



VHF AND UHF TRANSCEIVERS

IC-F34GT
(VHF transceiver with 10-keypad)

IC-F44GT
(UHF transceiver with 10-keypad)

IC-F34GS
(VHF transceiver without 10-keypad)

IC-F44GS
(UHF transceiver without 10-keypad)



Advanced Model



- 256 ch / 16 zones
- 2-Tone, 5-Tone CTCSS, DTCS
- BIIS 1200 compatible
- 15-16 hrs. operating time with BP-232N
- 8-character LCD display
- Optional voice scrambler

Advanced functions packed in a tough, lightweight body



The IC-F34G series is suitable for a variety of needs — large or small, mobile or stationary. Whether you are on a large-scale construction site, warehouse, hospital or hotel, or operating a small on the go messenger service, this radio provides the built-in flexibility to handle all your communication needs. Offering advanced features such as wide frequency range, multiple signaling and loud audio, the IC-F34G series is a rugged and reliable 2-way communications tool. This is the new direction in PMR communications.

Lithium-Ion battery pack

Supplied 2000mAh Li-Ion battery pack, BP-232N, provides 15/16 hours* of operating time. Li-Ion technology has virtually no memory charging issues. A rugged dual-rail guide securely locks the battery to the radio. Optional battery case BP-240 provides a convenient back up and great reassurance in an emergency.

* UHF/VHF, typical operation Tx:Rx: Stand-by=5:5:90, power save on.

Wide frequency range and large channel capacity

The IC-F34G series covers a wide frequency range in one version (136–174, 400–470MHz). Wide, middle and narrow channel bandwidth* is programmable to each channel. The 256 memory channel capacity with 16 memory zones allows you to divide and store a variety of flexible channel groupings. Easy memory channel selection is possible with a simple rotation of the rotary channel knob.

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

Small and lightweight body

The IC-F34G series sheds size and weight compared with previous models, weighing just 340g (including BP-232N) and measuring only 53(W)×120(H)×36.9(D) mm. The aluminum die-cast chassis and polycarbonate casing combination has been tested to MIL standard specifications.

Built-in multi-format tone signaling

Use the built-in CTCSS, DTCS, 2-Tone, 5-Tone or BIIS capability to set up your own talk groups and quiet stand-by when others are talking. You can also set up selective calls to individuals or control a repeater.

VHF TRANSCEIVERS

IC-F34GT

With 10-keypad

IC-F34GS

Without 10-keypad

UHF TRANSCEIVERS

IC-F44GT

With 10-keypad

IC-F44GS

Without 10-keypad



Multiple 5-Tone, Multiple 2-Tone

Encode or decode up to 8 5-Tone, 10 2-Tone codes on a single memory channel. This is perfect for professionals who require multiple district paging on one channel. When a matched tone is received, the following items are programmable for each code.

- Bell icon
- Answer back
- Stun
- Beep sound
- Auto transmit
- Scan
- 8-character text

8 programmable buttons

The [P0]–[P3], [▲], [▼], [Red] and [Monitor] buttons are programmable to meet specific needs. The [Red] button on the top panel can be assigned as an emergency trigger.

Alphanumeric display

The 8-character alphanumeric display shows channel, zone, tone code and scanning list name on the display. A separate row of operational icons indicate battery, signal strength, RX/TX and other radio conditions.

Audio compander

The built-in audio compander reduces noise components and provides clear reception even in narrow band use.

Built-in voice scrambler

The IC-F34G series includes a built-in inversion type voice scrambler in all models. When a more secure system is required, the optional voice scrambler unit UT-109 or UT-110 is available.

BIIS 1200 compatible

The following selective calling and data features are available with the built-in BIIS system.

- 32 abbreviated call memories
- 7 group IDs
- 24-status Messages
- Send 8-character SDM (Short Data Message)
- Receive up to 95 characters of free text

Other features

- 8 DTMF autodial memories
- 2 step reduced power setting
- Power saver
- Power on password
- Busy, repeater lockout functions
- Optional man down unit, UT-124
- Flash ROM CPU
- Optional headset and speaker microphone available and more...

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	7.35/7.35 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
Rapidly charges up to 6 battery packs (Six AD-106s are required). Charges the BP-232N in 3 hours (approx.).

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-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 radio.

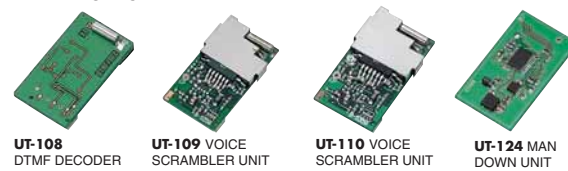
SPEAKER-MICROPHONES



▲ HM-158L ▲ HM-159L ▲ HM-166L ▲ HM-159L

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

INTERNAL UNITS



▲ UT-108 ▲ UT-109 ▲ UT-110 ▲ UT-124

UT-108 : Provides DTMF, Selective call and ANI capabilities.
UT-109 : Up to 32 scrambling codes are available. Version 02 is required.
UT-110 : Up to 1020 scrambling codes are available. Version 02 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-F34GT/GS 136–174MHz
 - IC-F44GT/GS 400–470MHz
- Number of channels : 256 channels/16 zones
- Channel spacing : 12.5kHz/20kHz/25kHz
- PLL channel step : 2.5kHz, 3.125kHz (VHF)
5kHz, 6.25kHz (UHF)
- Antenna impedance : 50Ω
- Usable temperature range : -25°C to +55°C
- Power supply requirement : 7.2V DC nominal
- Current drain (at 7.2V DC; approx.):
 - Transmit at 5W/4W 1.5A/1.7A (VHF/UHF)
 - at 1W 0.7A/0.8A (VHF/UHF)
 - Receive stand-by 85mA
 - rated output 300mA
- Dimensions (with BP-232N) : 53 (W) × 120 (H) × 36.9 (D) mm
(projections are not included)
- Weight : 340g (with BP-232N and ANT)

TRANSMITTER

- Output power : 5W (VHF), 4W (UHF)
- Max. frequency deviation : ±5.0/4.0/2.5kHz (Wide/middle/narrow)
- Frequency error : ±1.5kHz
- Spurious emissions : 0.25μW (below 1GHz)
1.0μW (above 1GHz)
- Adjacent channel power : 70dB (Wide, middle)
60dB (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/2.2kΩ

Measurements made in accordance with EN 300-086.

All stated specifications are subject to change without notice or obligation.

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RECEIVER

- Intermediate frequency : 1st 46.35MHz
2nd 450kHz
- Sensitivity : -4dBμV typ. (emf, at 20dB SINAD)
- Squelch sensitivity : -4dBμV typ. (emf, at threshold)
- Adjacent channel selectivity :
 - VHF 75/75/65dB typ. (Wide/middle/narrow)
 - UHF 73/73/63dB typ. (Wide/middle/narrow)
- Spurious response : 70dB
- Intermodulation : 67dB typ.
- Hum and noise ratio (with CCITT filter) :
 - VHF 55/53/50dB typ. (Wide/middle/narrow)
 - UHF 45/44/40dB typ. (Wide/middle/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 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	506.4	I, III
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.

SUPPLIED ACCESSORIES

(May differ according to version)



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