

## 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 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-F3002 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, 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
- BIIS 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



Limited functions.

## SPECIFICATIONS

	IC-F3002	IC-F4002
<b>GENERAL</b>		
Frequency coverage	136–174 MHz	400–470 MHz
Number of channels	16 channels	
Type of emission	16K0F3E/14K0F3E/11K0F3E	
Channel spacing	12.5/20/25 kHz	
PLL channel step	2.5/3.125 kHz	5/6.25 kHz
Power supply requirement	7.2 V DC	
Current drain (approximate)		
Tx High	1.3 A	1.3 A
Rx Max. audio	330 mA (Internal SP)	330 mA (Internal SP)
Standby	75 mA	70 mA
Antenna impedance	50 Ω	
Operating temperature range	–25°C to +55°C (Radio only)	
Dimensions (W × H × D)	58 × 111 × 31.0 mm (With BP-264)	
(Projections not included)	58 × 111 × 35.5 mm (With BP-265)	
Weight (approx.)	330 g (With BP-264)	
	270 g (With BP-265)	
<b>TRANSMITTER</b>		
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/±4.0 kHz/±2.5 kHz (Wide/Middle/Narrow)	
Frequency stability	±2.5 ppm	
Spurious emissions	0.25 μW (≤ 1 GHz) 1.0 μW (> 1 GHz)	
Residual modulations	58/56/53 dB typ. (Wide/Middle/Narrow)	53/51/48 dB 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")/2.2 kΩ	
<b>RECEIVER</b>		
Sensitivity (at 20 dB SINAD)	–4 dBμV typ. emf	
Adjacent channel selectivity	78/78/70 dB typ. (Wide/Middle/Narrow)	73/73/65 dB typ. (Wide/Middle/Narrow)
Spurious response rejection	70 dB min.	
Intermodulation rejection	65 dB min.	
Hum and noise (With CCITT filter)	57/55/51 dB typ. (Wide/Middle/Narrow)	52/50/47 dB typ. (Wide/Middle/Narrow)
Audio output power		
Internal SP (With 12 Ω load)	800 mW typ. (at 5% distortion)	
External SP (With 8 Ω load)	400 mW typ. (at 5% distortion)	
Ext. speaker connector	2-conductor 3.5 (d) mm (1/8")/8 Ω	

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

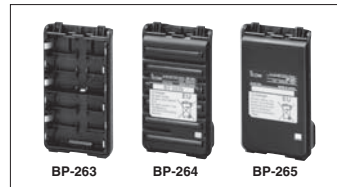
Standard	MIL 810F	
	Method	Procedure
Low Pressure	500.4	I, II
High Temperature	501.4	I, II
Low Temperature	502.4	I, II
Temperature Shock	503.4	I
Solar Radiation	505.4	I
Rain Blowing/Drip	506.4	I, III
Humidity	507.4	–
Salt Fog	509.4	–
Dust Blowing	510.4	I
Vibration	514.5	I
Shock	516.5	I, IV

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, 1400 mAh	14 hours (Approx.)
BP-265	Rechargeable Li-ion, 1850 mAh (min.) 2000 mAh (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)



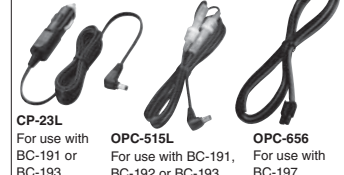
Charges the BP-265 in 2.5 hours (approx.).

\*1 BC-123SA/BC-147SA for the USA plug. BC-123SV/BC-147SV for the Australian plug. BC-123SE/BC-206SE for the European plug.

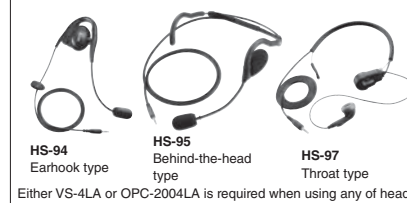
### MULTI-CHARGER For BP-264/BP-265



### CIGARETTE LIGHTER CABLE & POWER SUPPLY CABLES

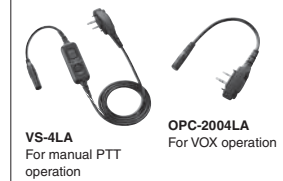


### HEADSETS



Either VS-4LA or OPC-2004LA is required when using any of headset.

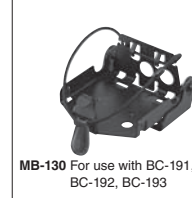
### PTT SWITCH CABLE and PLUG ADAPTER CABLE



### SPEAKER-MICROPHONES



### CHARGER BRACKET



### BELT CLIP



### STANDARD ANTENNAS

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

### HIGH GAIN ANTENNAS

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

### STUBBY ANTENNAS

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

### CUT ANTENNAS

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

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