

# 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

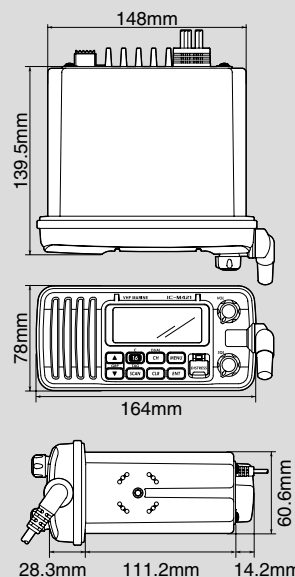
- Output power : 25W/1W (at 13.8V DC)
- Max. Freq. deviation: ±5.0kHz
- Frequency stability : Less than ±1.5kHz
- Spurious emissions : Less than 0.25μW
- Adjacent Ch. power : More than 70dB
- Audio harmonic distortion: Less than 10% (at 1kHz, 60% deviation)
- Residual modulation: More than 40dB

### 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



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