



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		136–174 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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BATTERY PACKS

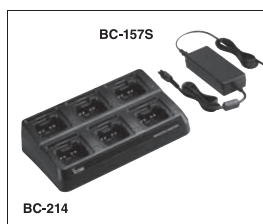
Battery packs	Type	Capacity	Operatings time*
BP-279	Li-on 7.2V	1600mAh	14 hours (Approx.)
BP-280	Li-on 7.2V	2450mAh	20 hours (Approx.)

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

BATTERY CHARGERS

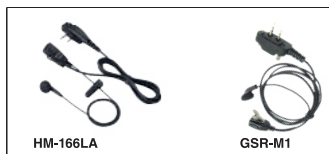
BC-213: Desktop charger
Charges the BP-279 or BP-280. Charges the BP-280 in 3.5 hours (approximate).
+ **BC-123SA/SE/SUK/SV** or **BC-242:** AC adapter.

BC-214: Multi-charger.
Charges up to six radios and/or batteries at the same time.
+ **BC-157S:** AC adapter.
* AD-130 charger adapter is supplied with the BC-214, depending on the version.



EARPHONE-MICROPHONES

HM-166LA: Light weight lapel microphone with earphone.
GSR-M1: Earphone microphone for Thai version only



SPEAKER-MICROPHONES

HM-171GPW: GPS speaker microphone with a waterproof connector. IP67 protection.
HM-168LWP: Waterproof speaker microphone with a waterproof connector. IP67 protection.
HM-159LA: Speaker microphone with a 3.5 mm earphone jack.
HM-158LA: Compact speaker microphone with a 3.5 mm earphone jack.



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



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/>