ICOM

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)

Rugged MIL-STD 810

Basic & Rugged

- 16ch (F14/F24) Max. 4ch (F14S/F24S)
- 2-Tone, 5-Tone CTCSS, DTCS
- MDC PTT ID & MDC emergency call
- 15-16 hrs. operating time with BP-232N
- Optional voice scrambler

Built to last, built to work!

The IC-F14/S series shows Icom' sign. Simple operation for everyo for your daily business. Its very d shock and vibration. The dual rai battery pack to the radio. Wide r battery pack, loud and clear aud unit connector combined with Ic the IC-F14/S series will easily exc

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
l guide design securely locks the
ange frequency coverage, Li-Ion
io, built-in signalings and option
om grade electrical performance,
eed your expectations.***

Lithium-Ion battery standard

The IC-F14/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-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

- MDC PTT ID and MDC emergency call functions are available (Transmit only)
- 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

OPTIONS

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

BATTERY PACKS AND CASE

▲ BP-230N ▲ BP-232N ▲ BP-240

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-147 ▲ BC-171

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

RAPID CHARGER

▲ BC-145 ▲ BC-160

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 ▲ OPC-515L

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+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 3 hours (approx.) 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 ▲ MB-96F

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-95 ▲ VS-1L ▲ HS-94 ▲ HS-97

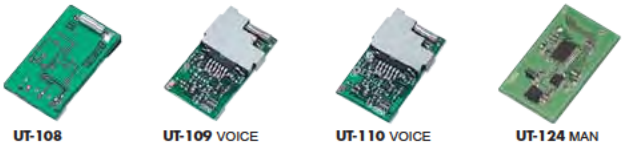
HS-94 : Earhook headset with flexible boom microphone.
HS-95 : Behind-the-head headset with flexible boom microphone.
HS-97 : Throat microphone fits around your neck and picks up speech vibration.
VS-1L : PTT/VOX unit. Required when using these headsets with the transceiver.

SPEAKER-MICROPHONES

◀ HM-158L ▲ HM-153L HM-166L ▲ ▲ HM-159L

HM-153L : Durable earphone-microphone with revolving clip.
HM-158L : Compact and durable body with plug screw connector.
HM-159L : Full size durable speaker microphone.
HM-166L : Light-weight earphone microphone with revolving clip.
SP-13 : EARPHONE Provides clear audio in noisy environments.

INTERNAL UNITS



UT-108 DTMF DECODER
UT-109 VOICE SCRAMBLER UNIT
UT-110 VOICE SCRAMBLER UNIT
UT-124 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-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
- 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-232N) : 53 (W) ×120 (H) ×42.4 (D) mm;
  (projections are not included) $2\frac{3}{32}$ (W) ×$4\frac{23}{32}$ (H)×$1\frac{21}{32}$ (D) in
- Weight : 296g; 10.4oz (approx. with BP-232N)

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
- Ext. microphone connector : 3-conductor 2.5 (d) mm ($\frac{1}{10}$″)/2.2kΩ

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

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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 ($\frac{1}{8}$″)/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 810F	
	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 Blowing/Drip	506.4	I, III
Humidity	507.4	–
Salt Fog	509.4	–
Dust Blowing	510.4	I
Vibration	514.5	I
Shock	516.5	I, IV

Also meets equivalent M L-STD-810-C, -D and -E.

SUPPLIED ACCESSORIES

(May differ according to version)

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