



VHF AND UHF TRANSCEIVERS

IC-F14

(VHF transceiver, rotary type)

IC-F14S

(VHF transceiver, toggle type)

IC-F24

(UHF transceiver, rotary type)

IC-F24S

(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



Icom Inc.

Built to last, built to work!



The IC-F14/S series shows Icom's sign. Simple operation for everyone for your daily business. Its very durable construction resists shock and vibration. The dual rail battery pack locks to the radio. Wide range of frequencies, dual battery pack, loud and clear audio, and a standard unit connector combined with Icom's reliability. The IC-F14/S series will easily exceed your expectations.



Tough and reliable construction

The IC-F14/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-F14/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-F14/S series covers a wide frequency range with one version (136–174, 400–470, 450–512 (520) MHz). Wide and narrow channel spacing (25, 12.5kHz) is programmable per channel.

VHF TRANSCEIVERS

IC-F14

IC-F14S

UHF TRANSCEIVERS

IC-F24

IC-F24S



**'s new direction in LMR radio de-
ne but a powerful and reliable tool
urable construction is resistant to
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lio, built-in signalings and option
om grade electrical performance,
eed your expectations.**

Lithium-Ion battery standard

The IC-F14/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-F14/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 stand-by 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.

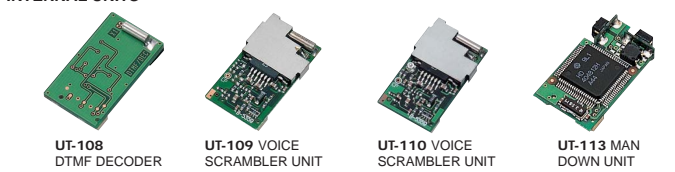
SPEAKER-MICROPHONE



▲ HM-158L

HM-158L : Compact and durable body with screw-type connector.

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
- **FA-SC72U** : 470–520MHz

SPECIFICATIONS

GENERAL

- Frequency range :
 - IC-F14/IC-F14S 136–174MHz (U.S.A. and General)
 - IC-F24/IC-F24S 400–470MHz (U.S.A. and General)
 - 450–512MHz (U.S.A.)
 - 450–520MHz (General)
- Number of channels : 16 (IC-F14, IC-F24)
4 (Max., IC-F14S, IC-F24S)
- Channel spacing : 12.5kHz/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 High 1.5A
 - Low (1W) 0.7A
 - Receive stand-by 70mA
 - rated output 300mA
- Antenna impedance : 50Ω
- Usable temperature range : –30°C to +60°C; –22°F to +140°F
- Dimensions (with BP-231) : 53 (W) ×120 (H) ×38 (D) mm;
(projections are not included) 2³/₃₂ (W) ×4²³/₃₂ (H) ×1¹/₂ (D) in
- Weight (approx. with BP-231) : 260g; 9.2oz

TRANSMITTER

- Output power : 5W (VHF), 4W (UHF)
- Max. frequency deviation : ±5.0/2.5kHz (Wide/narrow)
- Frequency error : ±2.5ppm
- Spurious emissions : 80dB typ.
- Adjacent channel power :
 - VHF 80/70dB typ. (Wide/narrow)
 - UHF 75/68dB typ. (Wide/narrow)
- FM Hum and Noise : 46dB typ. (Wide)
40dB 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 (1/10")/2.2kΩ

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

RECEIVER

- Sensitivity : 0.25μV typ. (at 12dB SINAD)
- Squelch sensitivity : 0.25μV typ. (at threshold)
- Adjacent channel selectivity : 75dB typ. (Wide)
65dB typ. (Narrow)
- Spurious response : 70dB
- Intermodulation : 74dB typ.
- Hum and noise ratio : 50dB typ. (Wide)
45dB typ. (Narrow)
- Audio output power : 500mW typ.
(at 5% distortion with an 8Ω load)
- External speaker connector: 2-conductor 3.5 (d) mm (1/8")/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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