



VHF AND UHF TRANSCEIVERS

IC-F3022T IC-F4022T

(VHF transceiver with 10-keypad)

(UHF transceiver with 10-keypad)

IC-F3022S IC-F4022S

(VHF transceiver without 10-keypad)

(UHF transceiver without 10-keypad)



IP54

**MDC 1200
Compatible**

Limited Functions only.



One Step Up



128 ch /
8 zones

2-Tone, 5-Tone
CTCSS, DTCS

MDC PTT ID &
MDC emergency call

15.5 hrs. operating
time with BP-232N

8-character
LCD display

Optional voice
scrambler

SIMPLE, RUGGED, VERSATILE FOR T



▲ IC-F3022T

▲ IC-F4022S

VHF TRANSCEIVERS

IC-F3022T

With 10-keypad

IC-F3022S

Without 10-keypad

UHF TRANSCEIVERS

IC-F4022T

With 10-keypad

IC-F4022S

Without 10-keypad

Only Icom quality can offer this featured radio. In this compact, rugged design, it offers a wide range of features such as multiple memory channels, a long-life 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)×36.9(D) mm

** 300g including BP-232N

IP54 dust-protection and splash resistance

The IC-F3022 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-F3022 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

Supplied 2000mAh Li-Ion battery pack, BP-232N, provides 15.5 hours* of operating time. Li-Ion batteries have virtually no memory issues and allows you flexible charging. * Typical operation; Tx:Rx:Stand-by=5:5:90, power save on

THE EVERYDAY USER

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

Lone worker function

When the radio is not operated for a pre-set period, the radio sounds a beep and requires you to push any button. If the radio is not operated for a preset time, an emergency signal automatically transmits and informs your co-worker that something may have happened to the individual worker.

Mode dependent scan

In the mode dependent setting, the scanning setting is dependent on the operating channel. When you change the operating channel, the scanning list automatically changes to the list set for that channel. It is convenient when you move to a different operating area and change an operating channel, you don't have to change the scanning setting.

MDC 1200 compatible

The following MDC features are available with the built-in MDC signaling.

- PTT ID (Tx/Rx) • Radio check (Rx)
- Emergency* (Tx/Rx) • Stun/revive (Rx)
- 5 alias table (Max.) (* No ACK)

Optional internal units

The IC-F3022 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 (Automatic Number Identification) capability, depending on the installed board.

Other features

- 2 step power saver
- 8 DTMF autodial memories
- Surveillance function temporarily turns off the LED backlight and beep sound
- Optional man down unit, UT-124R
- Normal and priority scan
- Nuisance delete function temporarily deletes a channel from the scanning list
- TOT (Time-Out-Timer) function and lock out penalty timer
- Low battery beep function

OPTIONS

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



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.)	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 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.



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.).



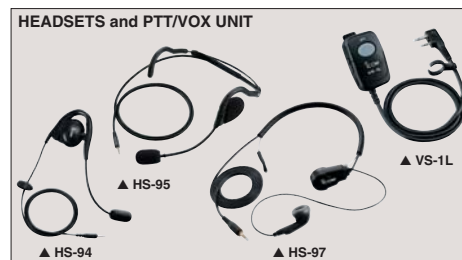
CP-23L CIGARETTE LIGHTER CABLE, OPC-515L DC POWER CABLE
For use with the BC-119N. (12-16V DC required).



BC-197 MULTI-CHARGER + BC-157S AC ADAPTER
Rapidly charges up to 6 battery packs. Charger adapter AD-122 is supplied with the BC-197.
OPC-656 DC POWER CABLE : For use with the BC-197. (12-20V DC required).
BC-121N + AD-106 + BC-157S is also available.



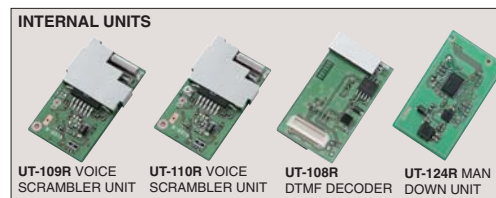
MB-93 : Swivel type belt clip.
MB-94 : Alligator type. Same as supplied.
MB-96N : Swivel type belt hanger.
MB-96F : Fixed type belt hanger.



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.
HM-166L: Light-weight earphone microphone with revolving clip.



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.
UT-124R: Automatically sends an emergency signal when the transceiver is left in a horizontal position for a preset time. 40-pin type.



SP-27 : Acoustic tube earphone with clothing clip.
SP-13 : Provides clear audio in noisy environments.

STUBBY ANTENNAS

- **FA-SC56VS**: 150-162MHz, 80mm
- **FA-SC57VS**: 160-174MHz, 80mm
- **FA-SC73US**: 450-490MHz, 60mm

CUT ANTENNAS

- **FA-SC61VC**: 136-174MHz
- **FA-SC61UC**: 380-520MHz
- **FA-SC25U**: 400-430MHz
- **FA-SC57U**: 430-470MHz

ANTENNAS

- **FA-SC25V**: 136-150MHz
- **FA-SC55V**: 150-174MHz
- **FA-SC25U**: 400-430MHz
- **FA-SC57U**: 430-470MHz

SPECIFICATIONS

GENERAL

- Frequency range :
IC-F3022T/S 136–174MHz
IC-F4022T/S 400–470MHz
- Number of channels : 128 channels/8 zones
- Channel spacing : 12.5/20/25kHz
- Type of emission : 8K50F3E, 14K0F3E, 16K0F3E
- Antenna impedance : 50Ω
- Usable temperature range : –25°C to +55°C
- Power supply requirement : 7.2V DC
- Current drain (at 7.2V DC; approx.):
Transmit VHF/UHF 1.5A/1.6A (at 5W/4W)
Receive Stand-by 75mA
Rated output 250mA
- Dimensions (with BP-232N) : 53 (W) × 120 (H) × 36.9 (D) mm
(projections are not included)
- Weight (approx.) VHF : 300g (with BP-232N)
UHF 320g (with BP-232N)

TRANSMITTER

- Output power VHF : 5W, 2W, 1W (Hi, Low2, Low1),
UHF 4W, 2W, 1W (Hi, Low2, Low1)
- Max. frequency deviation : ±5.0/±4.0/±2.5kHz (Wide/mid/narrow)
- Frequency stability : ±2.5ppm
- Spurious emissions : 0.25μW (≤ 1GHz)
1.0μW (> 1GHz)
- 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.

RECEIVER

- Sensitivity : –4dBμV typ. (emf; at 20dB SINAD)
- Adjacent channel selectivity VHF : 75/75/65dB typ. (Wide/mid/narrow)
UHF 75/73/66dB typ. (Wide/mid/narrow)
- Spurious response : 70dB min.
- Intermodulation : 67dB typ.
- Hum and noise ratio VHF : 60/58/55dB typ. (Wide/mid/narrow)
UHF 55/53/50dB typ. (Wide/mid/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	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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Icom Inc.

1-1-32, Kami-minami, Hirano-ku, Osaka 547-0003, Japan Phone: +81 (06) 6793 5302 Fax: +81 (06) 6793 0013

www.icom.co.jp/world

Count on us!

Icom America Inc.

2380 116th Avenue NE,
Bellevue, WA 98004, U.S.A.
Phone: +1 (425) 454-8155
Fax: +1 (425) 454-1509
E-mail: sales@icomamerica.com
URL: <http://www.icomamerica.com>

Icom Canada

Glenwood Centre #150-6165 Highway 17,
Delta, B.C., V4K 5B8, Canada
Phone: +1 (604) 952-4266
Fax: +1 (604) 952-0090
E-mail: info@icomcanada.com
URL: <http://www.icomcanada.com>

Icom (Australia) Pty. Ltd.

Unit 1 / 103 Garden Road,
Clayton, VIC 3168 Australia
Phone: +61 (03) 9549 7500
Fax: +61 (03) 9549 7505
E-mail: sales@icom.net.au
URL: <http://www.icom.net.au>

Icom New Zealand

146A Harris Road, East Tamaki,
Auckland, New Zealand
Phone: +64 (09) 274 4062
Fax: +64 (09) 274 4708
E-mail: inquiries@icom.co.nz
URL: <http://www.icom.co.nz>

Icom (Europe) GmbH

Communication Equipment
Auf der Krautweide 24
65812 Bad Soden am Taunus, Germany
Phone: +49 (6196) 76685-0
Fax: +49 (6196) 76685-50
E-mail: info@icom-europe.com
URL: <http://www.icomeurope.com>

Icom Spain S.L.

Ctra. Rubi, No. 88 "Edificio Can Castanyer"
Bajos A 08174, Sant Cugat del Valles,
Barcelona, Spain
Phone: +34 (93) 590 26 70
Fax: +34 (93) 589 04 46
E-mail: icom@icomspain.com
URL: <http://www.icomspain.com>

Icom (UK) Ltd.

Blacksole House, Altira Park,
Herne Bay, Kent, CT6 6GZ, U.K.
Phone: +44 (01227) 741741
Fax: +44 (01227) 741742
E-mail: info@icomuk.co.uk
URL: <http://www.icomuk.co.uk>

Icom France s.a.s.

Zac de la Plaine,
1 Rue Brindejont des Moulinais, BP 45804,
31505 Toulouse Cedex 5, France
Phone: +33 (5) 61 36 03 03
Fax: +33 (5) 61 36 03 00
E-mail: icom@icom-france.com
URL: <http://www.icom-france.com>

Icom Polska

81-850 Sopot, ul. 3 Maja 54, Poland
Phone: +48 (59) 550 7135
Fax: +48 (59) 551 0484
E-mail: icompolksa@icompolksa.com.pl
URL: <http://www.icompolksa.com.pl>

Asia Icom Inc.

6F No. 68, Sec. 1 Cheng-Teh Road,
Taipei, Taiwan, R.O.C.
Phone: +886 (02) 2559 1899
Fax: +886 (02) 2559 1874
E-mail: sales@asia-icom.com
URL: <http://www.asia-icom.com>

Your local distributor/dealer: