



## 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

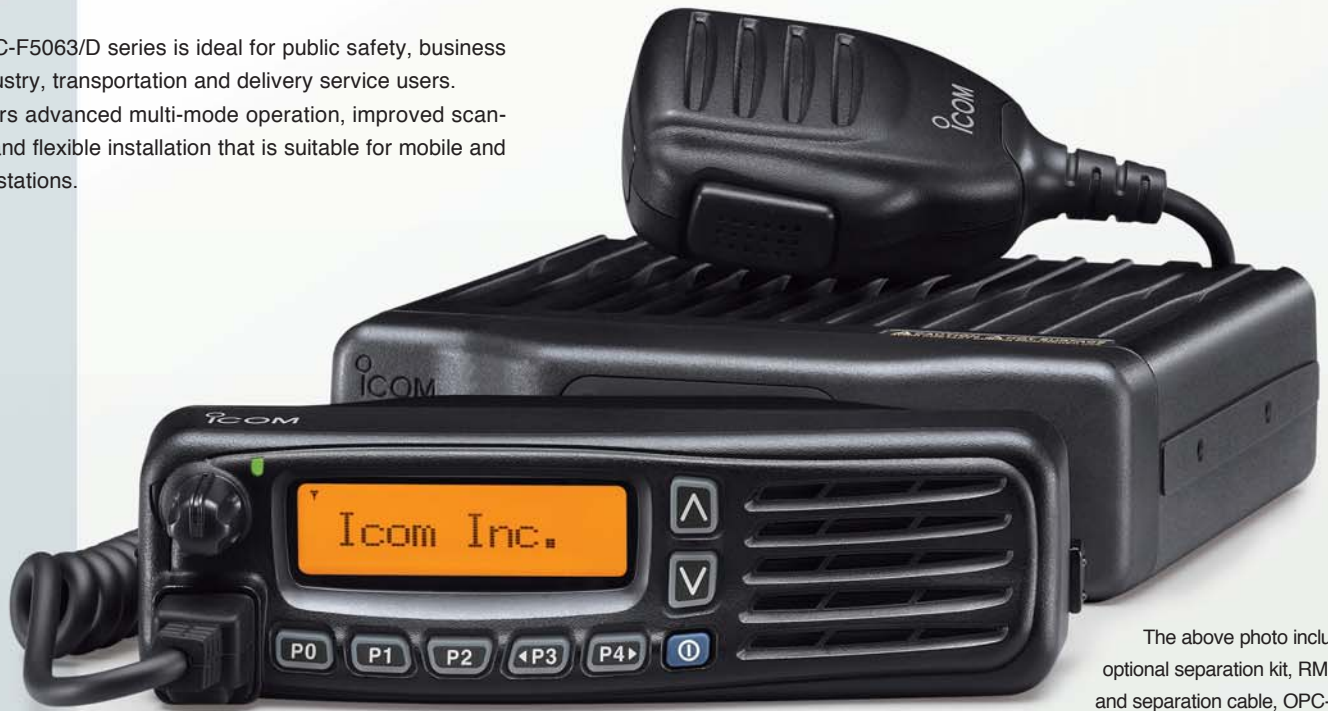
**IDAS™**  
ICOM DIGITAL ADVANCED SYSTEM



# 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                    |
|--|---|--|
| <b>GENERAL</b>                                   |   |  |
| Frequency coverage                               | 136–174MHz                              | 400–470MHz<br>450–512MHz<br>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.)                          | 7A                                      |  |
| Tx High (25W)                                    | 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)<br>(Projections not included) | 160×45×150 mm                           |  |
| Weight (approx.)                                 | 1.3 kg; 2.9 lb                          |  |
| <b>TRANSMITTER</b>                               |   |  |
| 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 |
|--|----------------------------------|---------------------|
| <b>RECEIVER</b>                            |                                  |                     |
| Sensitivity (at 12dB SINAD)<br>(at 5% BER) | 0.25μV typ.<br>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) |
|--------------|---|

\* 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**



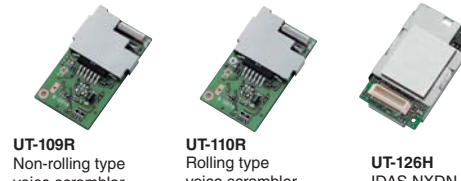
**SM-26**

**EXTERNAL SPEAKERS**



**SP-30** 20W rated input  
**SP-35:** 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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**Icom Inc.** 1-1-32, Kami-minami, Hirano-ku, Osaka 547-0003, Japan Phone: +81 (06) 6793 5302 Fax: +81 (06) 6793 0013 [www.icom.co.jp/world](http://www.icom.co.jp/world) **Count on us!**

**Icom America Inc.**  
12421 Willows Road NE,  
Kirkland, WA 98034, U.S.A.  
Phone : +1 (425) 454-8155  
Fax : +1 (425) 454-1509  
E-mail : sales@icomamerica.com  
URL : <http://www.icomamerica.com>

**Icom (Europe) GmbH**  
Communication Equipment  
Auf der Krautweide 24  
65812 Bad Soden am Taunus, Germany  
Phone : +49 (6196) 76685-0  
Fax : +49 (6196) 76685-50  
E-mail : info@icom-europe.com  
URL : <http://www.icomeurope.com>

**Icom France s.a.s.**  
Zac de la Plaine,  
1 Rue Brindejonc des Moulinais, BP 45804,  
31505 Toulouse Cedex 5, France  
Phone : +33 (5) 61 36 03 03  
Fax : +33 (5) 61 36 03 00  
E-mail : icom@icom-france.com  
URL : <http://www.icom-france.com>

**Asia Icom Inc.**  
6F No. 68, Sec. 1 Cheng-Teh Road,  
Taipei, Taiwan, R.O.C.  
Phone : +886 (02) 2559 1899  
Fax : +886 (02) 2559 1874  
E-mail : sales@asia-icom.com  
URL : <http://www.asia-icom.com>

Your local distributor/dealer:

**Icom Canada**  
Glenwood Centre #150-6165  
Highway 17A, Delta, B.C.,  
V4K 5B8, Canada  
Phone : +1 (604) 952-4266  
Fax : +1 (604) 952-0090  
E-mail : info@icomcanada.com  
URL : <http://www.icomcanada.com>

**Icom Spain S.L.**  
Ctra. Rubi, No. 88 "Edificio Can Castanyer"  
Bajos A 08174, Sant Cugat del Valles,  
Barcelona, Spain  
Phone : +34 (93) 590 26 70  
Fax : +34 (93) 589 04 46  
E-mail : icom@icomspain.com  
URL : <http://www.icomspain.com>

**Icom (Australia) Pty. Ltd.**  
Unit 1 / 103 Garden Road,  
Clayton, VIC 3168 Australia  
Phone : +61 (03) 9549 7500  
Fax : +61 (03) 9549 7505  
E-mail : sales@icom.net.au  
URL : <http://www.icom.net.au>

**Shanghai Icom Ltd.**  
No.101, Building 9, Caifuxingyuan Park,  
No.188 Maoting Road, Chedun Town,  
Songjiang District, Shanghai, 201611, China  
Phone : +86 (021) 6153 2768  
Fax : +86 (021) 5765 9987  
E-mail : bjiacom@bjiacom.com  
URL : <http://www.bjiacom.com>

**Icom Brazil**  
Rua Itororó, 444 Padre Eustáquio  
Belo Horizonte MG,  
CEP: 30720-450, Brazil  
Phone : +55 (31) 3582 8847  
Fax : +55 (31) 3582 8987  
E-mail : sales@icombrazil.com

**Icom (UK) Ltd.**  
Blacksale House, Altira Park,  
Herne Bay, Kent, CT6 6GZ, U.K.  
Phone : +44 (0) 1227 741741  
Fax : +44 (0) 1227 741742  
E-mail : info@icomuk.co.uk  
URL : <http://www.icomuk.co.uk>

**Icom New Zealand**  
39C Rennie Drive, Airport Oaks,  
Auckland, New Zealand  
Phone : +64 (09) 274 4062  
Fax : +64 (09) 274 4708  
E-mail : inquiries@icom.co.nz  
URL : <http://www.icom.co.nz>