ICOM

IC–F5062D
(IDAS digital VHF transceiver)

IC–F6062D
(IDAS digital UHF transceiver)

IC–F5062
(VHF transceiver)

IC–F6062
(UHF transceiver)

Rugged
MIL-STD 810

BIIS 1200
Compatible

512 ch/
128 zones

Conventional/
BIIS 1200 mode

IDAS™ dPMR™
IDAS™ NXDN™

2-Tone, 5-Tone
CTCSS, DTCS

25W Output

IP54
(Controller only)

Full dot-matrix
LCD

Analogue
IDAS™ dPMR™
IDAS™ NXDN™

ch-01
Icom Inc.

iDAS™
ICOM **D**IGITAL **A**DVANCED **S**YSTEM

ch-01
Icom Inc.

PO P1 P2 ◄P3 P4► ⏻

Analogue/Digital* Multi-Mode Professional Mobile

* With IC-F5062D/IC-F6062D "D" version.

VHF TRANSCEIVERS `25W`

IC-F5062/D

UHF TRANSCEIVERS `25W`

IC-F6062/D

The above photo includes optional seperation 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 useful for night time operation.

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/D 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 operation

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.

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

Other features

• 8 DTMF autodial memories
• 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
• Microphone hanger action programmable
• Ignition sensing line
• Built-in basic LTR™ trunking and MDC 1200 capability* (* Depending on version)
• The IC-F3162/D, F4162/D 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 land mobile system using the 6.25kHz narrowband FDMA technology. IDAS has choice of an NXDN™ protocol or an ETSI dPMR™ protocol. See the IDAS brochure for details.

SPECIFICATIONS

	IC-F5062D/IC-F5062	IC-F6062D/IC-F6062
GENERAL		
Frequency coverage	136–174MHz	400–470MHz
Number of channels	Max 512 channels /128 zones	
Type of emission	16K0F3E, 14K0F3E, 8K50F3E, 4K00F1E/F1D	
Channel spacing	25/20/12.5kHz, 6.25kHz (Digital)	
PLL channel step	2.5/3.125kHz	
Power supply requirement	13.2V DC	
Current drain (approx.) Tx 25W Rx Max. audio Standby	7A 1200mA 300mA	
Antenna impedance	50Ω (SO-239)	
Operating temperature range	−25°C to +55°C	
Dimensions (W×H×D) (Projections not included)	160×45×150mm	
Weight (approx.)	1.3kg	
TRANSMITTER		
Output power (at 13.2V DC)	25W, 10W, 2.5W (Hi, L2, L1)	
Max. frequency deviation	±5.0kHz/±4.0kHz/±2.5kHz (W/M/N)	
Frequency stability	±1.5kHz	
Spurious emissions	0.25μW (≤1GHz) 1.0μW (>1GHz)	
Audio harmonic distortion	3% typ. (AF 1kHz 40% deviation)	
FSK error	5% Max. (Digital)	
Ext. microphone impedance	600Ω (8-pin modular)	
RECEIVER		
Sensitivity (at 20dB SINAD) (at 5% BER)	−4dBμV typ. (emf) −8dBμV typ. (emf)	
Adjacent channel selectivity	85/83/75dB typ. (W/M/N)	
Spurious response rejection	90dB typ.	
Intermodulation	70dB typ.	
Audio output power	4W typ. (at 5% distortion, 4Ω load)	
Ext. speaker connector	2-conductor 3.5 (d) mm (⅛″)/4Ω	

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

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

VERSION COMPARISON

	IC-F5062D IC-F6062D (IDAS dPMR version)	IC-F5062D IC-F6062D (IDAS NXDN version)	IC-F5062 IC-F6062 (FM version)
CTCSS/DTCS (Analogue)	✔	✔	✔
5-Tone enc/dec (Analogue)	✔	✔	✔
2-Tone enc/dec (Analogue)	✔	✔	✔
DTMF autodial (Analogue)	✔	✔	✔
DTMF decoder (Analogue)	✔	✔	✔
BIIS 1200 (Analogue)	✔	✔	✔
MDC 1200 (Analogue)	−	✔	✔
LTR trunking (Analogue)	−	✔	✔
Voice scrambler (Analogue) Inversion Non-Rolling Rolling	✔ UT-109R UT-110R	✔ UT-109R UT-110R	✔ UT-109R UT-110R
IDAS dPMR Tier 2 Mode 1/2 Tier 2 Mode 3	✔ ✔	− −	− −
IDAS NXDN Conventional mode Single-site type D trunking Multi-site type D trunking	− − −	✔* ✔* ✔*	UT-126H UT-126H UT-126H

* UT-126H is already installed in the IDAS NXDN version.

Applicable U.S. Military Specifications & IP Rating

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

Also meets equivalent MIL-STD-810-C, -D and -E.

Ingress Protection Standard	
Dust & Water*	IP54 (Dust-protection and water resistant)

* Rain blowing, drip and IP54 tests were performed on the controller and RMK-3 only.

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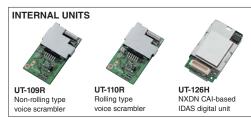
HAND MICROPHONES

HM-152 HM-152T HM-148G HM-148T

SEPARATION KIT
RMK-3

SEPARATION CABLES
One of the separation cables is required for use with the RMK-3.

OPC-609 (1.9m; 6.2ft) OPC-607 (3m; 9.8ft) OPC-726 (5m; 16.4ft) OPC-608 (8m; 26.2ft)

DESKTOP MICROPHONE
SM-26

EXTERNAL SPEAKERS

SP-30 SP-35: 2m cable SP-35L: 6m cable SP-10 SP-5

INTERNAL UNITS

UT-109R
Non-rolling type
voice scrambler

UT-110R
Rolling type
voice scrambler

UT-126H
NXDN CAI-based
IDAS digital unit