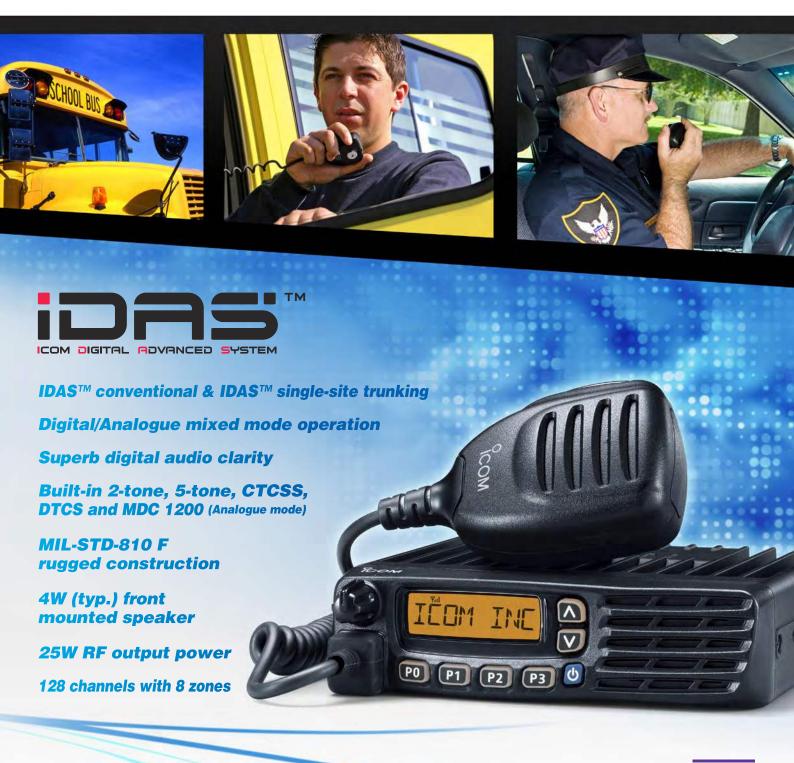


VHF AND UHF DIGITAL/ANALOGUE TRANSCEIVERS



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







Limited functions.

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).



Photo includes optional OPC-2078.

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.

COM

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)
- SDM (Short Data Message) Status
- Radio check (RX) Call alert
- Stun/kill/revive (RX)
 Femote monitor (RX)
 Emergency (No ACK)
 Digital voice scrambler
- GPS data (PC and software required to show received position data)

VHF & UHF DIGITAL/ANALOGUE TRANSCEIVERS

C-F5122 C-F6122

Large programmable buttons Programmable P0-P3 buttons provide

PO

easy access to frequently used functions. Buttons and LCD display are backlit for night time opeartion.

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

MDC 1200 compatible (Analogue mode)

The following MDC features are available

• Emergency (No ACK) • Stun/Revive (RX)

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

Radio check (RX)

with the built-in MDC signaling.

quick response while scanning.

• 500 alias table (Max.)

Scan features

stunned radio.

• PTT ID

P1 P2 P3

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.

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

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



virtual radio/PC dispatcl

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

IC-FR5100 with UC-FR5000

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-F6122

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, 4K00F1E/F1D		
Channel spacing	6.25/12.5/20kHz, 6.25/12.5/25kHz		
PLL channel step	2.5/3.125kHz		
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.)	0.8kg		
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)		
	1.0µV (>1GHz)		
Residual modulation	55/53/50dB typ. (W/M/N)		
Audio harmonic distortion	3% typ.		
(AF 1kHz 40% deviation)			
FSK error	5% max.		
Ext. microphone impedance			
Measurements made in accordance with EN 300-086, EN 301-166.			

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

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

HAND MICROPHONES







Heavy duty microphone with DTMF keypad

IC-F5122D IC-F6122D RECEIVER Sensitivity (at 20dB SINAD) -4dBµV typ. (emf) -8dBµV typ. (emf) (at 5% BER) 80/80/70dB typ. (W/M/N), 75/75/65dB typ. (W/M/N), Adjacent channel selectivity 60dB typ. (digital) 65dB typ. (digital) Spurious response rejection 70dB min. Intermodulation rejection 67dB typ. (W/M/N), 55/53/50dB typ. (W/M/N) Hum and noise 4W typ. Audio output power (at 5% distortion, 4Ω load) Ext. speaker connector 2-conductor 3.5 (d) mm (1/8")/4Ω

Applicable U.S. Military Specifications

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	Ι	
Solar Radiation	505.4	Ι	
Humidity	507.4	-	
Settling Dust	510.4	III	
Vibration	514.5	Ι	
Shock	516.5	I, IV	
Also meets equivalent MIL-STD-810-C, -D and -E.			

EXTERNAL SPEAKERS

Supplied Accessories

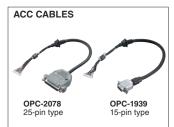
DESKTOP MICROPHONE

• Hand microphone (HM-152) • DC power cable

 Microphone hanger Key assign stickers · Mounting bracket kit

SM-26





lcom, lcom lnc. and the lcom logo are registered trademarks of lcom Incorporated (Japan) in the United States, the United Kingdom, Germany, France, Spain, Russia, Japan and/or other countries. NXDN is a trademark of lcom Incorporated and 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 America Inc. 2380 116th Avenue NE, Bellevue, WA 98004, U.S.A. Phone : +1 (425) 454-8155 Fax : +1 (425) 454-1509 E-mail : sales@icomamerica.com URL : http://www.icomamerica.com

Icom Canada

Glenwood Centre #150-6165 Highway 17, Delta, B.C., V4K 5B8, Canada Phone : +1 (604) 952-4266 Fax : +1 (604) 952-090 Engli Jinf @ispragondo.com Fax :+1 (004) 902-0050 E-mail : info@icomcanada.com URL : http://www.icomcanada.com

Icom (Australia) Pty. Ltd. Icom Spain S.L. Unit 1 / 103 Garden Road, Clayton, VIC 3168 Australia Phone : +61 (03) 9549 7500 Fax : +61 (03) 9549 7505

F-mail : sales@icom net a URL : http://www.icom.net.au Icom New Zealand 146A Harris Road, East Tamaki, 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

Icom (Europe) GmbH

Communication Equipment Auf der Krautweide 24 65812 Bad Soden am Tanuns, Germany Phone : +49 (6196) 76685-50 Ermail : inflo@icomeurope.com URL : http://www.icomeurope.com

Ctra. Rubi, No. 88 "Edificio Can Castanyer" Bajos A 08174, Sant Cugat del Valles, Barcelona, Spain Phone: +34 (93) 550 26 70 Fax +34 (93) 589 04 46 E-mail : icom@icomspain.com URL : http://www.icomspain.com

Icom (UK) Ltd.

Blacksole House, Altira Park, Herne Bay, Kent, CT6 6GZ, U.K. Phone : +44 (01227) 741741 Fax : +44 (01227) 741742 E-mail : info@icomuk.co.uk URL : http://www.icomuk.co.uk UBL

Icom France s.a.s.

 Zac de la Plaine,
 1

 1
 Rue Brindejonc des Moulinais, BP 45804,

 31505 Toulouse Cedex 5, France
 9

 Phone :+33 (5) 61 36 03 00
 7

 Famil : icom@icom/france.com
 URL : http://www.icom-france.com

Icom Polska

81-850 Sopot, ul. 3 Maja 54, Poland Phone: +48 (58) 550 7135 Fax : +48 (58) 551 0484 E-mail : icompolska@icompolska.com.pl UBL : http://www.icompolska.com.pl

www.icom.co.jp/world

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 mail : sales@asia-icom.com RL : http://www.asia-icom.com URL

Beijing Icom Ltd.

10C07, Long Silver Mansion, No.88, Yong Ding Road, Haidian District, Beijing, 100039, China Phone: +86 (010) 5889 5391/5392/5393 Fax : +86 (010) 5889 5395 E-mail : bjicom@bjicom.com URL : http://www.bjicom.com

Count on us!

Your local distributor/dealer: