

IC-F3011 (VHF transceiver)

IC-F4011 (UHF transceiver)



IP54

Rugged
MIL-STD 810



◀ IC-F3011(VHF)

Simple, Rugged & Reliable at an unbelievable price!

Simple operation for instant communication

With only 3 buttons, one volume knob and one 16-position channel knob, the IC-F3011 series does not require special training to use. The large knobs and positive action buttons are easy-to-operate, even while wearing gloves.

Modern design, rugged body

The IC-F3011 series is compact (120mm; 4^{23/32} inch height) and light weight (approximate 300g; 10.6oz with BP-232N and antenna). The aluminum die-cast chassis is the basis for this rugged construction, allowing long-life usage in various environments.

MIL-STD and IP54 rugged construction

The radio is tested to MIL-STD 810 specifications and to the IP54 rating for dust protection and water resistance. The IC-F3011 series is built to take harsh use and keep working.

Lithium-Ion battery standard

The IC-F3011 series comes with a high capacity 2000mAh (typ.) Li-Ion battery pack, BP-232N, as standard. The BP-232N offers up to 16 hours* of operation.

* VHF typical operation with Tx:Rx:Stand-by ratio =5:5:90

CTCSS/DTCS tone encoder/decoder

The IC-F3011 series has the built-in CTCSS and DTCS capabilities as standard to access a repeater or to set up your own talk group for quiet stand-by.

Rapid battery charger supplied

The rapid desktop charger, BC-160 and AC adapter BC-145 is supplied with the radio. It charges the BP-232N Li-Ion battery in 3 hours (approx.).

Automatic scanning and priority scan

The power on scan function automatically starts scanning when turning on the radio. The priority scan function scans all programmed channels in sequence, while monitoring the priority channel.

Other features

- Low battery alert with blinking LED and low battery beep
- Wide frequency coverage (136–174, 400–470 and 450–512MHz)
- Wide/narrow channel spacing (25, 12.5kHz) programmable
- PC programmable
- 3-color LED (Red, Green, Orange)
- Talk around function
- Time out timer
- Optional VOX headset
- 2-step power save

SPECIFICATIONS

	IC-F3011	IC-F4011
GENERAL		
Frequency coverage	136-174MHz	400-470MHz 450-512MHz
No. of channels	16 channels	
Type of emission	16K0F3E/11K0F3E	
Channel spacing	25/12.5 kHz 30/15 kHz	25/12.5 kHz
Power supply requirement	7.2V DC nominal	
Current drain		
Tx High	1.5A (at 5W)	1.6A (at 4W)
Rx Max. audio/Standby	300mA/70mA	300mA/70mA
Antenna impedance	50Ω	
Operating temperature range	-30°C to +60°C; -22°F to +140°F (Radio specifications)	
Dimensions (W×H×D)	53×120×38 mm; 2.09×4.72×1.5 in (Projections not included) (With BP-232N)	
Weight (approx.)	300g; 10.6oz (With BP-232N)	

	IC-F3011	IC-F4011
TRANSMITTER		
Output power (at 7.2V DC)	5W, 2W, 1W (Hi, L2, L1)	4W, 2W, 1W (Hi, L2, L1)
Max. Freq. deviation	±5.0/±2.5kHz (Wide/Narrow)	
Frequency stability	±2.5ppm	
Spurious emissions	80dBc typ.	
FM Hum and Noise	46/40dB typ. (Wide/Narrow)	
Ext. microphone connector	3-conductor 2.5 (d) mm (1/10")/2.2kΩ	
RECEIVER		
Sensitivity	0.25μV typ. (at 12dB SINAD)	
Adjacent channel selectivity	75/65dB typ. (Wide/Narrow)	
Spurious response	70dB min.	
Intermodulation rejection	74dB typ.	
Hum and noise	55/50dB typ. (W/N)	45/40dB typ. (W/N)
Audio output power	500mW typ. (at 5% dist, 8Ω load)	
Ext. speaker connector	2-conductor 3.5 (d) mm (1/8")/8Ω	

Supplied accessories:

- Battery pack, BP-232N
- Battery charger, BC-160
- Antenna (varies by versions)
- Belt clip, MB-94
- AC adapter, BC-145SA

Applicable U.S. Military Specifications & IP Rating

Standard	MIL 810 F	
	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	506.4	I, II
Humidity	507.4	-
Salt Fog	509.4	-
Dust	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 resistance)

Measurements made in accordance with TIA-603. All stated specifications are subject to change without notice or obligation.

OPTIONS



Battery packs	Type	Capacity	Operating time*
BP-230N	Li-Ion 7.4V	950mAh (min.) 980mAh (typ.)	9 hours
BP-232N	Li-Ion 7.4V	1900mAh (min.) 2000mAh (typ.)	18 hours
BP-232H	Li-Ion 7.4V	2250mAh (min.) 2300mAh (typ.)	21 hours
BP-240	AAA (LR03) batteries × 6		-

* Tx: Rx: standby=5:5:90. Power save on. (at 20°C, 68°F)

HEADSETS and PTT/VOX UNIT



- HS-94** : Earhook headset with flexible boom microphone.
- HS-95** : Behind-the-head headset with flexible boom microphone.
- HS-97** : Throat microphone fits around your neck and picks up speech vibration.
- VS-1L** : PTT/VOX unit. Required when using these headsets with the radio.

RAPID CHARGER

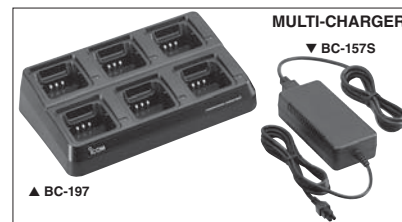


BC-160 DESKTOP CHARGER + BC-145SA AC ADAPTER
Charges the BP-232N in 3 hours (approx.).
BC-119N + AD-106 + BC-145SA is also available.

REGULAR CHARGER



BC-171 DESKTOP CHARGER + BC-147SA AC ADAPTER
Charges the BP-232N in 10 hours (approx.).



BC-197 MULTI-CHARGER + BC-157S AC ADAPTER
Rapidly charges up to 6 battery packs. Charging time: 3 hours (approx.) when BP-232N is attached.
BC-121N + AD-106 + BC-157S is also available.

SPEAKER-MICROPHONES



- HM-153L** : Durable earphone-microphone with plug screw connector.
- HM-158L** : Compact and durable body with plug screw connector.
- HM-159L** : Full size durable speaker microphone with noise canceller and plug screw connector.
- HM-166L** : Light weight and compact lapel-microphone with revolving clip.
- SP-13/SP-27** : Earphones are also available

BELT CLIPS

- **MB-93** : Swivel type belt clip.
- **MB-94** : Alligator type. Same as supplied.

LEATHER BELT HANGERS

- **MB-96N** : Swivel type belt hanger.
- **MB-96F** : Fixed type belt hanger.

POWER SUPPLY CABLES

- **CP-23L** : Cigarette lighter cable for use with BC-160 or BC-119N.
- **OPC-515L** : Power supply cable for use with BC-160 or BC-119N.
- **OPC-656** : Power supply cable for use with BC-121N.

STUBBY ANTENNAS

- **FA-SC65VS** : 150-162MHz
- **FA-SC67VS** : 160-174MHz
- **FA-SC73US** : 450-490MHz

60-80 mm antennas.

CUT ANTENNAS

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

HIGH GAIN ANTENNAS

- **FA-SC61VU** : 150-160MHz
- **FA-SC63V** : 155-165MHz

ANTENNAS

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

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