

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 1500 mW* audio output. 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 up to 22 hours* of operating time with the BP-298, 2250 mAh (typ.) supplied battery pack.

*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 tests. 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

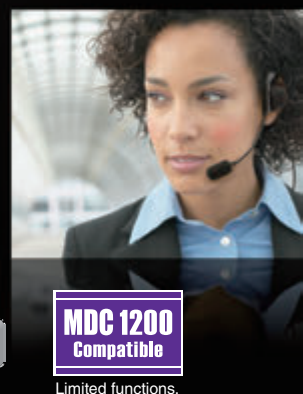
2-Tone and 5-Tone signaling gives you selective calling, quiet stand-by and other convenient functions with programming. The radio "stun" function disables a radio over the air and the "revive" function restores the stunned radio.

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
GENERAL		
Frequency coverage	136–174 MHz	400–470 MHz
Number of channels	16 channels	
Type of emission	11K0F3E/14K0F3E/16K0F3E	
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	1.6 A
Rx Max. audio	500 mA (Internal SP)	500 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) (Projections not included)	58 × 111 × 35.5 mm (With BP-298)	
Weight (approx.)	265 g (With BP-298)	
TRANSMITTER		
Output power (at 7.2 V DC)	5 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 (1/10")/2.2 kΩ	
RECEIVER		
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	1500 mW typ. (at 5% distortion)	
Internal SP (With 8 Ω load)	400 mW typ. (at 5% distortion)	
External SP (With 8 Ω load)		
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 810G	
	Method	Procedure
Low Pressure	500.5	I, II
High Temperature	501.5	I, II
Low Temperature	502.5	I, II
Temperature Shock	503.5	I-C
Solar Radiation	505.5	I
Rain Blowing/Drip	506.5	I, III
Humidity	507.5	II
Salt Fog	509.5	–
Dust Blowing	510.5	I
Vibration	514.6	I
Shock	516.6	I, IV

Also meets equivalent MIL-STD-810-C, -D, -E and -F.

Ingress Protection Standard	
Dust & Water	IP54 (Dust-protection and water resistant)


OPTIONAL ACCESSORIES

Some accessories may not be available in some countries. Please ask your dealer for details.

Battery pack type	Capacity	Operating time*	
BP-299	Li-ion 3050 mAh (min.) 3150 mAh (typ.)	VHF	31.4 hrs.
		UHF	29.4 hrs.
BP-298	Li-ion 2100 mAh (min.) 2250 mAh (typ.)	VHF	22.4 hrs.
		UHF	20.9 hrs.
BP-263	AA (LR6) × 6	—	—

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


RAPID CHARGER



BC-242 BC-240

Charges the BP-298 in 3 hours and the BP-299 in 4.6 hours (approx.).
The BC-242 is supplied with the BC-240.

MULTI-CHARGER



BC-157S BC-214N*


* The AD-139 charger adapters are supplied with the BC-214N, depending on the charger version.

SPEAKER-MICROPHONES



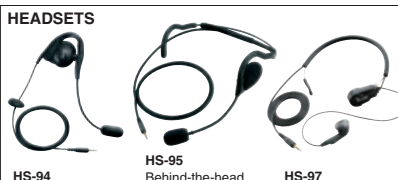
HM-158LA HM-159LA

CIGARETTE LIGHTER CABLE & POWER SUPPLY CABLES



CP-23L OPC-515L OPC-656
For use with BC-240 For use with BC-240 For use with BC-214N


HEADSETS



HS-94 HS-95 HS-97
Earhook type Behind-the-head type Throat type

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

PTT SWITCH CABLE and PLUG ADAPTER CABLE



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

STANDARD ANTENNAS

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

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

HIGH GAIN ANTENNAS

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

CHARGER BRACKET



MB-130
For use with BC-240

BELT CLIP



MB-124
Alligator type
Same as supplied.

Supplied accessories:

- BP-298, Battery pack
- BC-240, Desktop charger
- BC-242, AC adapter
- MB-124, Belt clip
- Antenna

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