



VHF AND UHF TRANSCEIVERS

IC-F33GT

(VHF transceiver with 10-keypad)

IC-F43GT

(UHF transceiver with 10-keypad)

IC-F33GS

(VHF transceiver without 10-keypad)

IC-F43GS

(UHF transceiver without 10-keypad)



Advanced Model



256 ch /
16 zones

2-Tone, 5-Tone
CTCSS, DTCSS

MDC 1200
compatible

15-16 hrs. operating
time with BP-232N

8-character
LCD display

Optional voice
scrambler

A new direction in Land Mobile radios



The IC-F33G series is suitable for a variety of needs — large or small, mobile or stationary. Whether you are a large-scale construction site, warehouse, hospital or hotel, or a small on the go messenger service, this radio provides the built-in flexibility to handle your communication needs.

Offering advanced features such as wide frequency range, multiple signaling and loud audio, the IC-F33G series is a rugged and reliable 2-way communications tool. This is the new direction in LMR communications.

Lithium-Ion battery pack

Supplied 2000mAh (typ.) 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-F33G series covers a wide frequency range in one version (VHF 136–174 MHz, UHF 400–470MHz or 450–512 (520) MHz). 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 with a simple rotation of the rotary channel knob.

Small and lightweight body

The IC-F33G 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 have been tested to MIL standard specifications.

* 12.0oz ** $2\frac{3}{32}(W) \times 4\frac{23}{32}(H) \times 1\frac{7}{16}(D)$ in

VHF TRANSCEIVERS

IC-F33GT

With 10-keypad

IC-F33GS

Without 10-keypad

UHF TRANSCEIVERS

IC-F43GT

With 10-keypad

IC-F43GS

Without 10-keypad

Built-in multi-format tone signaling

Use the built-in CTCSS, DTCS, 2-Tone, 5-Tone or MDC 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.



Multiple 2-Tone, Multiple 5-Tone

Encode or decode up to 10 2-Tone, 8 5-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

MDC 1200 compatible

The following selective calling and ANI features are available with the built-in MDC signaling.

- PTT ID
- Radio check
- Caller ID
- Selective call
- Emergency, emergency mic monitoring
- Emergency man down (with UT-124)
- Radio stun/revive
- 500 Aliases
- Status/message
- Call alert

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 channel names 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-F33G 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.

Other features

- 8 DTMF autodial memories
- 2 step reduced power setting
- Power on password
- Busy, repeater lockout functions
- Optional man down unit, UT-124
- Programmable wide and narrow channel bandwidth (25/12.5kHz, 30/15kHz) 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*	Output power (VHF/UHF)
BP-230N	Li-Ion, 7.4V 950mAh (min.) 980mAh (typ.)	7.35 hours	5W/4W
BP-232N	Li-Ion, 7.4V 1900mAh (min.) 2000mAh (typ.)	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

BC-171 DESKTOP CHARGER + BC-147S*1 AC ADAPTER
Charges the BP-232N in 10 hours (approx.).

*1 BC-145/BC-147SA for 120V AC.
SE for 230V AC, SV for 240V AC.
BC-145SUK for 230V AC.

RAPID CHARGER



▲ BC-145S

BC-160 DESKTOP CHARGER + BC-145S*1 AC ADAPTER
Charges the BP-232N in 3 hours (approx.).
BC-119N + AD-106 + BC-145S is also available. : Charges the BP-232N in 3 hours (approx.).

POWER SUPPLY CABLES



▲ CP-23L

▲ OPC-515L

CP-23L 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-157S

BC-121N MULTI-CHARGER + AD-106 CHARGER ADAPTER + BC-157S 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



▲ 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 transceiver.

SPEAKER-MICROPHONES



▲ HM-153L

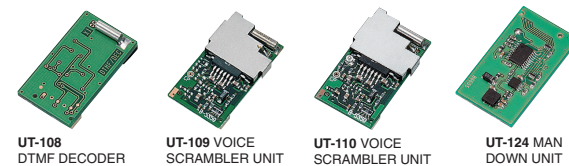
▲ HM-158L

▲ HM-166L

▲ HM-159L

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.
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 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
- Center 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-F33GT/GS 136–174MHz (U.S.A. and General)
IC-F43GT/GS 400–470MHz (U.S.A. and General)
450–512MHz (U.S.A.)
450–520MHz (General)
- Number of channels : 256 channels/16 zones
- Type of emission : 11K0F3E, 16K0F3E
- Channel spacing : 12.5kHz/25kHz, 15kHz/30kHz
- Antenna impedance : 50Ω
- Usable temperature range : –30°C to +60°C; –22°F to +140°F
- Power supply requirement : 7.2V DC
- Current drain (at 7.2V DC; approx.):
Transmit VHF/UHF 1.5A/1.7A (at 5W/4W)
Receive stand-by 85mA
rated output 300mA
- Dimensions (with BP-232N) : 53 (W) ×120 (H) ×36.9 (D) mm;
(projections are not included) 2³/₃₂ (W) ×4²³/₃₂ (H) ×1⁷/₁₆ (D) in
- Weight (approx.) : 340g; 12.0oz
(with BP-232N and antenna)

TRANSMITTER

- Output power VHF : 5W, 2W, 1W (Hi, Low2, Low1),
UHF 4W, 2W, 1W (Hi, Low2, Low1)
- Max. frequency deviation : ±5kHz (Wide)
±2.5kHz (Narrow)
- Frequency stability : ±2.0ppm
- Spurious emissions : 80dB typ. (VHF)
70dB typ. (UHF)
- 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.

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RECEIVER

- Sensitivity : 0.25μV typ. (at 12dB SINAD)
- Adjacent channel selectivity : 75dB typ. (Wide)
65dB typ. (Narrow)
- Spurious response : 70dB
- Intermodulation : 74dB typ.
- Hum and noise ratio : 45dB typ. (Wide)
40dB 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 810F	
	Method	Procedure
Low Pressure	500.4	I, II
High Temperature	501.4	I, II
Low Temperature	502.4	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 MIL-STD-810-C, -D and -E.

SUPPLIED ACCESSORIES

(May differ according to version)



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