

IC-M421

**DSC Built-in
Class D**

Waterproof
1m depth for 30 minutes



One Powerful, Compact Class D DSC Radio

- Built-in Class D DSC
- Individual, Group & All Ships Call
- Position Request & Position Report with External GPS Receiver Connection
- Waterproof Construction, Including Microphone (1m depth for 30 minutes*)



- Large Full Dot-matrix LCD with 10 Character Scrolling Channel Name
- Simple Operation with Large Buttons
- Simple Tag Scanning Function
- Loud Speaker Audio

* Equivalent to JIS Grade 7 or IPX7 of the corresponding international standard IEC 60529 (2001).

Icom Inc.

Built-in Class D DSC

The IC-M421 has a built-in Ch 70 (DSC channel) receiver, which monitors Ch 70 activity, even while you are receiving another channel. In an emergency situation, an automated distress call can be sent at the touch of a button.

Digital selective calling features

The DSC uses a unique ID (MMSI code) similar to a telephone number. So you can make a contact with the intended ID station or group directly or with all ships in the area. When connected to an external GPS receiver, the position request and position report functions allow you to exchange the ship's position information. The polling (request/reply) function checks whether a specific ship is in the communication range. A total of 100 address IDs can be programmed with 10-character address name and up to 40 received DSC messages (20 distress and 20 other calls) are stored.

Large LCD with Dot-matrix Characters

The IC-M421 has a full dot-matrix display with up to 168-character capability that allows you to see a host of information such as channel number, channel name, position and DSC data etc. With the backlit display, large buttons and knobs, the IC-M421 is easy to operate, even at night.

Waterproof Protection

The IC-M421, including the microphone, has waterproof protection, equivalent to JIS waterproof specification Grade 7*.

* Equivalent to IPX7 of the corresponding international standard IEC 60529 (2001). 1m depth for 30 minutes; except cables.

Loud Speaker Audio

The speaker's high sound pressure level delivers loud and clear reception, even over background noise. The microphone is tuned to pick up voice, while reducing ambient noise.

And More

- Standard remote function microphone for convenient channel and transmit power selection
- Up to 70 programmable channels
- Simple and easy tag scanning system
- Dual watch and Tri-watch functions
- External speaker connector
- ATIS encoder (Dutch and German versions only)
- Low voltage indicator for low battery alert
- UK marina channels included (UK version only)

OPTIONS



MB-69
FLUSH MOUNT KIT
For flush-mounting the IC-M421 to a flat surface such as an instrument control panel.

HM-150B/150SW HAND MICROPHONE
White and black are available. Same as supplied.

SPECIFICATIONS

GENERAL

- Frequency range* : Tx 156.000–161.450MHz
Rx 156.000–163.425MHz
Ch. 70 Rx 156.525MHz
* Frequency range that may be subject to licensing conditions.
- Type of emission : 16K0G3E (FM), 16K0G2B (DSC)
- Usable channels : INT, USA* channels
* Available depending on version
- Power supply : 13.8V DC (10.8 to 15.6V DC)
- Current drain (at 13.8V DC):
Tx high (25W) 5.5A Max.
Rx Max. audio 1.5A Max.
- Operating temp. range: -20°C to +60°C
- Antenna connector : SO-239 (50Ω)
- Dimensions : 164(W)×78(H)×139.5(D) mm (projections not included)
- Weight (approx.) : 1.15kg
- GPS interface : NMEA0183 ver 2.0, 3.01
RMC, GGA, GNS, GLL sentence.

Supplied accessories:

- Hand microphone
- DC power cable
- RCA connector cable
- Mounting bracket kit
- Microphone hanger

TRANSMITTER

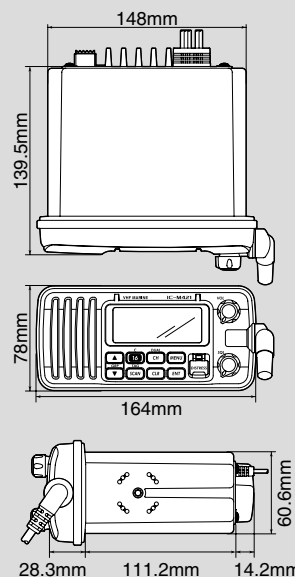
- Output power : 25W/1W (at 13.8V DC)
- Max. Freq. deviation: ±5.0kHz
- Frequency stability : Less than ±1.5kHz
- Spurious emissions : Less than 0.25μW
- Adjacent Ch. power : More than 70dB
- Audio harmonic distortion: Less than 10% (at 1kHz, 60% deviation)
- Residual modulation: More than 40dB

RECEIVER

- Sensitivity : -2dBμ emf typical (20dB SINAD)
- Squelch sensitivity : Less than 0dBμ emf
- Adj. Ch. selectivity : More than 70dB
- Spurious response : More than 70dB
- Intermodulation : More than 68dB
- Hum and noise : More than 40dB
- Audio output power : More than 2W (at 10% distortion with a 4Ω load)

Measurements made in accordance with EN 301 025.
All stated specifications are subject to change without notice or obligation.

DIMENSIONS



Icom Inc. 1-1-32, Kamiminami, Hirano-ku, Osaka 547-0003, Japan Phone: +81 (06) 6793 5302 Fax: +81 (06) 6793 0013 URL: <http://www.icom.co.jp/world/index.html>

Count on us!

Icom America Inc.
2380 116th Avenue N.E., 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>
<Customer Service> Phone: +1 (425) 454-7619

Icom Canada
Glenwood Centre #150-6165 Highway 17, 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 (Australia) Pty. Ltd.
A.B.N. 88 006 092 575
290-294 Albert Street, Brunswick, Victoria, 3056, Australia
Phone: +61 (03) 9387 0666
Fax: +61 (03) 9387 0022
E-mail: sales@icom.net.au
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 Himmelgeister Str. 100, D-40225 Düsseldorf, Germany
Phone: +49 (0211) 346047
Fax: +49 (0211) 333639
E-mail: info@icom-europe.com
URL: <http://www.icom-europe.com>

Icom Spain S.L.
C/ta. de Gracia a Manresa Km. 14,750 08190 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 (UK) Ltd.
Unit 9, Sea St., Herne Bay, Kent, CT6 8LD, U.K.
Phone: +44 (01227) 741741
Fax: +44 (01227) 741742
E-mail: info@icomuk.co.uk
URL: <http://www.icomuk.co.uk>

Icom France S.a
Zac de la Plaine, 1, Rue Brindejonc des Moulinais BP 5804, 31505 Toulouse Cedex, 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>

Icom Polska
Sopot, 3 maja 54, Poland
Phone: +48 (58) 550 7135
Fax: +48 (58) 551 0484
E-mail: icompolkska@icompolkska.com.pl
URL: <http://www.icompolkska.com.pl>

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>

Beijing Icom Ltd.
1305, Wanshang Plaza, Shijingshan Road, Beijing, China
Phone: +86 (010) 6866 6337
Fax: +86 (010) 6866 3553
E-mail: bjicom@bjicom.com
URL: <http://www.bjicom.com>



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