



VHF AND UHF TRANSCEIVERS

**IC-F3002**

VHF transceiver

**IC-F4002**

UHF transceiver

## *Affordable, high performance radio that offers abundant features*

### Simple operation for instant communication

The IC-F3002 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-F3002 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, 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-F3002 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
- BIIS 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-F3002	IC-F4002
<b>GENERAL</b>		
Frequency coverage	136–174MHz	400–470MHz
Number of channels	16 channels	
Type of emission	16K0F3E/14K0F3E/11K0F3E	
Channel spacing	12.5/20/25kHz	
PLL channel step	2.5/3.125kHz	5/6.25kHz
Power supply requirement	7.2V DC	
Current drain (approx.)		
Tx High	1.3A	1.3A
Rx Max. audio	330mA (Internal SP)	330mA (Internal SP)
Standby	75mA	70mA
Antenna impedance	50Ω	
Operating temperature range	–25°C to +55°C (Radio only)	
Dimensions (W×H×D)	58×111×31.0mm (With BP-264)	
(Projections not included)	58×111×35.5mm (With BP-265)	
Weight (approx.)	330g (With BP-264)	
	270g (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/±4.0kHz/±2.5kHz (Wide/Middle/Narrow)	
Frequency stability	±2.5ppm	
Spurious emissions	0.25μW (≤ 1GHz) 1.0μW (> 1GHz)	
Residual modulations	58/56/53dB typ. (Wide/Middle/Narrow)	53/51/48dB typ. (Wide/Middle/Narrow)
Audio harmonic distortion (AF 1kHz 40% deviation)	1.0%/1.0%/1.5% typ. (Wide/Middle/Narrow)	
Ext. microphone connector	3-conductor 2.5 (d) mm (1/16")/2.2kΩ	
<b>RECEIVER</b>		
Sensitivity (at 20dB SINAD)	–4dBμV typ. emf	
Adjacent channel selectivity	78/78/70dB typ. (Wide/Middle/Narrow)	73/73/65dB typ. (Wide/Middle/Narrow)
Spurious response rejection	70dB min.	
Intermodulation rejection	65dB min.	
Hum and noise (With CCITT filter)	57/55/51dB typ. (Wide/Middle/Narrow)	52/50/47dB typ. (Wide/Middle/Narrow)
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.

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*
BP-263	AA (LR6) batteries × 6	–
BP-264	Rechargeable Ni-MH, 1400mAh	14 hours (Approx.)
BP-265	Rechargeable Li-ion, 1900mAh (min.) 2000mAh (typ.)	20 hours (Approx.)

\* 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.).

\* BC-123SA/BC-147SA for USA plug. BC-123SV/BC-147SV for Australia plug. BC-123SE/BC-206SE for Europe plug.

### MULTI-CHARGER For BP-264/BP-265



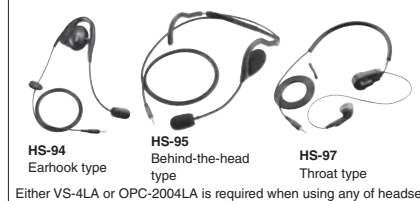
BC-197

### 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

### HEADSETS



HS-94 Earhook type  
HS-95 Behind-the-head type  
HS-97 Throat type  
Either VS-4LA or OPC-2004LA is required when using any of headset.

### PTT SWITCH CABLE and PLUG ADAPTER CABLE



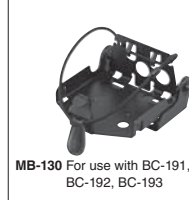
VS-4LA For manual PTT operation  
OPC-2004LA For VOX operation

### SPEAKER-MICROPHONES



HM-158LA HM-159LA

### CHARGER BRACKET



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

### BELT CLIP



MB-124 Alligator type Same as supplied.

### STANDARD ANTENNAS

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

### HIGH GAIN ANTENNAS

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

### 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.

### STUBBY ANTENNAS

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

### CUT ANTENNAS

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

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