



## 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, DTCS
- 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-147S

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

\* 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\* 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.

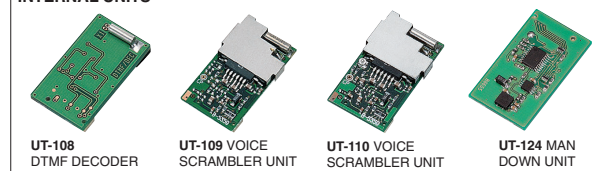
### SPEAKER-MICROPHONES



▲ 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
- 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-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) 2<sup>3</sup>/<sub>32</sub> (W) × 4<sup>23</sup>/<sub>32</sub> (H) × 1<sup>7</sup>/<sub>16</sub> (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)



- Belt clip, MB-94
- Unit cover
- Battery pack, BP-232N

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