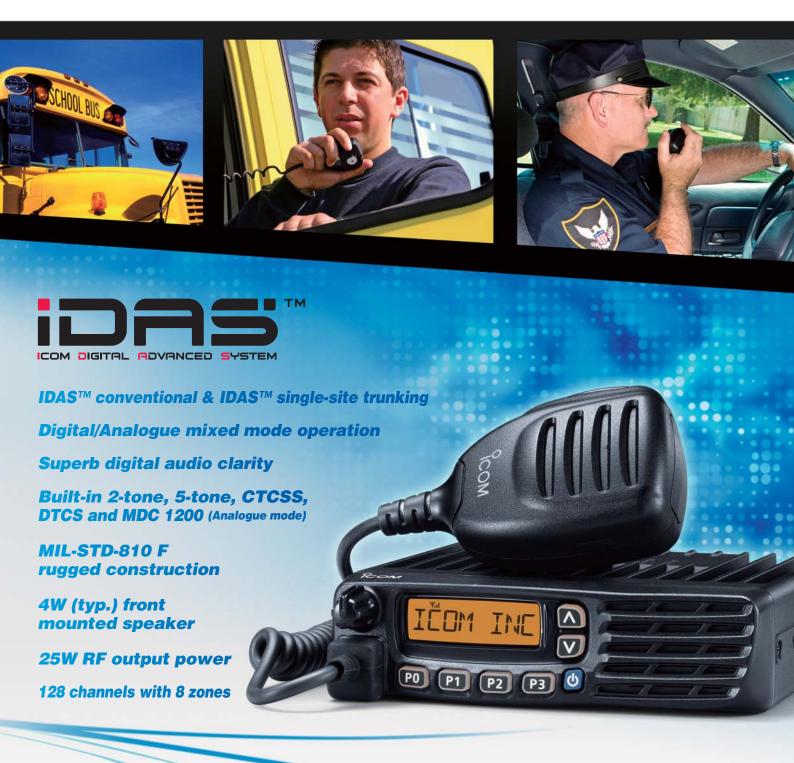




Everything you'd expect in a business radio ... Plus Digital!







More than Just Smooth Digital Migration!

128 channels with 8 zones

An ample 128 channel capacity allow most companies plenty of room to grow. Up to 8 zones lets you group together channels in logical fashion.

Built military rugged!

The tough aluminum die-cast chassis and polycarbonate front panel have been tested to MIL standard 810F specifications.

Compact hand microphone

Select from 5 levels of mic gain, for clearer transmission.

Optional accessory cable

An external GPS receiver, PC or other device can be connected with the optional OPC-2078 (D-sub 25-pin) or OPC-1939 (D-sub 15-pin). Operating channels can be selected from an external device. (up to 16 preprogrammed channels).

* No digital modulation "IN" using accessory cables.





8-character LCD

An 8-character alphanumeric LCD with user-friendly icons shows a variety of information and operating status such as caller's name, received message, etc.

Large programmable buttons

Programmable P0-P3 buttons provide easy access to frequently used functions. Buttons and LCD display are backlit for night time opeartion.

Powerful, front-facing speaker

4 watts (typ.) front facing speaker delivers clear and loud audio throughout a vehicle' s cabin. Digital modulation adds distinct clarity to received voices.

IDAS™ digital mode operation

The IC-F5122D series provides NXDN™ CAI-based IDAS digital mode operation. It is also compatible with IDAS multi-site conventional and IDAS single-site trunking. The following IDAS features are programmable.

- PTT ID Individual/Talkgroup list (Max. 500)
- RAN (Radio Access Number)
- Status • SDM (Short Data Message)
- Radio check (RX) Call alert
- Stun/kill/revive (RX) Remote monitor • Emergency (No ACK)
- Digital voice scrambler
- GPS data (PC and software required to show received position data)

VHF & UHF DIGITAL/ANALOGUE TRANSCEIVERS



Built-in 2-Tone and 5-Tone (Analogue mode)

2-Tone and 5-Tone signalings give you selective calling, quiet stand-by and other convenient functions with programming. The stun/kill functions disable a radio over the air and the revive function restores the stunned radio.

MDC 1200 compatible (Analogue mode)

The following MDC features are available with the built-in MDC signaling.

- Radio check (RX)
- Emergency (No ACK)
- Stun/Revive (RX)
- 500 alias table (Max.)

Scan features

The priority scan allows you to monitor one or two priority channels while scanning other non-priority channels. The TX channel and talk back functions allow you to make a quick response while scanning.

Lone worker function

When the radio is not operated for a preset period, a warning beep will sound, alerting the radio user to check in. If the radio user does not check in before the preset time runs out, then the radio automatically sends out an emergency signal.

Other features (* = analogue only)

- CTCSS/DTCS encoder/decoder*
- BIIS PTT ID transmission*
- 8 DTMF autodial memories
- Microphone hanger action programmable
- Optional DTMF microphone (HM-152T/HM-148T)
- PC programmable
- Power-on password function
- Time out timer
- Talk around function
- Nuisance delete function*
- Forced narrow function*

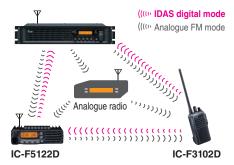
TX: Transmit, RX: Receive



The IC-F5122D series : A multitude of advantages because it's IDAS™

Advantage 1

Digital/analogue mixed mode



The IC-F5122D series can receive both analogue and digital mode signals on a single channel and automatically selects the received mode to reply to the received call, while the talk back timer remains. It's a smart way to grow into digital radio – at your own pace, as your budget and comfort allow.

Advantage 2

Digital and analogue individual/group call



The IC-F5122D series allows you to call individual or group users. The radio automatically sends own ID number when the PTT button is held down. The alias name or individual/group ID is displayed on the LCD while receiving a message allowing you to identify who is calling.

Advantage 3

Status message and short data message

Status message example



Preprogrammed status comments are displayed to match the status num-

Short data message example



The display shows longer messages by automatic vertical scrolling.

Up to 100 status conditions can be set and sent with voice call. Also, you can request another IDAS radio to send their status and receive it.

Up to 100-character of short data message can be sent and received. To send more than 9-character short data message, PC connection is required.

Advantage 4

GPS capability



When used with an external GPS receiver, the IC-F5122D series can transmit accurate position data for use with vehicle management applications.

Advantage 5

Multi-site conventional mode



When using the IC-F5122D series in IDAS multi-site conventional mode, the IC-F5122D can communicate with other IDAS radio users working with other repeater sites and/or virtual radio/PC dispatch stations on the IDAS network.

Advantage 6

IDAS single-site trunking

Ch1 Ch30 Ch30 Ch30 Ch30 Ch30 Ch30

The IC-F5122D series can be used in an IDAS single-site trunking system.

The IDAS trunking system is a distributed system with no dedicated control channel, so more voice traffic channels are available for increased system capacity.

All advantages shown represent possible system configurations. Ask your Icom dealer to configure an IDAS system that works best for you. *Note: Private IP Network or VPN Tunnels through the Internet with static endpoints.

IC-F5122D·IC-F6122D

SPECIFICATIONS

	IC-F5122D	IC-F6122D		
GENERAL				
Frequency coverage	136-174MHz	400–470MHz		
Number of channels	128 channels (8 zones)			
Type of emission	16K0F3E, 14K0F3E, 8K50F3E, 4K00F1D/F1E			
Channel spacing	25/12.5/6.25kHz, 20/12.5/6.25kHz			
Power supply requirement	13.2V DC			
Current drain (approx.)				
Tx 25W	5A	5A		
Rx Max. audio	1.2A	1.2A		
Standby	300mA	300mA		
Antenna impedance	50Ω (SO-239)			
Operating temperature range	−25°C to +55°C			
Dimensions (W×H×D)	150×40×117.5mm			
(Projections not included)				
Weight (approx.)	800g			
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	±1.0ppm			
Spurious emissions	0.25μV (≤1GHz)			
Spurious erriissions	1.0µV (>1GHz)			
Residual modulation	55/53/50dB typ. (Wide/Narrow)			
Audio harmonic distortion	3% typ. (AF 1kHz 40% deviation)			
FSK error	5% Max. (Digital)			
Ext. microphone impedance	600Ω (8-pin modular)			

Measurements made in accordance with EN 300-086, EN 301-166. All stated specifications are subject to change without notice or obligation.

	IC-F5122D	IC-F6122D		
RECEIVER				
Sensitivity (at 20dB SINAD) (at 5% BER)	-4dBμV typ. (emf) -8dBμV typ. (emf)			
Adjacent channel selectivity	80/80/70dB typ. (W/M/N), 65dB typ. (digital)			
Spurious response rejection	70dB min.			
Intermodulation rejection	67dB typ. (W/M/N)			
Hum and noise	55/53/50dB typ. (W/M/N)			
Audio output power (at 5% distortion, 4Ω load)	4W typ.			
Ext. speaker connector	2-conductor 3.5 (d) mm (1/8")/4Ω			

Applicable U.S. Military Specifications

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
Humidity	507.4	_
Settling Dust	510.4	III
Vibration	514.5	I
Shock	516.5	I, IV

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

Supplied Accessories

· Microphone hanger

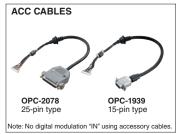
- Hand microphone (HM-152) DC power cable
 - · Key assign stickers
- · Mounting bracket kit

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









lcom, lcom Inc. and the Icom logo are registered trademarks of Icom Incorporated (Japan) in the United States, the United Kingdom, Germany, France, Spain, Russia, Japan and/or other countries. NXDN is a trademark of Icom Incorporated and JVC KENWOOD Corporation, IDAS and IDAS logo are trademarks of Icom Incorporated, All other trademarks are the properties of their respective holders,

ICOM INC. 1-1-32, Kami-minami, Hirano-Ku, Osaka 547-0003, Japan Phone: +81 (06) 6793 5302 Fax: +81 (06) 6793 0013

Icom Canada

Glenwood Centre #150-6165 Highway 17A, Delta, B.C., V4K 5B8, Canada Phone: +1 (604) 952-4266 Fax: +1 (604) 952-0090

Fax: +1 (004) 502-0050 E-mail: info@icomcanada.com URL: http://www.icomcanada.com

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 America Inc. Icom (Europe) GmbH

Icom France s.a.s.

Icom Spain S.L.

Ctra. Rubi, No. 88 "Edificio Can Castanyer" Bajos A 08174, Sant Cugat del Valles, Barcelona. Spain Barcelona, Spain Phone: +34 (93) 590 26 70 Phone: +34 (93) 590 26 70

Fax: +34 (93) 589 04 46

E-mail: icom@icomspain.com

URL: http://www.icomspain.com

Communication Equipment
Auf der Krautweide 24
65812 Bad Soden am Taunus, Germany
Phone: +49 (6196) 76685-0
Fax: +49 (6196) 76685-50
Fax: +49 (6196) 76685-50
Lamali: info@icomeurope.com
URL: http://www.icomeurope.com

Icom Brazil Icom (UK) Ltd. 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

Blacksole 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

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@licom-france.com http://www.icom-france.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

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

Asia Icom Inc.

ASIA Technical Time.

F 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

Shanghai Icom Ltd.

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

Your local distributor/dealer:

Count on us!

www.icom.co.jp/world