

# DSC3 VHF3

## *The next generation VHF Digital Selective Calling system for GMDSS*



*ICS Electronics Ltd have a world-wide reputation for the design and manufacture of GMDSS equipment including DSC systems: Supplying coast stations, commercial ships and navies throughout the world.*

*Ease of use is the most prominent feature of our equipment. This is reflected in both elements of our system, the VHF3 radio and the DSC3 DSC controller.*

*The DSC3 meets the new EN 301 025 specification for small craft DSC.*

*The GMDSS coast station infrastructure is now in place in many countries.*



From 1st February 1999, marine radio communication will change forever. Ships and an increasing number of coastguards and coast stations will cease to monitor traditional distress frequencies including Channel 16. Under the Global Distress and Safety System (GMDSS), a fully automatic system will become operational. At the touch of a button a distress message with an accurate GPS position can be sent using Digital Selective Calling (DSC).

Everyday radio operation will also be improved. Watchkeeping on channel 16 will be consigned to history. If the shore or another vessel needs to communicate with you for any reason, an alarm will sound. You will no longer need to listen for voice calls.

### **VHF 3 FEATURES**

- Water resistant fascia
- Housed in a tough aluminium case
- Precise, rotary channel selection knob
- Backlit LCD featuring large 14 segment numerals with legends below provides operational status information
- 55 international channels
- 16 programmable channels
- Dual watch
- All channel/memory scan
- Backlit keys
- Approved to ETS 300 167
- Fist microphone as standard
- 'U' bracket mounting kit

### **FUNCTIONS**

- Distress alert and reception
- All ships urgency and safety
- Routine ship-to-ship and ship-to-shore calling
- Routine ship-to-group calling

### **OPERATION**

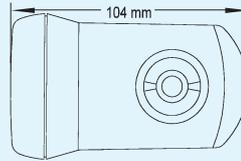
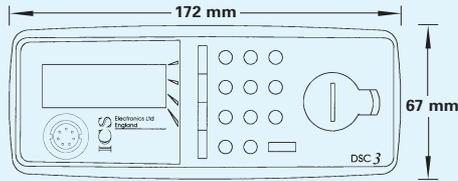
DSC operation is as simple as using a mobile phone. Select the required function using the four menu selection buttons. A separate distress button requiring two actions makes it difficult to send a false distress alert. A countdown is provided during which time the distress call can be cancelled.

### **DSC 3 FEATURES**

- Water resistant fascia
- 4 line liquid crystal display
- Telephone style keypad
- Directory for most frequently called MMSI numbers
- Speed dialling
- Brightness control of keypad and LCD display
- Dedicated DISTRESS button
- Recall of received messages
- GPS input for automatic position update
- Audible and visual alarms to alert the operator to incoming calls
- Approved to EN 301 025
- 'U' bracket mounting kit

*Can you afford to set sail without it?*

# DSC3 Technical Specifications



## DISPLAY

122 dots x 32 dots  
54.8mm x 19.1mm viewing area  
Blue dots on grey background with yellow/green LED backlight

## CONTROLS

Telephone style keypad  
Four menu programming keys  
Distress button with safety cover

## CONNECTIONS

Front 7 way socket for handset/microphone  
Rear cable with 7 way socket for VHF/DSC connection

Rear cable for GPS input

## POWER

Power supplied from VHF radio

## GPS

Isolated IEC 1162 input (compatible with NMEA 0183)  
Supports CGA, GLL version 2, RMC, VTG and ZDA

## DIMENSIONS

172mm x 67mm x 104mm

## WEIGHT

0.5kg

## MOUNTING

Desk-top, bulkhead or panel mount

## TYPE APPROVAL STANDARDS

Meets EN301 025, Small Craft DSC specification  
Meets IEC945 environmental test specification

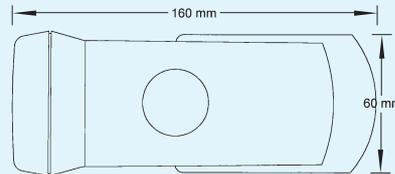
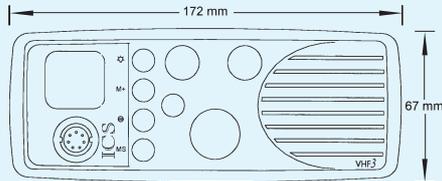
## OPERATING TEMPERATURE RANGE

-15°C to + 55°C

## HUMIDITY

0 to 95% non-condensing

# VHF3 Technical Specifications



## GENERAL

Power supply 12V DC (10.8V - 15.5V DC)  
Channels 55 Simplex and semi-duplex (plus special regional channels)

## TRANSMIT

Frequency Range 156-163 MHz  
Power output 25W or 1W  
Power consumption 5.5A at 25W  
1.3A at 1W  
Hum/noise <-40dB  
Spurious/harmonic emissions <-70dBc  
Modulation ±5kHz

## RECEIVE

Audio output power 2W (8 ohm @ 10% distortion)  
Power consumption 300mA (full volume with illumination)  
180mA (squelched without illumination)  
Sensitivity (emf) <0.5µV (for 20dB SINAD)  
Hum/noise <-40dB  
Temp. tolerance -15°C to + 55°C  
Spurious/harmonic emissions <-2nW  
Adjacent channel selectivity 70dB  
Intermodulation 70dB

## Options

### DSC3/301.00 FLUSH MOUNTING KIT

84mm x 210mm (H x W) One required for each unit

### DSC3/303.00 HANDSET AND CRADLE

204mm x 61mm x 28mm (L x W x D) Supplied in place of fist mic.

Available from:

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ICS Electronics Ltd,

Unit V, Rudford Industrial Estate, Ford, Arundel, West Sussex BN18 0BD, England.

Telephone: +44 (0) 1903 731101 Facsimile: +44 (0) 1903 731105 Email: icselectronics@compuserve.com