

C-F3001 IC-F4001

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!

Dust Protection

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





IC-F3001·IC-F4001

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 \times H \times D)	58 × 111 × 31.0 mm; 2.3 × 4.4 × 1.2 in (With BP-264)			
(Projections not included)	$58 \times 111 \times 35.5$ mm; $2.3 \times 4.4 \times 1.4$ in (With BP-265)			
Weight (approx.)	330 g; 11.6 oz (With BP-264)			
vveignt (approx.)	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 k Ω			
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	E4/E0 dD + (M/A)	50/47 dD + (\A/\A)		
(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 ($\frac{1}{8}$ ")/8 Ω				
Measurements made in accordance with TIA-603.				

All stated specifications are subject to change without notice or obligation.

² 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	14 hours
	1400 mAh	14 110015
BP-265	Li-Ion, 7.4 V	
	1850 mAh (min.)	20 hours
	2000 mAh (typ.)	
	5 5 00 B	

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



(approx.).

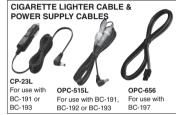


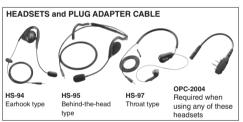
RAPID CHARGER



 $^{\star 1}$ BC-123SA/BC-147SA for the USA plug. SE for the European plug. SV for the Australian plug.

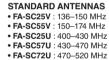












CUT ANTENNAS • FA-SC61VC : 136-174 MHz • FA-SC61UC : 380-520 MHz

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.

Count on us!

BELT CLIP

• MB-124 Aligator type Same as supplied.

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