



## 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 DTCSS**
- **Multiple 2-Tone, Multiple 5-Tone**
- **Optional voice scrambler, man down and DTMF decoder units**
- **Wide range of accessories available**



Icom Inc.

# Built to last, built to work!



*The IC-F15/S series shows Icom's rugged design. Simple operation for every user. A reliable tool for your daily business. Its resistant to shock and vibration. The IC-F15/S locks the battery pack to the radio. The large, Li-Ion battery pack, loud and clear speaker and option unit connector complete the performance, the IC-F15/S series transceivers.*



## **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-  
vices but a powerful and reliable  
very durable construction is re-  
ne dual rail guide design securely  
lio. Wide range frequency cover-  
d clear audio, built-in signalings  
combined with Icom grade electrical  
will easily exceed your expecta-**

### Lithium-Ion battery standard

The IC-F15/S series comes with a high capacity 2000mAh Li-Ion battery pack, BP-232N, as standard. Li-Ion batteries have virtually no memory issues and allows you flexible charging.

### 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
- PC programming capability
- Embedded ESN (Electronic serial number)
- PTT ID function (Transmit only) automatically sends your own ID number when the PTT button is pushed/released

## OPTIONS

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

### BATTERY PACKS AND CASE



Battery packs	Type and capacity	Operating time* (VHF/UHF)	Output power (VHF/UHF)
BP-230N	Li-Ion 7.4V/ 980mAh	7.35 hours	5W/4W
BP-232N	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.

### REGULAR CHARGER



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

### RAPID CHARGER



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

### POWER SUPPLY CABLES



**CP-17L CIGARETTE LIGHTER CABLE, OPC-515L DC POWER CABLE**  
For use with the BC-160 or BC-119N. (12–16V DC required).

### MULTI-CHARGER



**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: approx. 3 hours when BP-232N is attached.  
**OPC-656 DC POWER CABLE** : For use with the BC-121N. (12–20V DC required).

### BELT CLIPS AND LEATHER BELT HANGERS



**MB-93** : Swivel type belt clip.  
**MB-94** : Alligator type. Same as supplied.  
**MB-96N** : Swivel type belt hanger.  
**MB-96F** : Fixed type belt hanger.

### HEADSETS and PTT/VOX UNIT



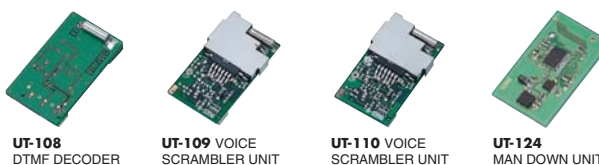
**HS-94** : Earhook headset with flexible boom microphone.  
**HS-95** : Behind-the-head headset with flexible boom microphone.  
**HS-97** : Throat microphone fits around your neck and picks up speech vibration.  
**VS-1L** : PTT/VOX unit. Required when using these headsets with the radio.

### SPEAKER-MICROPHONES



**HM-153L** : Durable earphone-microphone with revolving clip.  
**HM-158L** : Compact and durable body with screw-type connector.  
**HM-159L** : Full size durable speaker microphone.  
**SP-13** : EARPHONE. Provides clear audio in noisy environments.

### INTERNAL UNITS



**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-124** : Automatically sends an emergency signal when the transceiver is left in a horizontal position for a preset time.

### STUBBY ANTENNAS

- FA-SC56VS : 150–162MHz
- FA-SC57VS : 160–174MHz
- FA-SC73US : 450–490MHz

### 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

## 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-232N) : 53 (W) × 120 (H) × 42.4 (D) mm  
(projections are not included)
- Weight : 296g (approx. with BP-232N)

## 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)
- 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 : 55dB typ. (Wide)  
(with CCITT FILTER) 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)



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