ICOM

IC-F5062 (VHF transceiver)
IC-F6062 (UHF transceiver)

Rugged
MIL-STD 810

F5062
F6062

- 512 ch / 128 zones
- Conventional / BIIS 1200 mode
- 2-Tone, 5-Tone CTCSS, DTCS
- VHF 25W, UHF 25W Output
- IP54 (Controller only)
- Full dot-matrix LCD

ch-01
Icom Inc.

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 scan

The voting scan detects the S-meter level of repeater stations and automatically selects the strongest station or the first station to exceed the preset S-meter level, useful for roaming between 2 or more repeater sites.

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.

Enhanced scanning

The Tx channel on which the radio transmits when user pushes the PTT button while scanning, can be programmable per scanning list. Start channel, last detected channel, priority and preprogrammed channel are selectable. In addition, the nuisance delete function temporary skips a busy channel from the scanning list.

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.

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 and kill functions disable 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-F3062/ F4062 series is the handheld equivalent model
and more...

DIGITAL

Digital mode capability

An optional upgrade to 6.25kHz digital operation is planned in the near future.

Icom is currently researching the regulatory requirements for use in Europe for the 6.25kHz 4FSK/FDMA technology.

IC−F5062 · IC−F6062

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
- 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

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

TRANSMITTER

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

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

RECEIVER

- Sensitivity : –4dBµV typ. (emf, at 20dB SINAD)
- Squelch sensitivity : –12dBµV typ. (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 10% 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.

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

HAND MICROPHONES

HM-152 HM-152T HM-148

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

EXTERNAL SPEAKERS

SP-5 SP-10 SP-22

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

SEPARATION KIT SEPARATION CABLES

RMK-3 OPC-609 (1.9m) OPC-607 (3m) OPC-608 (8m)

RMK-3 : For front panel detachment installation.
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.
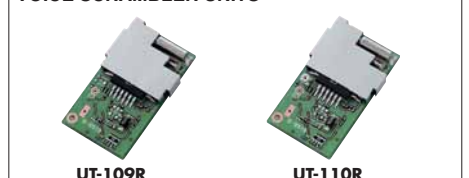All trademarks are the properties of their respective holders.

DESKTOP MICROPHONE

SM-25

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

VOICE SCRAMBLER UNITS

UT-109R UT-110R

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