



IC-F1100DT IC-F2100DT

VHF AND UHF DIGITAL TRANSCEIVERS

Big on Audio, Small on Size 1500 mW Class Leading Audio

136–174, 350–400, 400–470, 450–520 MHz
128 Channels / 8 Zones
Compact (52.2 (W) × 111.8 (H) mm; 2.1 × 4.4 in) and lightweight
IP67 waterproof and dust-tight protection
Tested to 12 categories of MIL-STD-810-G environmental tests
AquaQuake™ – Expels water ingress from the speaker grill
DTMF autodial memories
16-position rotary selector and ON/OFF volume knob
Programmable keys – Increase the number of programmable key assignments by using the “Shift key”
Eight character alphanumeric display
Three color LED

AMBE+2™ vocoder
Over-the-Air Alias (OAA) displays the caller's name without programming
Individual, Group and All call
Late entry for Group call
Status call and Polling
Short data messages
Call alert (NXDN)
Radio check (RX only) (NXDN)
GPS position capabilities (requires HM-171GPW)
Up to 500 ID numbers for IDAS or MDC 1200 signaling system can be saved in the Call List to show the alias name

CTCSS and DTCS tone
2-Tone and 5-Tone
MDC functions*; PTT ID, Emergency (TX/RX), Radio check (RX), Stun (RX), Revive (RX) (* Depending on version)
BIIS PTT ID transmission

Digital voice scrambler (Low level encryption)
Radio Stun/Revive/Kill (RX only)
Remote monitor (NXDN)/ambience listening (dPMR)
Man down, Lone worker and Emergency call key capability
Motion and Stationary detection function
Surveillance function temporarily turns OFF the beep and LED indicator
Power ON password

Priority scan monitors one or two priority channels while scanning non-priority channels
Voting scan automatically selects the optimal repeater site
Mode dependent scan automatically changes the scan list, depending on the operating channel
Power ON scan function
Talk Back timer

Channel announcement function
VOX function for hands-free operation
Siren sound for security alarm

Operating time of up to 20 hours with the BP-280



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SPECIFICATIONS

	IC-F1100DT		IC-F2100DT
GENERAL			
Frequency coverage	136– 74 MHz		350–400 MHz 400–470 MHz 450–520 MHz
Number of channels	128 channels/ 8 zones		
Type of emission	16K0F3E, 14K0F3E, 11K0F3E, 8K50F3E, 4K00F1E, 4K00F1D		
Channel spacing	25/20/12.5/6.25 kHz		
Power supply requirement	7.5 V DC nominal		
Current drain	Tx	1.3 A (at 5 W)	1.6 A (at 5 W)
	Rx	520 mA /110 mA (Max. audio (internal SP)/Standby)	
Antenna impedance	50 Ω		
Operating temperature range	–30°C to +60°C; –22°F to +140°F		
Dimensions (W × H × D)/Weight	52.2 × 111.8 × 34.1 mm; 2.1 × 4.4 × 1.3 in (With BP-280) / 277 g		
TRANSMITTER			
Output power (Hi, L2, L1)	5 W, 2 W, 1 W		
Maximum frequency deviation	± 5.0 kHz (25 kHz), ±4.0 kHz (20 kHz), ±2.5 kHz (12.5 kHz)		
Spurious emissions	70 dB minimum 0.25 μW (≤ 1 GHz), 1.0 μW (> 1 GHz)		
Frequency stability	±2.0 ppm		±1.0 ppm
Audio frequency response	+1 dB to -3dB of 6dB/ octave range from 300Hz to 3000Hz (25 kHz)/2550 (12.5k Hz)		
Adjacent channel power	75 dB (25 kHz) 70 dB (12.5 kHz)		
Audio harmonic distortion	0.7%/0.9%/1.0% (25/20/12.5 kHz) (at AF 1 kHz 40% deviation)		
FM Hum and Noise	55 dB (25 kHz), 50 dB (12.5 kHz)		
Residual modulations	55/52/50 dB (25/20/12.5 kHz)		
FSK error	5% maximum		
External microphone connector	3-conductor 2.5 (d) mm (1/10 in)/2.2 kΩ		
RECEIVER			
Sensitivity	Digital	–9 dBμV emf (0.18 μV) (at 5% BER) –8 dBμV emf (0.20 μV) (at 5% BER)	
	Analog	0.24 μV (at 12 dB SINAD) –5/–5/–2 dBμV emf (25/20/12.5 kHz) (at 20 dB SINAD)	
Adjacent channel selectivity	Digital	60 dB	
	Analog	80/75/70 dB (25/20/12.5 kHz)	
Spurious response rejection	80 dB		
Intermodulation rejection	Digital	75 dB, 75 dBμV emf	
	Analog	80 dB (25 kHz), 75 dB (12.5 kHz)	
Audio frequency response	+1 dB to -3dB of 6dB/ octave range from 300Hz to 3000Hz (25 kHz)/2550 (12.5k Hz)		
Hum and noise	55 dB (25 kHz), 50 dB (12.5 kHz)		
AF output power (at 5% distortion)	1500 mW int. speaker/450 mW ext. speaker (With an 8 Ω load)		
External speaker connector	2-conductor 3.5 (d) mm (1/8 in)/8 Ω		

All stated specifications are subject to change without notice or obligation.
Measurements made in accordance with TIA-603 or EN 300-086, EN 301-166

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	IP67 (Dust-tight and Immersion) IP55/IP54 (Dust and Water jets/Water resistant)

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VHF AND UHF DIGITAL TRANSCEIVERS

IC-F1100DT • IC-F2100DT

BATTERY PACKS

Battery packs	Type	Capacity	Operating time*
BP-279	Li-ion 7.2V	1600mAh	14 hours (Approx.)
BP-280	Li-ion 7.2V	2450mAh	20 hours (Approx.)

*Tx; Rx; standby = 5:5:90. Power save function ON. Capacity : Typical Spec.

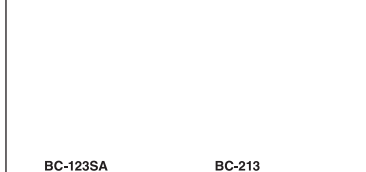


BELT CLIP



MB-133
Alligator type
Same as supplied

RAPID CHARGER



MULTI-CHARGER



Chargers up to six BP-279 battery packs in 2.5 hour (approx.)

CIGARETTE LIGHTER CABLE & POWER SUPPLY CABLE



CP-23L
For use with BC-213

OPC-656
For use with BC-214

PTT SWITCH CABLE & PLUG ADAPTER CABLE



VS-4LA

OPC-2004LA

Either VS-4LA or OPC-2004LA is require when using HS-97

SPEAKER-MICROPHONE



EARPHONE-MICROPHONE



HM-2PL-OW

HM-166LA

GSR-M1
Earphone Microphone
for Thai Version Only

CHARGER BRACKET



MB-130
For use with BC-213
CHARGER ADAPTER
AD-130 Charger adapter is
supplied with the BC-213

HEADSETS



HS-94LWP
Ear-hook type

HS-95LWP
Behind-the-head type

HS-97
Throat type

STANDARD ANTENNAS

• FA-SC25V: 136-150MHz • FA-SC72U: 470-520MHz
• FA-SC55V: 150-174MHz • FA-SC01U: 350-400MHz
• FA-SC25U: 400-430MHz
• FA-SC57U: 430-470MHz

STUBBY ANTENNAS

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

CUT ANTENNAS HIGH GAIN ANTENNAS

• FA-SC61VC: 136-174MHz • FA-SC62V: 150-160MHz
• FA-SC61UC: 380-520MHz • FA-SC63V: 155-165MHz



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/>

Supplied accessories: (May differ depending on version)

- Battery pack, BP-279 or BP-280
- Desktop charger, BC-213
- AC adapter, BC-123S
- Belt clip, MB-133
- Antenna