



VHF AND UHF TRANSCEIVERS

IC-F5063D

(IDAS digital VHF transceiver)

IC-F5063

(VHF transceiver)

IC-F6063D

(IDAS digital UHF transceiver)

IC-F6063

(UHF transceiver)



LTR™
Conventional
IDAS™ Digital
IDAS™ Trunking

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

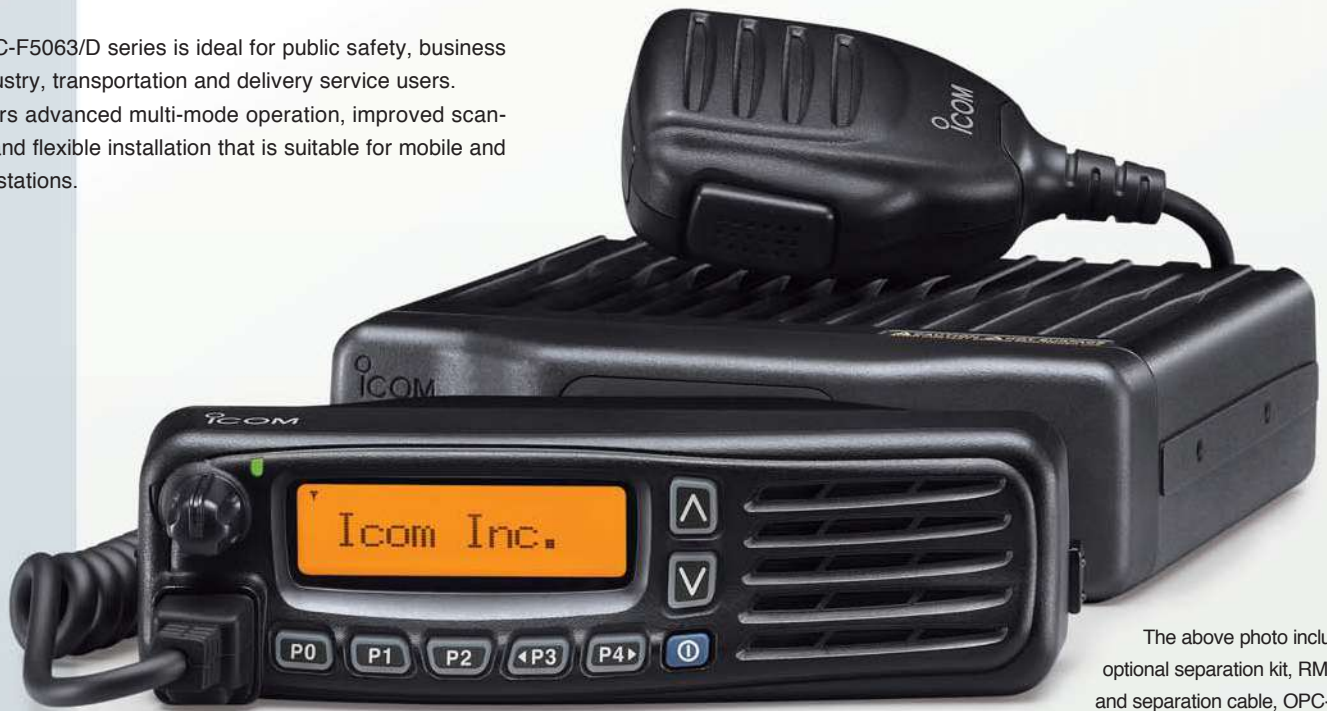
IDAS™
ICOM DIGITAL ADVANCED SYSTEM



Conventional/IDAS™ Digital*/ IDAS™ Trunking*/LTR™ – Multi-Mode Land Mobile!

*With UT-126H installed. Already installed to IC-F5063, IC-F6063 "D" versions.

The IC-F5063/D series is ideal for public safety, business & industry, transportation and delivery service users. It offers advanced multi-mode operation, improved scanning and flexible installation that is suitable for mobile and base stations.



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

VHF TRANSCEIVERS 25W
IC-F5063/D

UHF TRANSCEIVERS 25W
IC-F6063/D



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.

Basic LTR™/Conventional mode operation

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

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 codes 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 1200 signaling.

- PTT ID
- Radio check
- Caller ID
- Emergency, emergency mic monitoring
- Selective call
- Radio stun/revive
- 500 Aliases
- Status/message
- Call alert
- Call log

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

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.

Voting mode 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 two 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.

Wide frequency range and large channel capacity

The IC-F5063/D series covers a wide frequency range in one version (VHF 136-174MHz, UHF 400-470 or 450-520MHz). The 512 memory channel capacity with 128 zones allows you to divide and store a variety of flexible channel groupings.

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-F5063/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-148G
- 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
- Flash CPU for future upgrade
- The IC-F3263D 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 LMR 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-F5063 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

	IC-F5063D, IC-F5063	IC-F6063D, IC-F6063
GENERAL		
Frequency coverage	136–174MHz	400–470MHz 450–512MHz 450–520MHz
Number of channels	Max. 512 channels/128 zones	
Type of emission	16K0F3E, 8K50F3E, 4K00F1E/D* (*digital)	
Channel spacing	25/12.5kHz, 6.25kHz* (*digital)	
Power supply requirement	13.2V DC nominal	
Current drain (approx.)		
Tx High (25W)	7A	7A
Rx Max. audio/Stand-by	1200mA/300mA	1200mA/300mA
Antenna impedance	50Ω (SO-239)	
Operating temperature range	–30°C to +60°C	
Dimensions (W×H×D) (Projections not included)	160×45×150 mm	
Weight (approx.)	1.3 kg; 2.9 lb	
TRANSMITTER		
Output power	25W, 10W, 2.5W (Hi, L2, L1)	
Max. frequency deviation	± 5.0kHz/±2.5kHz (W/N)	
Frequency stability	±1.5kHz	
Spurious emissions	75dB typ.	
FM Hum and noise	45/40dB typ. (Wide/Narrow)	
Audio harmonic distortion	3% typ. (AF 1kHz 40% deviation)	
Modulation limiting	70–100% of Max. deviation	
FSK error	5.0% max.	
Ext. microphone impedance	600Ω (8-pin modular)	

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

	IC-F5063D, IC-F5063	IC-F6063D, IC-F6063
RECEIVER		
Sensitivity (at 12dB SINAD) (at 5% BER)	0.25μV typ. 0.20μV typ.	
Adjacent channel selectivity	85/75dB typ. (Wide/Narrow)	
Spurious response rejection	90dB typ.	
Intermodulation rejection	77dB typ.	
Hum and noise	50/45dB typ. (Wide/Narrow)	
Audio output power (4Ω load)	4W typ. (at 5% distortion)	
Ext. speaker connector	2-conductor 3.5 (d) mm (1/8")/4Ω	

Applicable U.S. Military Specifications & IP Rating

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	IP54* (Dust-protection and water resistant)
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* MIL Rain and IP54 tests were performed on the controller and RMK-3 only.

Supplied Accessories

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

OPTIONS

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

SEPARATION KIT



RMK-3
Use with one of the following separation cables.

SEPARATION CABLES



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

HAND MICROPHONES



HM-152
HM-152T DTMF microphone
HM-148G Heavy duty microphone
HM-148T Heavy duty microphone with DTMF keypad

DESKTOP MICROPHONE




SM-26

EXTERNAL SPEAKERS



SP-30 20W rated input
SP-35L 2m cable
SP-35L 6m cable

INTERNAL UNITS



UT-109R Non-rolling type voice scrambler for analog mode
UT-110R Rolling type voice scrambler for analog mode
UT-126H IDAS NXDN digital unit

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