ICOM

VHF AND UHF TRANSCEIVERS

IC-F15
(VHF transceiver, rotary type)

IC-F15S
(VHF transceiver, toggle type)

IC-F25
(UHF transceiver, rotary type)

IC-F25S
(UHF transceiver, toggle type)



Built to last, built to work!

- Tough and reliable construction
- Simple operation
- Wide range frequency coverage
- Lithium-ion battery standard
- Built-in CTCSS and DTCS
- Multiple 2-Tone, Multiple 5-Tone
- Optional voice scrambler, man down and DTMF decoder units
- Wide range of accessories available

Rugged MIL-STD 810

Icom Inc.

Built to last, built to work!



The IC-F15/S series shows Icom' sign. Simple operation for every tool for your daily business. Its sistant to shock and vibration. Th locks the battery pack to the rad age, Li-Ion battery pack, loud an and option unit connector comb performance, the IC-F15/S series tions.





Tough and reliable construction

The IC-F15/S series is built around an aluminum die-cast chassis and covered with tough polycarbonate casing. This radio is built to last. Its dual slide rail securely locks the battery to the radio. The battery terminal is covered with a non-corrosive rubber packing. The belt clip is clamped between the radio and the battery, making it nearly impossible to knock loose.

Simple operation

Having only 3 buttons, volume and channel knobs, the IC-F15/S series does not require special training to use. Positive button action for sure operation even when wearing gloves, allows you to get down to the business of communicating without fuss.

Wide frequency coverage

The IC-F15/S series covers a wide frequency range with one version (136–174, 400–470MHz). Wide, middle and narrow channel spacing* is programmable per channel.

(* Programmable 25/12.5kHz or 20/12.5kHz)

VHF TRANSCEIVERS

IC-F15
IC-F15S

UHF TRANSCEIVERS

IC-F25
IC-F25S





***s new direction in PMR radio de-
yone but a powerful and reliable
very durable construction is re-
e dual rail guide design securely
io. Wide range frequency cover-
d clear audio, built-in signalings
bined with Icom grade electrical
will easily exceed your expecta-***

Lithium-Ion battery standard

The IC-F15/S series comes with the BP-231 Li-Ion battery pack as standard. Li-Ion batteries have virtually no memory issues and allows you flexible charging. In addition, the optional BP-232 provides a high capacity 2000mAh for longer operating time.

Optional board

The IC-F15/S series has an expansion socket for adding an optional board. Voice scrambler, man down and DTMF decoder features are available, depending on the installed board.

Most popular signalings built-in

Use the built-in 2-Tone, 5-Tone, CTCSS and DTCS capabilities as standard to set up your own talk groups and quiet standby when others are talking.

Multiple 2-Tone, Multiple 5-Tone

Up to 10 2-Tone/8 5-Tone codes can be decoded on a channel. When a matched tone is received, the following items are programmable for each code.

- Beep sound
- Answer back
- Stun
- LED blink
- Scan

Other features

- LED low battery alert
- TOT function and lock out penalty timer
- 2 step power saver
- Normal and priority scan
- 500mW loud and clear audio
- Optional VOX headset for hands free operation
- PC programming capability
- Embedded ESN (Electronic serial number)

OPTIONS

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

BATTERY PACKS AND CASE



▲ BP-230 ▲ BP-231 ▲ BP-232 ▲ BP-240

Battery packs	Type and capacity	Operating time* (VHF/UHF)	Output power (VHF/UHF)
BP-230	Li-Ion 7.4V/ 800mAh	6/6 hours	5W/4W
BP-231	Li-Ion 7.4V/1150mAh	9/8 hours	5W/4W
BP-232	Li-Ion 7.4V/2000mAh	16/15 hours	5W/4W
BP-240	AAA (LR03) batteries × 6	–	1W

* Operating time is approximate time (at 20˚C). Tx: Rx: standby=5:5:90. Power save on.

RAPID CHARGER



▲ BC-145 ▲ BC-160 ▲ CP-17L ▲ OPC-515L

BC-160 DESKTOP CHARGER + **BC-145** AC ADAPTER
Charges the BP-231 in 2 hours (approx.).
BC-119N DESKTOP CHARGER + **AD-106** CHARGER ADAPTER + **BC-145** AC ADAPTER : Charges the BP-231 in 2 hours (approx.).
CP-17L CIGARETTE LIGHTER CABLE, **OPC-515L** DC POWER CABLE
For use with the BC-160 or BC-119N. (12–16V DC required).

BELT CLIPS



▲ MB-93 ▲ MB-94

MB-93 : Swivel type. A fast and easy way to remove the transceiver from your belt.
MB-94 : Alligator type. Same as supplied.

MULTI-CHARGER



▲ BC-121N+AD-106 (6 pcs.) ▲ OPC-656 ▲ BC-157

BC-121N MULTI-CHARGER + **AD-106** CHARGER ADAPTER + **BC-157** AC ADAPTER (Six AD-106s are required)
Charges up to 6 battery packs in 2 hours (approx.) when BP-231 is attached.
OPC-656 DC POWER CABLE : For use with the BC-121N. (12–20V DC required).

LEATHER BELT HANGERS



▲ MB-96N ▲ MB-96F

MB-96N: Swivel type belt hanger. Swivel joint of the MB-93 included.
MB-96F : Fixed type belt hanger. For use with MB-94.

HEADSETS and PTT/VOX UNIT



▲ HS-94 ▲ HS-95 ▲ HS-97 ▲ VS-1L

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 transceiver.

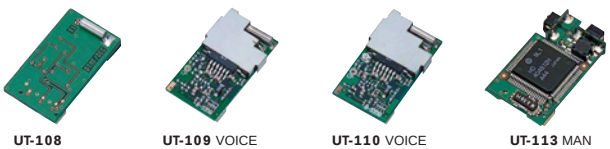
SPEAKER-MICROPHONES



▲ HM-158L ▲ HM-153L

HM-158L : Compact and durable body with screw-type connector.
HM-153L : Durable earphone-microphone with revolving clip.

INTERNAL UNITS



UT-108 DTMF DECODER
UT-109 VOICE SCRAMBLER UNIT
UT-110 VOICE SCRAMBLER UNIT
UT-113 MAN DOWN UNIT

UT-108 : Provides DTMF, Selective call and ANI capabilities.
UT-109 : Up to 32 scrambling codes are available. Version 01 is required.
UT-110 : Up to 1020 scrambling codes are available. Version 01 is required.
UT-113 : Automatically sends an emergency signal when the transceiver is left in a horizontal position for a preset time.

SP-13 : EARPHONE
Provides clear audio in noisy environments.

STUBBY ANTENNAS

- **FA-SC56VS** : 146–162MHz
- **FA-SC57VS** : 160–174MHz
- **FA-SC73US** : 450–490MHz

ANTENNAS

- **FA-SC25V** : 136–150MHz
- **FA-SC55V** : 146–174MHz
- **FA-SC25U** : 400–430MHz
- **FA-SC57U** : 430–470MHz

SPECIFICATIONS

GENERAL

- Frequency range :
  - IC-F15/IC-F15S 136–174MHz
  - IC-F25/IC-F25S 400–470MHz
- Number of channels : 16 (IC-F15, IC-F25)
  4 (Max., IC-F15S, IC-F25S)
- Channel spacing : 12.5kHz/20kHz/25kHz
- PLL channel step : 2.5kHz, 3.125kHz (VHF)
  5kHz, 6.25kHz (UHF)
- Power supply requirement : 7.2V DC
- Current drain (at 7.2V DC; approx.):
  - Transmit VHF (5W) 1.5A
  - UHF (4W) 1.6A
  - Receive stand-by 70mA
  - rated output 300mA
- Antenna impedance : 50Ω
- Usable temperature range : –25˚C to +55˚C
- Dimensions (with BP-231) : 53 (W) ×120 (H) ×38 (D) mm
  (projections are not included)
- Weight (approx. with BP-231) : 260g

TRANSMITTER

- Output power : 5W (VHF), 4W (UHF)
- Max. frequency deviation : ±5kHz (Wide)
  ±4kHz (Middle)
  ±2.5kHz (Narrow)
- Frequency error : ±2.5ppm
- Spurious emissions : 0.25µW (below 1GHz)
  1.0µW (above 1GHz)
- Adjacent channel power :
  - VHF 80/80/70dB typ. (Wide/middle/narrow)
  - UHF 75/73/68dB typ. (Wide/middle/narrow)
- Residual modulation (With CCITT filter) : 55dB typ. (Wide)
  53dB typ. (Middle)
  50dB typ. (Narrow)
- Audio harmonic distortion : 3% typ. (AF 1kHz, 40% deviation)
- Modulation limiting : 60–100% of max. deviation
- External microphone connector :
  3-conductor 2.5 (d) mm /2.2kΩ

Measurements made in accordance with EN 300-086.
All stated specifications are subject to change without notice or obligation.

RECEIVER

- Sensitivity : –4dBµV typ. (emf, at 20dB SINAD)
- Squelch sensitivity : –4dBµV typ. (emf, at threshold)
- Adjacent channel selectivity :
  - VHF 75dB typ. (Wide, middle)
    65dB typ. (Narrow)
  - UHF 75/73/65dB typ. (Wide, middle, narrow)
- Spurious response : 70dB
- Intermodulation : 67dB typ.
- Hum and noise ratio (with CCITT FILTER) : 55dB typ. (Wide)
  53dB typ. (Middle)
  50dB typ. (Narrow)
- Audio output power : 500mW typ.
  (at 5% distortion with an 8Ω load)
- External speaker connector : 2-conductor 3.5 (d) mm/8Ω

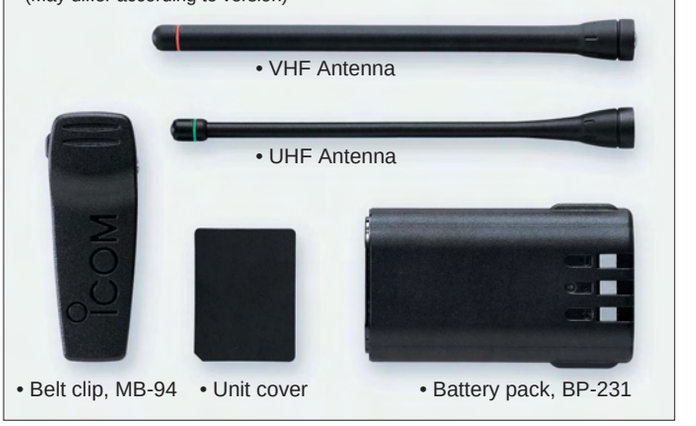
Applicable U.S. Military Specifications

Icom makes rugged products that have been tested to and passed the following MIL-STD requirements and strict environmental standards.

Standard	MIL 810C		MIL 810D		MIL 810E		MIL 810F	
	Method	Proc.	Method	Proc.	Method	Proc.	Method	Proc.
Low Pressure	500.1	I	500.2	I, II	500.3	I, II	500.4	I, II
High Temp.	501.1	I	501.2	I, II	501.3	I, II	501.4	I, II
Low Temp.	502.1	I	502.2	I, II	502.3	I, II	502.4-3	I, II
Temp. Shock	503.1	I	503.2	I	503.3	I	503.4	I
Solar Radiation	505.1	I	505.2	I	505.3	I	505.4	I
Rain Blowing/Drip	506.1	I, II	506.2	I, II	506.3	I, II	506.4	I, III
Humidity	507.1	I, II	507.2	II, III	507.3	II, III	507.4	–
Salt Fog	509.1	I	509.2	I	509.3	I	509.4	–
Dust Blowing	510.1	I	510.2	I	510.3	I	510.4	I
Vibration	514.2	VIII, X	514.3	I	514.4	I	514.5	I
Shock	516.2	I, II, V	516.3	I, IV	516.4	I, IV	516.5	I, IV

SUPPLIED ACCESSORIES

(May differ according to version)



Icom Inc. 1-1-32, Kamiminami, Hirano-ku, Osaka 547-0003, Japan Phone: +81 (06) 6793 5302 Fax: +81 (06) 6793 0013 **URL: http://www.icom.co.jp/world/index.html**

Count on us!

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 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 (Australia) Pty. Ltd.
A.B.N. 88 006 092 575
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 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 (Europe) GmbH
Communication Equipment
Himmelgeister Str. 100,
D-40225 Düsseldorf, Germany
Phone : +49 (0211) 346047
Fax : +49 (0211) 333639
E-mail : info@icomeurope.com
URL : http://www.icomeurope.com

Icom Spain S.L.
Ctra. Rubi, No. 88 "Edificio Can Castanyer"
08190, 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 (UK) Ltd.
Unit 9, Sea St., Herne Bay,
Kent, CT6 8LD, U.K.
Phone : +44 (01227) 741741
Fax : +44 (01227) 741742
E-mail : info@icomuk.co.uk
URL : http://www.icomuk.co.uk

Icom France S.a
Zac de la Plaine, 1,
Rue Brindejonc des Moulinais BP 5804,
31505 Toulouse Cedex, 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

Icom Polska
Sopot, 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

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

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

JP98/14190QA TW03/00288EM

Icom Inc. (Japan), is an ISO 9001 and ISO 14001 certification acquired company.

Your local distributor/dealer:

04ES012C © 2004–2005 Icom Inc. Printed in Japan

SyncComms