

**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<sup>23/32</sup> 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
- Type of emission : 16K0F3E/11K0F3E
- 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/UHF) : 1.5A/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) ; 2<sup>3</sup>/<sub>32</sub>×4<sup>23</sup>/<sub>32</sub>×1<sup>1</sup>/<sub>2</sub> 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)
- Frequency stability : ±2.5ppm
- Spurious emissions : 80dBc typ.
- FM Hum and noise : 46/40dB typ. (W/N)
- External mic. connector : 3-conductor 2.5 (d) mm (1/10")/2.2kΩ

- Audio output power : 500mW (typical at 5% distortion with an 8Ω load)
- External speaker connector : 2-conductor 3.5 (d) mm (1/8")/8Ω

**Supplied accessories:**

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

**RECEIVER**

- Sensitivity : 0.25μV typ. (at 12dB SINAD)
- 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)

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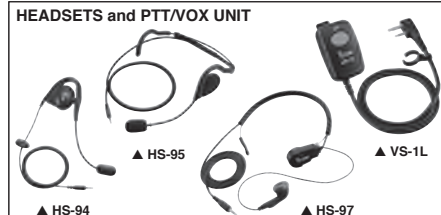
Measurements made in accordance with TIA-603. All stated specifications are subject to change without notice or obligation.

**OPTIONS**

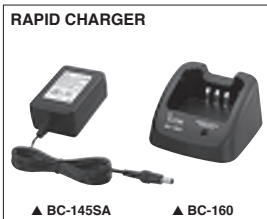


Battery packs	Type and capacity	Operating time* (VHF/UHF)
BP-230N	Li-Ion 7.4V 950/980mAh (min./typ.)	7.35 hours
BP-232N	Li-Ion 7.4V 1900/2000mAh (min./typ.)	16/15 hours
BP-240	AAA (LR03) batteries × 6	-

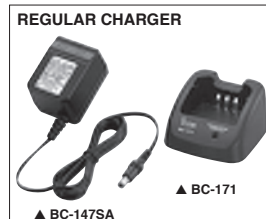
\* Tx: Rx: standby=5:5:90. Power save on. (at 20°C; 68°F)



- 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.



**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.



**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-157S AC ADAPTER**  
Rapidly charges up to 6 battery packs (Six AD-106s are required). Charging time: 3 hours (approx.) when BP-232N is attached.



- 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-SC56VS** : 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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**Icom Inc.**

1-1-32, Kami-minami, Hirano-ku, Osaka 547-0003, Japan Phone: +81 (06) 6793 5302 Fax: +81 (06) 6793 0013 www.icom.co.jp/world

**Count on us!**

Your local distributor/dealer:

**Icom America Inc.**

2380 116th Avenue NE, Bellevue, WA 98004, U.S.A.  
Phone: +1 (425) 454-8155  
Fax: +1 (425) 454-1509  
E-mail: sales@icomamerica.com  
URL : http://www.icomamerica.com

**Icom New Zealand**

146A Harris Road, East Tamaki, Auckland, New Zealand  
Phone: +64 (09) 274 4062  
Fax: +64 (09) 274 4708  
E-mail: inquiries@icom.co.nz  
URL : http://www.icom.co.nz

**Icom (UK) Ltd.**

Blacksloe House, Altira Park, Herne Bay, Kent, CT6 6GZ, U.K.  
Phone: +44 (0)1227 741741  
Fax: +44 (0)1227 741742  
E-mail: info@icomuk.co.uk  
URL : http://www.icomuk.co.uk

**Asia Icom Inc.**

6F No. 68, Sec. 1 Cheng-Teh Road, Taipei, Taiwan, R.O.C.  
Phone: +886 (02) 2559 1899  
Fax: +886 (02) 2559 1874  
E-mail: sales@asia-icom.com  
URL : http://www.asia-icom.com

**Icom Canada**

Glenwood Centre #150-6165 Highway 17, Delta, B.C., V4K 5B8, Canada  
Phone: +1 (604) 952-4266  
Fax: +1 (604) 952-0090  
E-mail: info@icomcanada.com  
URL : http://www.icomcanada.com

**Icom (Europe) GmbH**

Communication Equipment Auf der Krautweide 24, 65812 Bad Soden am Taunus, Germany  
Phone: +49 (6196) 76685-0  
Fax: +49 (6196) 76685-50  
E-mail: info@icom-europe.com  
URL : http://www.icomeurope.com

**Icom France s.a.s.**

Zac de la Plaine, 1 Rue Brindjonec des Moulains, BP 45804, 31505 Toulouse Cedex 5, France  
Phone: +33 (5) 61 36 03 03  
Fax: +33 (5) 61 36 03 00  
E-mail: icom@icom-france.com  
URL : http://www.icom-france.com

**Beijing Icom Ltd.**

10C07, Long Silver Mansion, No.88, Yong Ding Road, Haidian District, Beijing, 100039, China  
Phone: +86 (010) 5889 5391/5392/5393  
Fax: +86 (010) 5889 5395  
E-mail: bjicom@bjicom.com  
URL : http://www.bjicom.com

**Icom (Australia) Pty. Ltd.**

Unit 1 / 103 Garden Road, Clayton, VIC 3168 Australia  
Phone: +61 (03) 9549 7500  
Fax: +61 (03) 9549 7505  
E-mail: sales@icom.net.au  
URL : http://www.icom.net.au

**Icom Spain S.L.**

Ctra. Rubi, No. 88 "Edificio Can Castanyer" Bajos A 08174, Sant Cugat del Valles, Barcelona, Spain  
Phone: +34 (93) 590 26 70  
Fax: +34 (93) 589 04 46  
E-mail: icom@icomspain.com  
URL : http://www.icomspain.com

**Icom Polska**

81-850 Sopot, ul. 3 Maja 54, Poland  
Phone: +48 (58) 550 7135  
Fax: +48 (58) 551 0484  
E-mail: icompolska@icompolska.com.pl  
URL : http://www.icompolska.com.pl