hours (Approx.)
BP-280	Li-ion 7.2V	2280mAh (min.) 2400mAh (typ.)	18 hours (Approx.)

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

RAPID CHARGER



Charges the BP-280 in 3.5 hours (approx.).

MULTI-CHARGER



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

BELT CLIP



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



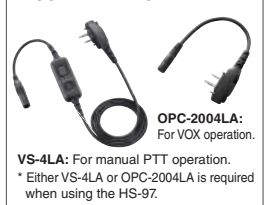
STUBBY ANTENNAS



CHARGER BRACKET



PTT SWITCH CABLE AND PLUG ADAPTER CABLE



STANDARD 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

CUT ANTENNAS

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