ICOM

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icom Inc.

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IC-F4230DT

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VHF AND UHF DIGITAL TRANSCEIVERS



UHF Transceiver with Full Keypad

VHF Transceiver with Simple Keypad



IDAS[™] Multi-site Trunking Radio with Superior Waterproof Protection



IDAS[™] digital mode operation

The IC-F3230D series provides NXDN™ CAI-based IDAS digital mode operation. It is compatible with IDAS multi-site and single-site trunking and IDAS multi-site conventional.

IP67 waterproof and dust-tight protection

The IC-F3230D series provides outstanding protection against water and dust equivalent to IP67. The IC-F3230D series can withstand 1 m depth of water for 30 minutes and its dust-tight construction prevents the ingress of powder dust, sand, mud and other objects.

Easy to hear in noisy areas

The built-in bridge-tied load (BTL) amplifier delivers a powerful 1000 mW* audio output from the large speaker. In addition, the digital modulation provides distinct clarity even at the fringes of the communication range. * Typical with internal speaker

Channel announcement

When you change the operating channel, the radio announces the channel number. Convenient for making radio adjustments without having to look at the radio.

8-character LCD

An 8-character alphanumeric LCD with user-friendly icons shows a variety of information and operating status such as caller's name, received message, etc.

Roaming scan

In the multi-site trunking mode, if the signal condition worsens as the radio user moves, the roaming scan automatically finds a new site to retain the communication link and quality.

IDAS[™] digital mode features

- Up to 500 individual and up to 500 group ID aliases (Each for single-site/multi-site/conventional)
- PTT ID and ANI SDM (Short Data Message)
 - RAN (Radio Access Number)
- Status Radio check (RX)
 - Stun/kill/revive (BX) Remote monitor (RX)
- Call alert Emergency
 - · Digital voice scrambler
- ATB (All Trunks Busy) ring back * TX: Transmit, RX: Receive

Other features

- CTCSS/DTCS encoder/decoder*
- Up to 128 memory channel with 8 zones
- Optional HM-168LWP, waterproof speaker-mic
- Low battery alert 2-step power save
- Voting scan Time out timer
- Talk around function
 Lone worker function
- Surveillance function
 Forced narrow function* * Analog mode only.

Note: IC-F3230DT/F4230DT is NOT available in some countries. (Not available in the USA.)







IC-F3230DS

Icom Inc.

P0 P1

P2 P3

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SPECIFICATIONS

	IC-F3230DT/DS	IC-F4230DT/DS	
GENERAL			
Frequency coverage (MHz)	136–174	350-400, 400-470	
Frequency coverage (IVIHZ)	130-174	450-512, 450-520	
Number of channels	128 channels/8 zones 16K0F3E*/11K0F3E/8K50F3E/4K00F1E/F1		
Type of emission			
Channel spacing	25*/12.5/6.25 kHz		
Power supply requirement	7.5 V DC nominal		
Current drain TX	1.3 A (High)		
(approx.) RX	400 mA/100 mA (Max. audio/Standby)		
Antenna impedance	50 Ω		
Operating temperature range		–22 °F to +140 °F	
	(Radio specifications)		
Dimensions ($W \times H \times D$)	53 × 120 × 37 mm; 2.1 × 4.7 × 1.5 in		
(Projections not included)	(With BP-232WP)		
Weight (approx.)	340 g; 12 oz (With MB-9	4R, BP-232WP & antenna)	
TRANSMITTER			
Output power (at 7.5 V DC)	5 W, 2 W, 1 W (Hi, L2, L1)	4 W, 2 W, 1 W (Hi, L2, L1)	
Max. frequency deviation	±5.0/±2.5 kHz (Wide/Narrow) ±1.0 ppm		
Frequency stability			
Spurious emissions	75 d	B typ.	
FM Hum and Noise	52/46 dB typ. (W/N)	46/40 dB typ. (W/N)	
Audio harmonic distortion		Hz 40% deviation, W/N)	
FSK error		typ.	
Ext. microphone connector	3-conductor 2.5 (d	<u>) mm (1⁄10″)/2.2 kΩ</u>	
RECEIVER			
Sensitivity (Analog 12 dB SINAD)	0.23 µV typ.	0.24 µV typ.	
(Digital 5% BER)	0.18 µV typ.	0.18 µV typ.	
Adjacent channel selectivity	77/71/58 dB typ. (W/N/D)		
Spurious response rejection	90 dB typ.	80 dB typ.	
Intermodulation rejection	75/75/70 dB typ. (W/N/D)		
Hum and noise	48/42 dB typ. (W/N)	46/40 dB typ. (W/N)	
Audio output power		Internal speaker)	
(at 5% distortion, 8 Ω load)	400 mW typ. (External speaker)		
Ext. speaker connector	2-conductor 3.5	(d) mm (½8″)/8 Ω	

Measurements made in accordance with EIA/TIA-603.

All stated specifications are subject to change without notice or obligation. * 25 kHz bandwidth is no longer available for FCC Part 90 licensees for USA versions. Ask your dealer if you need 25 kHz bandwidth.

Applicable U.S. Military Specifications & IP Rating

Standard	MIL 810G	
Statiuaru	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
lumidity	507.5	II
Salt Fog	509.5	-
Dust Blowing	510.5	I
mmersion	512.5	Ι
/ibration	514.6	I
Shock	516.6	I, IV

Also meets equivalent MIL-STD-810-C, -D, -E and -F.

Ingress Protection Standard (IC-F3230DT/DS, F4230DT/DS with BP-232WP)
Dust & Water	IP67 (Dust-tight and waterproof protection)

Supplied accessories: (* May differ or not supplied according to version)				
 Battery pack, BP-232WP 	 Belt clip, MB-94R 	 Antenna 		
 Desktop charger, BC-160* 	 AC adapter, BC-145S/ 	A/SE*		

OPTIONS

BATTERY PACK AND CASES IP67 BP-232WP BP-240 BP-261

	Battery packs and cases	Туре	Capacity	Operating time*
	BP-232WP	Rechargeable Li-ion battery	2200 mAh (min.) 2350 mAh (typ.)	19/17 hours (VHF/UHF)
	BP-240	LR03 (AAA) batteries × 6		-
	BP-261	LR6 (AA) batteries × 6		-

MULTI-CHARGER

REGULAR CHARGER RAPID CHARGER



Charges the BP-232WP in 8-10 hours (approx.).

SPEAKER-MICROPHONES

1P67

BC-123/BC-147SA for USA plug. SE for Europe plug. SV for Australia plug.

BC-123S

Charges the BP-232WP in 3 hours (approx.).

BC-157S BC-197 Charges up to six BP-232WP battery packs in 3.5 hours (approx.). EARPHONE-MICROPHONE



BC-160

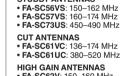




OPC-656

For use with BC-160 For use with BC-197





• FA-SC62V: 150–160 MHz • FA-SC63V: 155–165 MHz

ANTENNAS

VS-4LA

Required

. headsets,

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

- FA-SC57U: 430–470 MHz FA-SC72U: 470–520 MHz
- FA-SC01U: 350-400 MHz

• FA-SC03U: 380–430 MHz

CHARGER ADAPTER • AD-122

AD-122 charger adapter is supplied with the BC-197, depend-ing on BC-197's version.

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