



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 800mW\* audio output from the large 45mm 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, 2000mAh 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 111mm (4<sup>3</sup>/<sub>8</sub> 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
- CTCSS/DTCS encoder/decoder
- BISS PTT ID transmission
- MDC PTT ID and emergency
- Low battery alert
- 2-step power save
- PC programmable
- Time out timer
- Talk around function
- Lone worker function
- Enhanced emergency
- 3-color LED
- Surveillance function



Dust Protection



Water Resistance



Limited functions.

**SPECIFICATIONS**

	IC-F3001	IC-F4001
<b>GENERAL</b>		
Frequency coverage	136-174MHz	400-470MHz 450-512MHz
Number of channels	16 channels	
Type of emission	16K0F3E/11K0F3E	
Channel spacing	12.5/25kHz, 15/30kHz	12.5/25kHz
PLL channel step	2.5/3.125kHz	5/6.25kHz
Power supply requirement	7.2V DC nominal	
Current drain (approx.)		
Tx High	1.3A	1.3A
Rx Max. audio/Standby	330mA (Internal SP)/75mA	330mA (Internal SP)/70mA
Antenna impedance	50Ω	
Operating temperature range	-30°C to +55°C; -22°F to +140°F (Radio only)	
Dimensions (W×H×D)	58×111×31.0mm; 2.28×4.37×1.22 in (With BP-264)	
(Projections not included)	58×111×35.5mm; 2.28×4.37×1.4 in (With BP-265)	
Weight (approx.)	330g; 11.6oz (With BP-264) 270g; 9.5oz (With BP-265)	
<b>TRANSMITTER</b>		
Output power (at 7.2V DC)	5W, 2W, 1W (Hi, L2, L1)	4W, 2W, 1W (Hi, L2, L1)
Max. frequency deviation	± 5.0kHz/±2.5kHz (Wide/Narrow)	
Frequency stability	±2.5ppm	
Spurious emissions	70dB min.	
FM Hum and noise	46/40dB typ. (Wide/Narrow)	
Audio harmonic distortion	1.0%/1.5% typ. (W/N, AF 1kHz 40% deviation)	
Ext. microphone connector	3-conductor 2.5 (d) mm (1/10")/2.2kΩ	
<b>RECEIVER</b>		
Sensitivity (at 12dB SINAD)	0.25μV typ.	
Adjacent channel selectivity	78/70dB typ. (W/N)	73/65dB typ. (W/N)
Spurious response rejection	70dB min.	
Intermodulation rejection	75dB typ.	74dB typ.
Hum and noise (Without CCITT filter)	54/50dB typ. (W/N)	52/47dB typ. (W/N)
Audio output power		
Internal SP (With 12Ω load)	800mW typ. (at 5% distortion)	
External SP (With 8Ω load)	400mW typ. (at 5% distortion)	
External speaker connector	2-conductor 3.5 (d) mm (1/8")/8Ω	

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)

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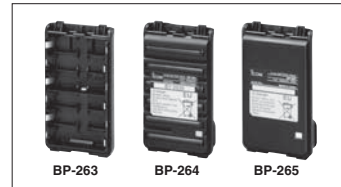
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**OPTIONS**

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 x 6	-
BP-264	Ni-MH, 7.2V 1400mAh	14 hours
BP-265	Li-Ion, 7.4V 1900mAh (min.) 2000mAh (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 120V AC. SE for 230V AC. SV for 240V AC.

**MULTI-CHARGER**

For BP-264/BP-265



**HEADSETS and PLUG ADAPTER CABLE**



HS-94 Earhook type  
HS-95 Behind-the-head type  
HS-97 Throat type  
OPC-2004 Required when using any of these headsets

**CIGARETTE LIGHTER CABLE & POWER SUPPLY CABLES**



CP-23L For use with BC-191 or BC-193  
OPC-515L For use with BC-191, BC-192 or BC-193  
OPC-656 For use with BC-197

**CHARGER BRACKET**



MB-130 For use with BC-191, BC-192, BC-193

**STANDARD ANTENNAS**

- FA-SC25V : 136-150MHz
- FA-SC55V : 150-174MHz
- FA-SC25U : 400-430MHz
- FA-SC57U : 430-470MHz
- FA-SC72U : 470-520MHz

**CUT ANTENNAS**

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

**HIGH GAIN ANTENNAS**

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

**STUBBY ANTENNAS**

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

**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.