



VHF AND UHF TRANSCEIVERS

IC-F3163T

(VHF transceiver with 10-keypad)

IC-F4163T

(UHF transceiver with 10-keypad)

IC-F3163S

(VHF transceiver without 10-keypad)

IC-F4163S

(UHF transceiver without 10-keypad)

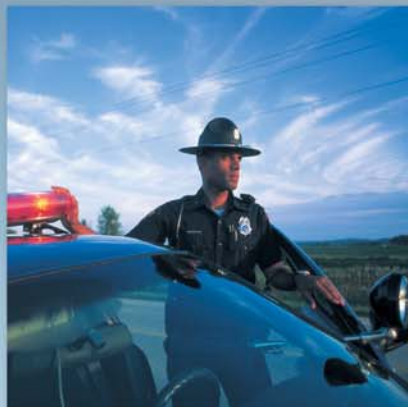


IDAS™

ICOM DIGITAL ADVANCED SYSTEM



LTR™
Conventional
IDAS™ Digital
IDAS™ Trunking



- 512 ch / 128 zones
- Conventional/BIIS 1200 mode
- IDAS digital (With UT-126H)
- 2-Tone, 5-Tone CTCSS, DTCSS
- VHF 5W, UHF 5W output
- 14 hrs. operating time with BP-232H
- Full dot-matrix LCD

LTR[®] / Conventional / Digital* – Multi-Mod

* With UT-126H installed.



▲ IC-F3163T

▲ IC-F4163S

IP55 Dust-protection and water jet resistance

The IC-F3163 series meets IP55 requirements for dust-protection and water jet resistance. Its durable construction is backed up by the aluminum die-cast chassis and polycarbonate casing, allowing reliable operation under harsh weather and environmental conditions.

Lithium-ion battery pack

The 2350 mAh (typ.) Li-ion battery pack, BP-232H, provides 14 hours* of operating time. The optional battery case BP-240 provides a convenient back up and great reassurance in an emergency.

* Typical operation Tx:Rx:Stand-by=5:5:90, power save on

Most popular signalings built-in

The built-in 2-Tone and 5-Tone capabilities allow you to send a tone code with your call and decode multiple tone code on a channel. 40 pairs of CTCSS/DTCS memory channels are also available.

MDC 1200 Compatible

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

- PTT ID
- SelCall
- Radio check
- Radio stun/revive
- 500 Aliases
- Status message/request
- Call alert
- Emergency, emergency mic monitoring

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 12-character SDM (Short Data Message)
- Receive up to 95 characters of free text
- GPS position reporting function with optional HM-170GP

Basic LTR™/Conventional mode operation

Both conventional and LTR™ mode channels are programmable in a radio. MDC signaling is also available on LTR™ mode.

Wide frequency range

The IC-F3163 series covers a wide frequency range in one version (VHF 136–174 MHz, UHF 400–470 MHz or 450–520 MHz).

VHF TRANSCEIVERS

IC-F3163T

With 10-keypad

IC-F3163S

Without 10-keypad

UHF TRANSCEIVERS

IC-F4163T

With 10-keypad

IC-F4163S

Without 10-keypad

e Land Mobile

OPTIONS

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

Full dot-matrix LCD

Using a large full dot-matrix LCD (32 × 18 mm), the IC-F3163 series shows upper and lower case characters clearly. The display setting is selectable from 1 line, 12 characters or 2 lines 24 characters via programming. The bottom row shows assigned functions to the [P0] to [P3] buttons.



Voting scan (Analog mode only)

The voting mode scanning detects the signal strength level of repeater stations and automatically selects the strongest station, useful for roaming between 2 or more repeater sites. Once you program the voting mode to a memory zone, you can easily start voting mode operation by changing the zone setting.

Enhanced audio

The IC-F3163 series employs a BTL amplifier that increases the audio output and the built-in audio compander provides clear, low noise communications.

Built-in inversion-type voice scrambler

The built-in inversion type voice scrambler* provides secure conversation as standard. When a more secure system is required, optional voice scrambler UT-109R or UT-110R are available.

* Inversion type voice scrambler is not compatible with UT-109R/UT-110R voice scrambler.

Other features

- 512 memory channel with 128 zones
- 8 DTMF autodial memories
- 2 step reduced power setting
- Busy, repeater lockout functions
- Lone worker function
- Escalating alarm
- Mode dependent scan
- Surveillance function temporarily turns off the LED backlight and beep sound
- Powerful 5W output both VHF and UHF
- Power on password and more...

BATTERY PACKS AND CASE



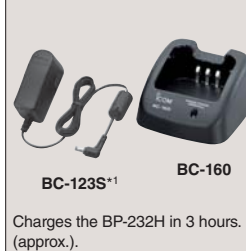
Battery packs	Type	Capacity	Operating time*	Output power
BP-230N	Rechargeable Li-ion	950 mAh (min.), 980 mAh (typ.)	5.5 hours	5 W
BP-232H	Rechargeable Li-ion	2200 mAh (min.), 2350 mAh (typ.)	14 hours	5 W
BP-240	AAA (LR03) batteries × 6		—	1 W

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

REGULAR CHARGER



RAPID CHARGER



MULTI-CHARGER



*1 BC-123/BC-147SA for USA plug. SE for Europe plug. SV for Australia plug.

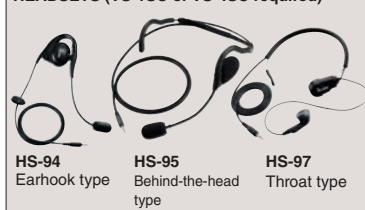
SPEAKER-MICROPHONES



EARPHONES



HEADSETS (VS-1SC or VS-4SC required)



PTT CASE/PTT SWITCH CABLE



POWER SUPPLY CABLES



BELT CLIPS



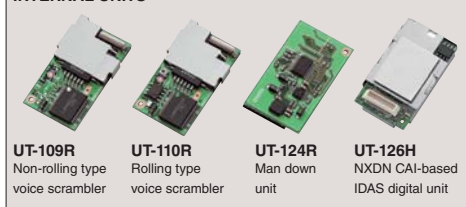
LEATHER BELT HANGERS



CHARGER BRACKET



INTERNAL UNITS



STUBBY ANTENNAS

- FA-SC56VS: 150–162 MHz
- FA-SC57VS: 160–174 MHz
- FA-SC73US: 450–490 MHz

CUT ANTENNAS

- FA-SC61VC: 136–174 MHz
- FA-SC61UC: 380–520 MHz

HIGH GAIN ANTENNAS

- FA-SC62V: 150–160 MHz
- FA-SC63V: 155–165 MHz

ANTENNAS

- FA-SC25V: 136–150 MHz
- FA-SC55V: 150–174 MHz
- FA-SC25U: 400–430 MHz
- FA-SC57U: 430–470 MHz
- FA-SC72U: 470–520 MHz

IDAS digital mode ready

IDAS (Icom Digital Advanced System) is Icom's digital land mobile system using the 6.25 kHz narrowband FDMA technology. When installed optional UT-126H digital unit, the IC-F3163 series is compatible with IDAS conventional and IDAS single-site/multi-site trunking using the NXDN™ common air interface. The IC-F3163 series provides 2 optional slots: one optional slot for the UT-126H digital unit and one for an additional option board. See the IDAS brochure for details.

DIGITAL



SPECIFICATIONS

GENERAL

- Frequency range :
 - IC-F3063T/S 136–174 MHz
 - IC-F4063T/S 400–470 MHz
 - 450–520 MHz
- Number of channels : 512 channels/128 zones
- Channel spacing : 12.5 kHz/25 kHz,
6.25 kHz (With UT-126H)
- Type of emission : 16K0F3E, 11K0F3E, 11K0F7E/D,
8K50F3E, 8K10F1E/D
Digital (With UT-126H) 4K00F1E/D
- Antenna impedance : 50 Ω
- Usable temperature range : –30 °C to +60 °C
- Power supply requirement : 7.2 V DC nominal
- Current drain (at 7.2 V DC; approx.):
 - Transmit at 5 W 1.5 A/1.8 A (VHF/UHF)
 - Receive Stand-by 100 mA
 - with UT-126H 150 mA/140 mA (VHF/UHF)
 - Rated output 600 mA
- Dimensions (with BP-232H) : 53 (W) × 136 (H) × 38.5 (D) mm
(projections are not included)
- Weight (approx.) : 340 g (with BP-232H)

TRANSMITTER

- Output power VHF/UHF : 5 W/2 W/1 W (Hi/L2/L1)
- Max. frequency deviation : ±5 kHz (Wide), ±2.5 kHz (Narrow)
- Frequency stability : ±1.0 ppm
- Spurious emissions : 75 dB typ.
- FM Hum and Noise : 46 dB typ. (Wide), 40 dB typ. (Narrow)
- Audio harmonic distortion : 3% typ. (AF 1 kHz, 40% deviation)
- Modulation limiting : 60–100% of max. deviation
- External microphone connector :
9-pin multi connector/ 2.2 kΩ

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

RECEIVER

- Intermediate frequency : 1st 46.35 MHz
2nd 450 kHz
- Sensitivity : 0.25 μV typ. (at 12 dB SINAD)
- Adjacent channel selectivity : 75 dB typ. (Wide), 68 dB typ. (Narrow)
- Spurious response : 70 dB min.
- Intermodulation : 74 dB typ.
- Hum and noise ratio : 46 dB typ. (Wide), 40 dB typ. (Narrow)
- Audio output power : 500 mW typ.
(at 5% distortion with an 8 Ω load)
- External speaker connector: 9-pin multi connector/ 8 Ω

Applicable U.S. Military Specifications & IP Rating

Icom makes rugged products that have been tested to and passed the following MIL-STD requirements and Ingress Protection 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.

Ingress Protection Standard

Dust & Water	IP55 (Dust-protection and water jet resistance)
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SUPPLIED ACCESSORIES

(May differ according to version)



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