



VHF AND UHF TRANSCEIVERS

IC-F3023T IC-F4023T
(VHF transceiver with 10-keypad) (UHF transceiver with 10-keypad)

IC-F3023S IC-F4023S
(VHF transceiver without 10-keypad) (UHF transceiver without 10-keypad)



F3023 F4023 Series



- 128ch/
8 zones
- 2-Tone, 5-Tone,
CTCSS, DTCSS
- VHF 5W
UHF 4W
- IP54 rugged
construction
- 8-character
LCD display
- Optional voice
scrambler

Icom Inc.

SIMPLE, RUGGED, VERSATILE FOR THE EV



▲ IC-F3023T

▲ IC-F4023S

Only Icom quality can offer this featured radio. In this compact size, it offers multiple features such as multiple channels, a Lithium-Ion battery and wide frequency range. This rugged handheld easily offers reliable performance and communication.

Compact lightweight body

The rounded compact* design fits comfortably in your palm and is light-weight** for carrying around all day. The large size programmable buttons have ample button-pitch to allow blind touch operation.

* 53(W)×120(H)×32.5(D) mm

** 260g including BP-231

IP54 dust-protection and splash resistance

The IC-F3023 series meets IP54 requirements for dust-protection and splash resistance. The aluminum die-cast chassis is the basis for this rugged construction, allowing long-life usage in various environments.

128 memory channels and button control memory channel

The IC-F3023 series has 128 memory channels with 8 zones. Memory channel selection can be made easily with the up/down buttons laid out below the PTT button.

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 standby when others are talking.

Multiple 2-Tone, Multiple 5-Tone

Up to ten 2-Tone and eight 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
- Scan
- Bell icon
- Radio stun/kill

Lithium-Ion battery standard

The IC-F3023 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. The optional BP-232 provides a high capacity 2000mAh for longer operating time.

VHF TRANSCEIVERS

IC-F3023T

With 10-keypad

IC-F3023S

Without 10-keypad

UHF TRANSCEIVERS

IC-F4023T

With 10-keypad

IC-F4023S

Without 10-keypad

EVERYDAY USER

simple to use but versatile rich light weight body, many attractive signalings, large capacity frequency coverage are built-in. Exceeds your expectations with communication quality.

8 programmable buttons

The [P0]–[P3], [▲], [▼], [Monitor] and [Red] 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.

Wide frequency coverage

The IC-F3023 series covers a wide frequency range with one version (136–174, 400–470, 450–520 MHz). Wide and narrow channel spacing (25, 12.5kHz) is programmable per channel.

Optional board

The IC-F3023 series has a 40-pin expansion socket for adding an optional board. A voice scrambler provides secure conversation and the DTMF decoder features has ANI capability, depending on the installed board.

Optional VOX headset

With one of Icom's optional headsets and PTT/VOX unit, the IC-F3023 series offers hands-free operation.

Other features

- New regular charger, BC-171
- TOT function and lock out penalty timer
- 8 DTMF autodial memories
- 2 step power saver
- Surveillance function temporarily turns off the LED backlight and beep sound
- Normal and priority scan
- 500mW loud and clear audio
- Embedded ESN (Electronic serial number)

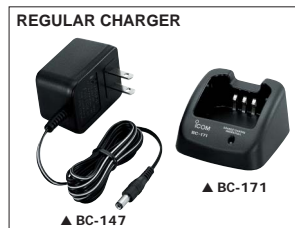
OPTIONS

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



Battery packs	Type and capacity	Operating time* (VHF/UHF)	Output power (VHF/UHF)
BP-230	Li-Ion 7.4V/ 800mAh	6 hours	5W/4W
BP-231	Li-Ion 7.4V/1150mAh	9 hours	5W/4W
BP-232	Li-Ion 7.4V/2000mAh	15.5 hours	5W/4W
BP-240	AAA (LR03) batteries × 6	–	1W

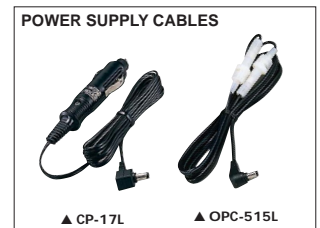
* Operating time is approximate time (at 20°C). Tx: Rx: standby=5:5:90. Power save on.



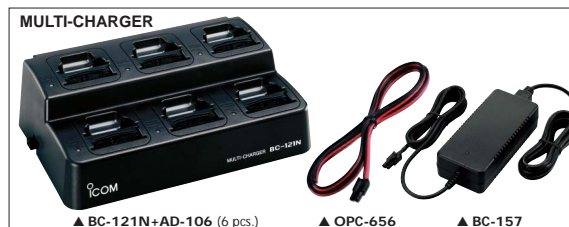
BC-171 DESKTOP CHARGER + BC-147 AC ADAPTER
Charges the battery pack in 8–10 hours (approx.).



BC-160 DESKTOP CHARGER + BC-145 AC ADAPTER
Charges the BP-231 in 2 hours (approx.).
BC-119N + AD-106 + BC-145 is also available. : Charges the BP-231 in 2 hours (approx.).



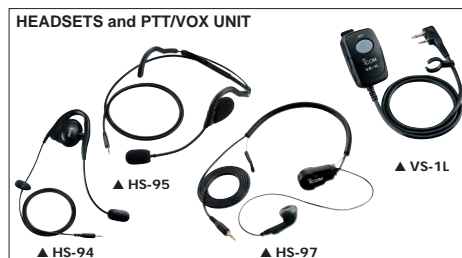
CP-17L CIGARETTE LIGHTER CABLE, OPC-515L DC POWER CABLE
For use with the BC-160 or BC-119N. (12–16V DC required).



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-231 in 2 hours (approx.).
OPC-656 DC POWER CABLE :For use with the BC-121N. (12–20V DC required).



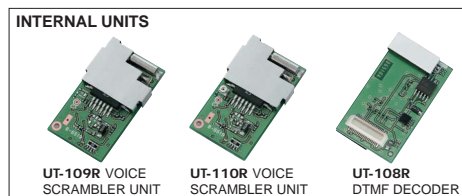
MB-93 : Swivel type belt clip.
MB-94 : Alligator type. Same as supplied.
MB-96N : Swivel type belt hanger.
MB-96F : Fixed type belt hanger.



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.



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.



UT-109R: Up to 32 scrambling codes are available. 40-pin type.
UT-110R: Up to 1020 scrambling codes are available. 40-pin type.
UT-108R: Provides DTMF selective call and ANI capabilities. 40-pin type.



SP-13 EARPHONE
Provides clear audio in noisy environments.



STUBBY ANTENNAS
• **FA-SC56VS**: 150–162MHz, 80mm
• **FA-SC57VS**: 160–174MHz, 80mm
• **FA-SC73US**: 450–490MHz, 60mm
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-F3023T/S 136–174MHz
 - IC-F4023T/S 400–470MHz
 - 450–520MHz
- Number of channels : 128 channels/8 zones
- Channel spacing : 12.5kHz/25kHz
- PLL channel step : 2.5kHz, 3.125kHz
- Antenna impedance : 50Ω
- Usable temperature range : –30°C to +60°C
- Power supply requirement : 7.2V DC
- Current drain (at 7.2V DC; approx.):

Transmit	VHF/UHF	1.5A/1.5A (at 5W/4W)
Receive	Stand-by	75mA
	Rated output	250mA
- Dimensions (with BP-231) : 53 (W) × 120 (H) × 32.5 (D) mm
(projections are not included)
- Weight (approx.) : 260g (with BP-231)

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 : 48/45dB typ. (Wide/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

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

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RECEIVER

- Intermediate frequency : 1st 46.35MHz
2nd 450kHz
- Sensitivity : 0.25μV typ. (at 12dB SINAD)
- Squelch sensitivity : 0.25μV typ. (at threshold)
- Adjacent channel selectivity : 75/65dB typ. (Wide/narrow)
- Spurious response : 70dB min.
- Intermodulation : 75/74dB typ. (VHF/UHF)
- Hum and noise ratio
 - VHF : 55/50dB typ. (Wide/narrow)
 - UHF : 53/48dB typ. (Wide/narrow)
- Audio output power : 500mW typ.
(at 5% distortion with an 8Ω load)
- External speaker connector : 2-conductor 3.5 (d) mm/8Ω

SUPPLIED ACCESSORIES (May differ according to version)



- Belt clip, MB-94
- Option plate
- Battery pack, BP-231

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