

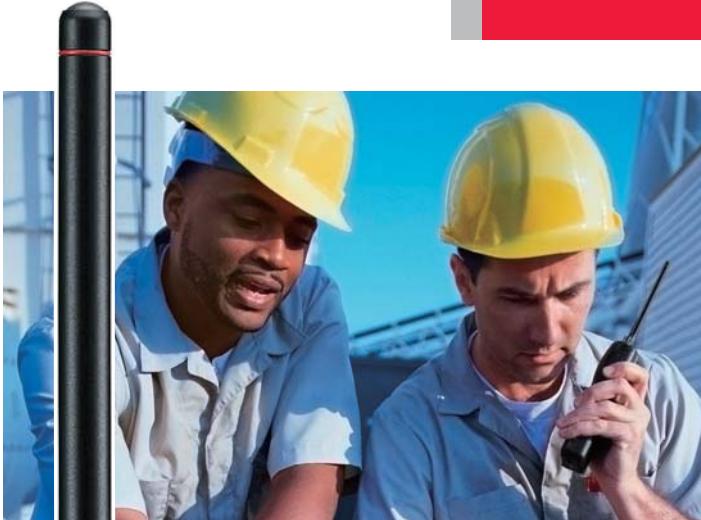


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VHF AND UHF TRANSCEIVERS

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

GENERAL

- Frequency coverage : IC-F3011 : 136–174MHz
IC-F4011 : 400–470, 450–512MHz
- Channel spacing : 12.5/25kHz, 15/30kHz
- Number of channels : 16 channels
- PLL channel step VHF : 2.5kHz, 3.125kHz
UHF : 5kHz, 6.25kHz
- Power supply requirement : 7.2V DC
- Current drain (approx.) : Tx High (VHF) : 1.5A
High (UHF) : 1.6A
Rx Max. audio : 300mA
Standby : 70mA
- Antenna impedance : 50Ω
- Operating temperature range : –30°C to +60°C ; –22°F to +140°F
- Dimensions (W×H×D) : 53×120×38 mm (proj. not included) ; 2³/₃₂×4²³/₃₂×1¹/₂ in
- Weight (with BP-232N) : 300g; 10.6oz

TRANSMITTER

- Output power (at 7.2V DC) : 5W (VHF), 4W (UHF)
- Max. frequency deviation : ±5.0kHz (at 25kHz) ±2.5kHz (at 12.5kHz)
- Frequency stability : ±2.5ppm
- Spurious emissions : 80dBc typ.
- Adjacent channel VHF : 80/70dB typ. (W/N)
power UHF : 75/68dB typ. (W/N)
- FM Hum and noise : 46/40dB typ. (W/N)
- External mic. connector : 3-conductor 2.5 (d) mm (1/16")/2.2kΩ

RECEIVER

- Sensitivity : 0.25μV typ. (at 12dB SINAD)
- Squelch sensitivity : 0.25μV typ. (at threshold)
- Adjacent channel selectivity : 75/65dB typ. (W/N)
- Spurious response rejection : 70dB min.
- Intermodulation rejection : 74dB typ.
- Hum and noise VHF : 50/45dB typ. (W/N)
UHF : 45/40dB typ. (W/N)

- Audio output power : 500mW (typical at 5% distortion with an 8Ω load) (at 7.2V DC)
- External 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	502.4-3	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)
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Measurements made in accordance with TIA-603.

All stated specifications are subject to change without notice or obligation.

OPTIONS



Battery packs	Type and capacity	Operating time* (VHF/UHF)
BP-230N	Li-Ion 7.4V 950/980mAh (min./typ.)	7.35 hours
BP-232N	Li-Ion 7.4V 1900/2000mAh (min./typ.)	16/15 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-121N MULTI-CHARGER + AD-106 CHARGER ADAPTER + BC-157 AC ADAPTER
Rapidly charges up to 6 battery packs (Six AD-106s are required). Charging time: 3 hours (approx.) when BP-232N is attached.

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** : Earphone is 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-SC57VS** : 160–174MHz
- **FA-SC73US** : 450–490MHz
60–80 mm antennas.

CUT ANTENNAS

- **FA-SC61VC** : 136–174MHz
- **FA-SC61UC** : 380–520MHz
Cut the antenna element to tune to a specific center frequency.

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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