

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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