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IC-F3102D IC-F4102D

UHF transceive





dPMR™ Mode 1/2 Conventional Mode

Digital/Analogue Mixed Mode Operation

Superb Digital Audio Clarity

Digital Voice Scrambler

Built-in 2-Tone, 5-Tone, CTCSS and DTCS (Analogue Mode)

800mW (typ.) Loud and Intelligible Audio

IP54 and MIL-STD-810 F Rugged Construction

Long Lasting Battery Life

Channel Announcement

5W (VHF), 4W(UHF) RF Output Power

16 Channels





More than Just Smooth Digital Migration!

Non-slip, Large PTT



The large PTT button is designed to provide non-slip, confident-click, even wearing gloves.

Channel Announcement

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



800mW Loud Audio



The large 45mm speaker delivers up to 800mW* of loud audio! Digital modulation adds distinct clarity to received voices.

*Typical with internal speaker.

Bright 3-Color LED

The bright LED shows the operating status: red for transmit, green for listening, or orange for low battery, etc.

Hands-free Operation

Optional headset with plug adapter cable OPC-2004 provides handsfree operation.



Long Lasting Battery Life

Battery pack	Type and capacity	Operating time* (Approx.)
BP-264	Ni-MH 7.2V 1400mAh	12 hours
BP-265	Li-lon 7.4V 1900mAh (min.) 2000mAh (typ.)	17.5 hours

* Digital mode, Tx: Rx: Standby=5:5:90.Power save function ON.

Built Military Rugged!

Okay to use in the rain! Tested to IP54 and 11 categories of MIL STD-810 F environmental tests.

Compact and Light Weight

58×111.5×36.5 mm 320g/310g with BP-265. (VHF/UHF)

dPMR™ Mode 1/2 Operation

The IC-F3102D series provides basic operation in dPMR Mode 1, 2 conventional mode. It is also compatible with Mode 2 multi-site system. The following dPMR features are programmable.

- PTT ID (TX) Individual/Group call
- CC (Channel Code)
- Power ON/OFF status call (TX)
- GPS request status call (RX)
- Stun/kill/revive (RX) Ambience listening (RX)
- Enhanced emergency Lone worker
- Digital voice scrambler
- GPS (TX only with HM-171GP)

TX: Transmit, RX: Receive

Voting Scan

The voting scan detects the signal strength of the repeater sites and automatically selects the strongest station. This function is useful for roaming between multiple repeater sites. Scan setting can be assigned to the channel knob. (It is recommended to test the voting performance during installation.)

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Built-in 2-Tone and 5-Tone (Analogue Mode)

2-Tone and 5-Tone signalings give you selective calling, quiet stand-by and other convenient functions. The radio stun and kill functions disable a radio over the air and the revive function restores the stunned radio.

Other Features (* = analogue only)

- CTCSS/DTCS encoder/decoder*
- BIIS PTT ID transmission*
- DTMF autodial Low battery alert
- 2-step power save PC programmable
- Time out timer Talk around function
- Lone worker function
- Surveillance function
- Forced narrow function*
- Escalating alarm

VHF & UHF DIGITAL/ANALOGUE TRANSCEIVERS

IC-F3102D IC-F4102D



The IC-F3102D: A multitude of advantages because it's IDAS™

Advantage 1 Individual/group Call Analogue/Digital IC-F3102D

This is a simple and basic setting for those who use the radio mainly for individual and group call. Use the 16-position rotary channel knob to select the appropriate individual or group call. This setting also can be used with analogue 2-tone or 5-tone signalling.

Advantage 2

Digital/Analogue Mixed mode



IC-F3102D

IC-F3102D

The IC-F3102D series can receive both analogue and digital mode signals on a single channel and automatically selects the received mode to reply to the received call. It's a smart way to grow into digital radio - at your own pace, as your budget and comfort allow.

Advantage 3

Perfect Group Communication Tool, Large or Small



Mix the basic IC-F3102D series with the advanced IC-F3262D series for efficient group managed systems. Commands like radio stun, kill and revive as well as the caller ID of the IC-F3102D displayed on the administrator's radio provide efficient communication within the group.

Advantage 4

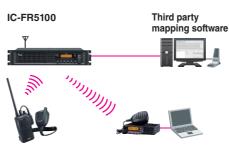
Multi-site System



When using the IC-F3102D series in dPMR Mode 2 multi-site system, the IC-F3102D can communicate with other dPMR radio users working with other repeater sites on the network.

Advantage 5

GPS Capability



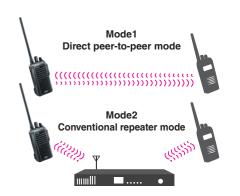
IC-F3102D with HM-171GP

IC-F5122D with PC and third party mapping software

When used with the optional GPS speakermicrophone, HM-171GP, the IC-F3102D series can transmit accurate position data to other advanced dPMR radios and/or connected PC for use with vehicle management applications.

Advantage 6

Interoperability



The IC-F3102D series complies with the dPMR standard (TS 102 658) for Mode 1 / Mode 2. This means the radio is capable of working with other manufactures' radio or on dPMR systems where the same features have been implemented, and allows users to have a choice of vendors and equipment in the future.

All advantages shown represent possible system configurations. Ask your Icom dealer to configure an IDAS system that works best for you. *Note: Private IP Network or VPN Tunnels through the Internet with static endpoints.

SPECIFICATIONS

	IC-F3102D	IC-F4102D
GENERAL		
Frequency coverage	136-174MHz	400-470MHz
Number of channels	16 cha	annels
Type of emission	16K0F3E, 14K0F3E, 8K50F3E, 4K00F1E/F1D	
Channel spacing	6.25/12.5/20/25kHz	
Power supply requirement	7.5V DC nominal	
Current drain (approx.)		
Tx High	1.3A	1.3A
Rx Max. audio	400mA (Internal SP)	400mA (Internal SP)
Standby	90mA (Digital mode)	100mA (Digital mode)
Antenna impedance	50Ω	
Operating temperature range	−25°C to +55	°C (Radio only)
Dimensions (W×H×D)	E9./111 Ev.26 En	nm (Mith BD 005)
(Projections not included)	58X 111.5X36.5f	nm (With BP-265)
Maight ()	150g (Radio only)	150g (Radio only)
Weight (approx.)	320g (With MB-124, BP-265 & Ant.)	310g (With MB-124, BP-265 & Ant.)
TRANSMITTER		
Output power (at 7.2V DC)	5W, 2W, 1W (Hi, L2, L1)	4W, 2W, 1W (Hi, L2, L1)
Max. frequency deviation	± 5.0kHz/±4.0kHz/±2.5	kHz (Wide/Middle/Narrow)
Frequency stability	±1.0ppm	
Spurious emissions	0.25μW (≤ 1GHz)	
•		(> 1GHz)
Residual modulations	56/54/50dB typ. (W/M/N)	56/55/51dB typ. (W/M/N)
Audio harmonic distortion		Hz 40% deviation)
FSK error		max.
Ext. microphone connector	3-conductor 2.5 (c	d) mm (¹/₁₀")/2.2kΩ)
RECEIVER		
Sensitivity (at 20dB SINAD)	−4dBµV typ. emf	
(at 5% BER)	−8dBµV typ. emf	
Adjacent channel selectivity	77/74/71dB typ. (W/M/N)	74/72/67dB typ. (W/M/N)
Spurious response rejection	91dB typ.	80dB typ.
Intermodulation rejection	67dB typ.	
Hum and noise (With CCITT filter)	53/51/48dB typ. (W/M/N)	53/51/47dB typ. (W/M/N)
Audio output power		
Internal SP (With 12Ω load)	800mW typ. (at 5% distortion)	
External SP (With 8Ω load)	400mW typ. (at 5% distortion)	
Ext. speaker connector	2-conductor 3.5 (d) mm (1/8")/8Ω	

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

Applicable U.S. Military Specifications & IP Rating

Standard	MIL 810F	
	Method	Procedure
Low Pressure	500.4	I, II
High Temperature	501.4	I, II
Low Temperature	502.4	I, II
Temperature Shock	503.4	I
Solar Radiation	505.4	I
Rain Blowing/Drip	506.4	I, III
Humidity	507.4	_
Salt Fog	509.4	_
Dust Blowing	510.4	I
Vibration	514.5	I
Shock	516.5	I, IV

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

Ingress Protection Standard	
Dust & Water	IP54 (Dust-protection and water resistant)

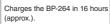
OPTIONS Some options may not be available in some countries. Please ask your dealer for details.



Battery packs	Type and capacity	Operating time* (Approx.)
BP-263	AA (LR6) batteries × 6	-
BP-264	Ni-MH, 7.2V 1400mAh	12 hours
BP-265	Li-lon, 7.4V 1900mAh (min.) 2000mAh (typ.)	17.5 hours

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







Charges the BP-264 in 2 hours (approx.).



BC-147SA for 120V AC. SV for 240V AC. BC-206SE for 230V AC. *2 BC-123SA for 120V AC. SE for 230V AC. SV for 240V AC.















STUBBY ANTENNAS

60-80 mm antennas. • FA-SC56VS: 150-162MHz • FA-SC57VS : 160–174MHz • FA-SC73US: 450-490MHz

CUT ANTENNAS

• FA-SC61VC : 136-174MHz • FA-SC61UC : 380-520MHz

HIGH GAIN ANTENNAS

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

STANDARD ANTENNAS

FA-SC25V: 136-150MHz • FA-SC55V: 150-174MHz

• FA-SC25U: 400-430MHz • FA-SC57U: 430-470MHz

www.icom.co.jp/world

VS-4I A OPC-2004 Either VS-4LA or OPC-2004 is required when using any of HS-94, HS-95 or HS-97.

PTT SWITCH CABLE and PLUG ADAPTER CABLE

CHARGER ADAPTERS • AD-120 for BP-264

• AD-121 for BP-265 Either AD-120 or AD-121 charger adapters are supplied with the BC-197, depending on BC-197's version.

Count on us!

BELT CLIP

• MB-124 Aligator type Same as supplied.

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