



VHF AND UHF TRANSCEIVERS

IC-F3001
VHF transceiver

IC-F4001
UHF transceiver

Affordable, high performance radio that offers abundant features

Simple operation for instant communication

The IC-F3001 series is so easy to use there's no special training required. The few knobs and buttons are generously sized for easy operation and are designed to provide non-slip, positive action – even while wearing gloves.

Easy to hear in noisy areas

The built-in bridge-tied load (BTL) amplifier offers powerful 800 mW* audio output from the large 45 mm speaker. The radio delivers loud and intelligible audio even in noisy environments.

* Typical with internal speaker

Longer operating time

A new high efficiency FET of the IC-F3001 series reduces consumption current and provides 20 hours* of operating time with the BP-265, 2000 mAh (typ.) battery pack. Even when used with the BP-264, the radio offers 14 hours* of operating time.

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

Weather resistant, dust protection, military rugged

While the radio is a compact unit with a height of only 111 mm (4.4 inch), the radio is tested to dust protection and water resistant equivalent to IP54 and 11 categories of MIL-STD-810 environmental test. In short, the IC-F3001 series is built rugged!

Internal VOX capability for hands-free operation

The radio has the internal VOX capability for hands-free operation. Optional compatible headset with plug adapter cable OPC-2004 can be used with the radio. Also, the VOX gain and VOX delay time are adjustable.

Selective calling, quiet stand-by and more

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

Scan features

The priority scan allows you to monitor one or two priority channels while scanning other non-priority channels. The Tx channel and talk back functions allow you to make a quick response while scanning.

Other features

- DTMF autodial
- BUIS PTT ID transmission
- Low battery alert
- PC programmable
- Talk around function
- Enhanced emergency
- Surveillance function
- CTCSS/DTCS encoder/decoder
- MDC PTT ID and emergency
- 2-step power save
- Time out timer
- Lone worker function
- 3-color LED



Dust Protection



Water Resistance



Limited functions.

SPECIFICATIONS

	IC-F3001	IC-F4001
GENERAL		
Frequency coverage	136–174 MHz	400–470 MHz 450–512 MHz
Number of channels	16 channels	
Type of emission	16K0F3E/11K0F3E	
Channel spacing	12.5/25 kHz, 15/30 kHz	12.5/25 kHz
PLL channel step	2.5/3.125 kHz	5/6.25 kHz
Power supply requirement	7.2 V DC nominal	
Current drain (approx.)		
Tx High	1.3 A	1.3 A
Rx Max. audio/Standby	330 mA (Internal SP)/75 mA	330 mA (Internal SP)/70 mA
Antenna impedance	50Ω	
Operating temperature range	–30°C to +55°C; –22°F to +140°F (Radio only)	
Dimensions (W × H × D)	58 × 111 × 31.0 mm; 2.3 × 4.4 × 1.2 in (With BP-264)	
(Projections not included)	58 × 111 × 35.5 mm; 2.3 × 4.4 × 1.4 in (With BP-265)	
Weight (approx.)	330 g; 11.6 oz (With BP-264) 270 g; 9.5 oz (With BP-265)	
TRANSMITTER		
Output power (at 7.2 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 kHz/±2.5 kHz (Wide/Narrow)	
Frequency stability	±2.5 ppm	
Spurious emissions	70 dB min.	
FM Hum and noise	46/40 dB typ. (Wide/Narrow)	
Audio harmonic distortion	1.0%/1.5% typ. (W/N, AF 1 kHz 40% deviation)	
Ext. microphone connector	3-conductor 2.5 (d) mm (1/10")/2.2 kΩ	
RECEIVER		
Sensitivity (at 12 dB SINAD)	0.25 μV typ.	
Adjacent channel selectivity	78/70 dB typ. (W/N)	73/65 dB typ. (W/N)
Spurious response rejection	70 dB min.	
Intermodulation rejection	75 dB typ.	74 dB typ.
Hum and noise (Without CCITT filter)	54/50 dB typ. (W/N)	52/47 dB typ. (W/N)
Audio output power		
Internal SP (With 12Ω load)	800 mW typ. (at 5% distortion)	
External SP (With 8Ω load)	400 mW typ. (at 5% distortion)	
External speaker connector	2-conductor 3.5 (d) mm (1/8")/8 Ω	

Measurements made in accordance with TIA-603.
All stated specifications are subject to change without notice or obligation.
* 25kHz bandwidth is no longer available for FCC Part 90 licensees for USA versions.
Ask your dealer if you need 25kHz bandwidth.

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, 7.2 V 1400 mAh	14 hours
BP-265	Li-Ion, 7.4 V 1850 mAh (min.) 2000 mAh (typ.)	20 hours

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

REGULAR CHARGER

For BP-264 (NI-MH battery)



Charges the BP-264 in 16 hours (approx.).

RAPID CHARGER

For BP-264 (NI-MH battery)



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

RAPID CHARGER

For BP-265 (LI-Ion battery)



Charges the BP-265 in 2.5 hours (approx.).

*1 BC-123SA/BC-147SA for the USA plug. SE for the European plug. SV for the Australian plug.

MULTI-CHARGER

For BP-264/BP-265



CIGARETTE LIGHTER CABLE & POWER SUPPLY CABLES



HEADSETS and PLUG ADAPTER CABLE



SPEAKER-MICROPHONES



CHARGER BRACKET



STANDARD ANTENNAS

- 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

CUT ANTENNAS

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

HIGH GAIN ANTENNAS

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

STUBBY ANTENNAS

- FA-SC56VS : 150–162 MHz
- FA-SC57VS : 160–174 MHz
- FA-SC73US : 450–490 MHz

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.

BELT CLIP

- MB-124 Alligator type
- Same as supplied.

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