

MARINE COMMUNICATION AND NAVIGATION EQUIPMENT

VHF DSC (Class-B)

VHF DSC (Class-B) (1).Main function 1.General call 2.DSC System Distress call Distress acknowledgement call Distress relay call Individual call Position request call...

ISO9001 Supplier

Class Certificate

Export Supply



Key Highlights

|               |                                                                                   |
|---------------|-----------------------------------------------------------------------------------|
| Category      | Marine Communication And Navigation Equipment                                     |
| Standard      | EN                                                                                |
| Weight / Size | 72 (2).Technical Specifications<br>1.Overall Specifications<br>Frequency Range... |
| Certificate   | CCS                                                                               |

We can supply according to your requirement, drawings, class certificate needs, and delivery schedule.

| Technical Specifications |                                               |               |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                |
|--------------------------|-----------------------------------------------|---------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Category                 | Marine Communication And Navigation Equipment | Model / SKU   | VHF-DSC-Class-B                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                |
| Standard                 | EN                                            | Weight / Size | 72 (2).Technical Specifications<br>1.Overall Specifications Frequency Range : Tx : 156.025-157.425MHz Rx : 156.050-163.275MHz Modulation method : FM ( 16K0G3E ) DSC ( 16K0G2B ) Receiving system : Super heterodyne double conversion Frequency tolerance : $\pm 10\text{ppm}$ ( -20°C+60°C ) Power Supply :DC13.8V ( $\pm 15\%$ ) Antenna impedance : 50 $\Omega$ Output impedance : ( Audio ) 8 $\Omega$ Input impedance : ( Microphone ) 2K $\Omega$ Dimensions : W ( 153 ) ×H ( 67 ) ×D ( 132 ) Weight : 830g ( $\pm 2\%$ ) 2.Transmitter Specifications Output power : 25W / 1W Modulation limit : $\leq \pm 5\text{KHz}$ Modulation sensitivity : 17mV $\pm 10\text{mV}$ Audio distortion : $\leq 7\%$ Adjacent channel selectivity : $\geq 70\text{dB}$ Spurious emissions : $\leq -53\text{dB}$ Residual modulation : |
| Certificate              | CCS                                           | Warranty      | 12 Months unless specified otherwise                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           |
| Origin                   | China                                         |               |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                |

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|----------|---------------------------------------------------------------------------------------------------------------|--------------------------------------------------------------------------------------------------------|

## VHF DSC (Class-B)

### (1).Main function

- 1.General call
- 2.DSC System
- Distress call
- Distress acknowledgement call
- Distress relay call
- Individual call
- Position request call
- Position to send call

Individual acknowledgement call  
Group Call  
All ships call  
Sea area call  
Semi-automatic telephone service  
DSC test  
3.Collision Avoidance alarm display  
4.Weather alarm (American weather Bureau)  
5.Priority scan  
6.Dual-Watch  
7.Thr- Watch  
8.Timing clock alarm  
9.64 waypoints stored  
10.64 common using ID storage  
11.Navigation function  
12.Automatically record incoming messages  
Distress messages: 32  
Other messages: 32  
Collision Avoidance alarm messages: 72

## **(2). Technical Specifications**

### **1.Overall Specifications**

Frequency Range : Tx : 156.025-157.425MHz  
Rx : 156.050-163.275MHz  
Modulation method : FM ( 16K0G3E ) DSC ( 16K0G2B )  
Receiving system : Super heterodyne double conversion  
Frequency tolerance :  $\pm 10\text{ppm}$  (  $-20^{\circ}\text{C}+60^{\circ}\text{C}$  )  
Power Supply :DC13.8V (  $\pm 15\%$  )  
Antenna impedance :  $50\Omega$   
Output impedance : ( Audio )  $8\Omega$   
Input impedance : ( Microphone )  $2K\Omega$   
Dimensions : W ( 153 )  $\times$  H ( 67 )  $\times$  D ( 132 )  
Weight : 830g (  $\pm 2\%$  )

### **2.Transmitter Specifications**

Output power : 25W / 1W  
Modulation limit :  $\leq \pm 5\text{KHz}$   
Modulation sensitivity :  $17\text{mV} \pm 10\text{mV}$   
Audio distortion :  $\leq 7\%$   
Adjacent channel selectivity :  $\geq 70\text{dB}$   
Spurious emissions :  $\leq -53\text{dB}$

## **Residual modulation :**

$\geq 40\text{dB}$

Current consumption : High power  $\leq 6.0\text{A}$  , Low power  $\leq 1.5\text{A}$  ( DC13.8V )

### **3.Receiver Specifications**

Reference sensitivity :  $\leq 0.25\mu\text{V}$  ( 12dB SINAD )  
Squelch sensitivity :  $\leq 0.15\mu\text{V}$   
Modulation receiver bandwidth :  $\geq 2 \times 5\text{KHz}$

Deep squelch blocking threshold :  $\geq 5\text{KHz}$   
Adjacent channel selectivity :  $\geq 65\text{dB}$   
Intermodulation rejection ratio :  $\geq 58\text{dB}$   
Spurious response :  $\geq 65\text{dB}$   
Audio output power :  $\geq 2\text{W}$  (  $8\Omega$  )  
Audio distortion :  $\leq 7\%$   
GPS Output format : NMEA0183 ( 2.0 / 3.01 )

**Note:** Specifications are subject to change without notice.