



VHF AND UHF TRANSCEIVERS

IC-F5062 (VHF transceiver)

IC-F6062 (UHF transceiver)



**Complete
Analog
Conventional
IDAS Digital**

- 512ch/
128zones
- Conventional/
BISS 1200 mode
- IDAS digital
(with UT-126H)
- 2-Tone, 5-Tone
CTCSS, DTCS
- 25W Output
- IP54
(Controller only)
- Full dot-matrix
LCD

IDAS
ICOM DIGITAL ADVANCED SYSTEM



Advanced Professional Mobile with Future Digital Migration

The IC-F5062/F6062 is ideal for public safety, transportation and delivery service users. It offers a full dot-matrix display, improved scanning and flexible installation suitable for mobile and base stations.

VHF TRANSCEIVER

IC-F5062 25W

UHF TRANSCEIVER

IC-F6062 25W



The above photo includes optional separation kit, RMK-3, and separation cable, OPC-609.



Detachable front panel

With the optional remote control kit, RMK-3 and separation cable, the front panel of the radio can be detached from the main unit. It allows you flexible installation even in limited installation space.

Dot matrix, multi-function LCD

With a high contrast dot matrix display, upper and lower case characters can be easily distinguished. You can change the display setting to show one line and 12 characters, or two lines and 24 characters via programming. LCD backlighting is standard.



Two line setting display example.

Front mounted speaker

4 watts (typ.) front mounted speaker delivers clear and loud audio. The built-in audio compander improves the signal to noise ratio.

IP54 dust-protection and splash resistance (Controller only)

The rugged die-cast chassis and polycarbonate front panel are resistant to shock and vibration. When used with the optional separation kit, the remote control head has dust-protection and splash resistant construction, equivalent to IP54.

Wide frequency range and large channel capacity

The IC-F5062 series covers a wide frequency range in one version (VHF 136–174 MHz, UHF 400–470MHz). The 512 memory channel capacity with 128 zones allows you to divide and store a variety of flexible channel groupings. Wide, middle and narrow channel bandwidth (25/20/12.5kHz)* is also programmable.

* Programmable 25/12.5kHz or 20/12.5kHz.

Multiple 2-Tone, 5-Tone signalings

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

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 text

Voting mode scan

The Voting mode scanning detects the signal strength level of repeater stations and automatically selects the strongest station or the first station to exceed the preset signal level. It is 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.

Mode dependent scan

In the normal mode scan, you can select a scanning list independent to the channel setting. In the mode dependent setting, the scanning list is automatically selected according to the operating channel. It is convenient when you change operating channels or move to a different operating area, you don't need to change the scanning setting.

Built-in inversion-type voice scrambler

The built-in inversion type voice scrambler provides secure conversation. When

a more secure system is required, the 32 code non-rolling-type voice scrambler UT-109R and 1020 code rolling type UT-110R are available as an option.

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

D-sub accessory connector

The IC-F5062 series has a D-SUB 25 pin ACC connector for connecting various external devices.



Other features

- 8 DTMF autodial memories and ANI function with DTMF
- Optional heavy duty, dynamic microphone HM-148
- Power on password
- Radio stun, kill and revive functions disable or re-enable a lost or stolen unit over the air
- Busy repeater lockout function
- Surveillance function temporarily turns off the LED backlight and beep sound
- Convenient key assign stickers are supplied
- Microphone hanger action programmable
- Ignition sensing line
- Built-in basic LTR™ trunking capabilities
- Embedded ESN
- Flash CPU for future upgrade
- The IC-F3162/ F4162 series is the handheld equivalent model
- Escalating alarm
- Lone worker function
- Advanced scanning functions including Tx channel, talk back and nuisance delete and more...

IDAS digital mode ready

IDAS (Icom Digital Advanced System) is Icom's digital PMR system using the NXDN™ common air interface. It has useful calling features including selective calling, status message, radio stun/revive/kill, etc, with spectrum efficient 6.25kHz channel spacing.

The IC-F5062 series provides 2 optional slots: one optional slot for the UT-126H digital unit and one for an additional optional board. See the IDAS brochure for details.

DIGITAL



SPECIFICATIONS

GENERAL

- Frequency range :
 - IC-F5062 136–174MHz
 - IC-F6062 400–470MHz
- Number of channels : Max. 512 channels/128 zones
- Channel spacing : 12.5/20/25kHz
6.25kHz (With UT-126H)
- PLL channel step : 2.5, 3.125kHz
- Antenna impedance : 50Ω nominal
- Power supply requirement : 13.2V DC
- Current drain (approx) :
 - Tx at 25W 7.0A
 - Rx Max. audio 1200mA
 - Stand-by 300mA
- Operating temperature range : -25°C to +55°C
- Dimensions (W×H×D) : 160×45×150 mm (Projections are not included)
- Weight (approx.) : 1.3kg

TRANSMITTER

- Output power : 25W
- Max. frequency deviation : ±5.0/4.0/2.5kHz (Wide/ middle/ narrow)
- Frequency error : ±1.5kHz
- Spurious emissions : 0.25μW (≤ 1GHz)
1.0μW (> 1GHz)
- Adjacent channel power : 70/70/60dB min. (Wide/ middle/ narrow)
- Audio harmonic distortion : 3% typ. (40% deviation)
- Limiting character of : 70–100% of Max. modulator deviation
- External microphone : 600Ω (8-pin modular) impedance

RECEIVER

- Sensitivity FM : -4dBμV typ. (emf, at 20dB SINAD)
- Digital : -8dBμV typ. (emf, at 5% BER with UT-126H)
- Squelch sensitivity : -4dBμV typ. (emf, at threshold)
- Adjacent channel selectivity : 85/83/75dB typ. (Wide/ middle/ narrow)
- Spurious response : 90dB typ.
- Intermodulation : 70dB typ.
- Audio output power : 4W typ. at 5% distortion with a 4Ω load
- External speaker impedance : 4Ω

Applicable U.S. Military Specifications

The IC-F5062/F6062 and RMK-3 have been tested to and passed the following MIL-STD requirements and strict environmental standards.

Standard	MIL 810 F	
	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

* Rain blowing and drip tests were performed on the controller and RMK-3 only. Also meets equivalent MIL-STD-810-C, -D and -E.

Supplied Accessories

- Hand microphone, HM-152
- DC power cable
- Microphone hanger
- Mounting bracket kit
- Key assign stickers

Measurements made in accordance with EN 300 086. All stated specifications are subject to change without notice or obligation.

OPTIONS

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

HAND MICROPHONES



- HM-152 : Regular microphone. Same as supplied.
- HM-152T : DTMF microphone.
- HM-148 : Dynamic microphone for heavy duty use.

DESKTOP MICROPHONE SM-25



SM-25 : Convenient for dispatching, equipped with monitor switch.

EXTERNAL SPEAKERS



- SP-5 : Large external speaker.
- SP-10 : Mid sized external speaker.
- SP-22 : Compact and easy-to-install external speaker.

SEPARATION KIT



RMK-3 : For front panel detachment installation.

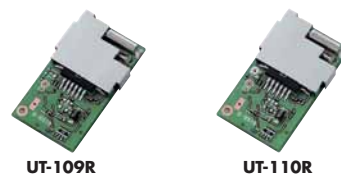
SEPARATION CABLES



- OPC-609: 1.9m Separation cable for use with the RMK-3.
- OPC-607* (3m) and OPC-608* (8m) cables are EMC non-compliant.

* Not available in EU countries.

VOICE SCRAMBLER UNITS



- UT-109R: Non-rolling type voice scrambler.
- UT-110R: Rolling type voice scrambler.

DIGITAL UNIT



UT-126H : Provides IDAS digital capability.

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