

# SEAWATCH 7001VR3

## VHF/FM 3 Channel Marine Guard Receiver



This new model to the SEAWATCH 7001C series, the 7001VR3 is designed to provide independent, real-time aural monitoring of three VHF FM Marine voice channels. This model incorporates three separate VHF FM receivers; one fix-tuned to Marine channel 13, a second fix-tuned to Marine channel 16 and the third can be tuned and set to any USA/Int'l Marine channel. Front panel controls include squelch and volume for each receiver and channel selection for the tunable receiver. Indicators include AOS/LOS – a red/green led – for each receiver and a three-digit channel display for the tunable receiver.

All three receivers are housed in a compact trunion-mounted box designed for bridge or bulkhead mounting. Standard antenna connection is a loss compensated single antenna input. The 7001VR3 requires 13.6 VDC nominal for power and is also available with an external power cube for 120 VAC applications. External speakers are required.

### Front Panel:

- Squelch control for Receiver 1 (ch 13)
- Volume control for Receiver 1 (ch 13)
- AOS/LOS indicator for Receiver 1
- Squelch control for Receiver 2 (ch 16)
- Volume control for Receiver 2 (ch 16)
- AOS/LOS indicator for Receiver 2
- Squelch control for Receiver 3
- Volume control for Receiver 3
- Channel selector for Receiver 3
- Channel display (3-digit) for Receiver 3
- AOS/LOS indicator for Receiver 3
- Dimmer control

### Rear Panel:

- Audio Output for Receiver 1 (ch 13)
- VDR Output for Receiver 1 (ch 13)
- Audio Output for Receiver 2 (ch 16)
- VDR Output for Receiver 2 (ch 16)
- Audio Output for Receiver 3
- VDR Output for Receiver 3
- Power input connector

... **Designed for safety and routine monitoring operations.**

# Preliminary Specifications:

## RECEIVER 1:

### **Frequency:**

156.650 MHz  
Marine Channel 13

### **Sensitivity:**

Less than .35uV for 12dB SINAD  
Less than .45uV for 20dB quieting

### **Selectivity:**

At least 80dB at 25 KHz  
85dB at 50 KHz or greater

### **IM Ratio:**

At least 80dB

### **Spurious and Image Rejection:**

At least 80dB

### **Audio Output:**

1 mW nominal at 600 Ohms

### **Audio Distortion:**

Less than 10%

## GENERAL:

### **Input Voltage:**

12 VDC +30% - 10% (13.8V nominal)  
Negative ground  
(Optional power cube for 120 VAC)

### **Dimensions**

7"W x 2.2"H x 8.6"D

### **VDR and Audio Line Output:**

600 Ohm Balanced or Un-balanced  
TX and RX line out @ 0.775V RMS

### **Input /Output Ports:**

RS-232 program Port,  
SEABUSS II, Line Audio

## RECEIVER 2:

### **Frequency:**

156.800 MHz  
Marine Channel 16

### **Sensitivity:**

Less than .35uV for 12dB SINAD  
Less than .45uV for 20dB quieting

### **Selectivity:**

At least 80dB at 25 KHz  
85dB at 50 KHz or greater

### **IM Ratio:**

At least 80dB

### **Spurious and Image Rejection:**

At least 80dB

### **Audio Output:**

1 mW nominal at 600 Ohms

### **Audio Distortion:**

Less than 10%

## RECEIVER 3:

### **Frequency Range:**

155 to 163.6 MHz  
Programmed

### **Sensitivity:**

Less than .35uV for 12dB SINAD  
Less than .45uV for 20dB quieting

### **Selectivity:**

At least 80dB at 25 KHz  
85dB at 50 KHz or greater

### **IM Ratio:**

At least 80dB

### **Spurious and Image Rejection:**

At least 80dB

### **Audio Output:**

1 mW nominal at 600 Ohms

### **Audio Distortion:**

Less than 10%

### **Number of Channels:**

All USA, Canadian and International  
Channels

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