

**ALDEN**



**AE-3300**

# MARINEFAX & NAVTEX RECEIVER

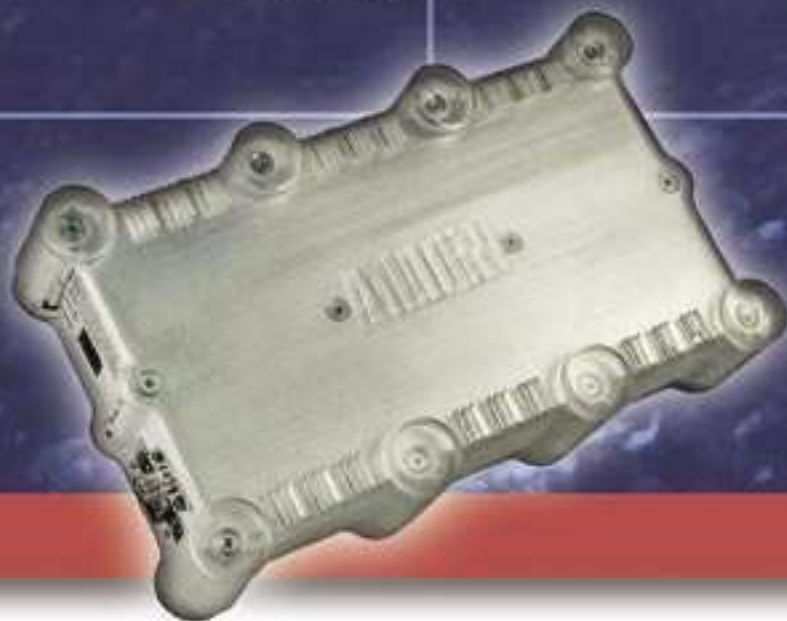
Software-Defined Receiver for Marine Applications

Now you can receive on your PC:

- > Weatherfax Charts
- > NAVTEX Messages & Alerts
- > DSC & RTTY

The AE-3300 standard package includes:

- > AE-3300 receiver
- > Application software
- > User's manual
- > Start-up test antenna
- > BNC-to-SMA adapter
- > USB interface cable
- > Low-noise AC/DC linear power supply
- > Fused fly lead for alternative DC power



[www.alden.com](http://www.alden.com)

# ALDEN AE-3300 MARINE NAVTEX & WEATHERFAX RECEIVER

The ALDEN AE-3300 is a high-performance receiver specially developed for marine applications. It covers the HF and MF frequency range from 9 KHz to 30 MHz, and contains a number of decoding facilities including HF Weather-Fax, NAVTEX, DSC and RTTY (Telex), as well as the standard AM, SSB and CW radio modes. With all its functions and facilities the AE-3300 is truly a complete marine information center. In addition, a GPS option is available which integrates the receiver with a high-resolution global mapping facility that allows you to track your position with relative ease.

This high-performance marine receiver is extremely sensitive and optimized to work with relatively short antennas, typically found in a marine environment, yet featuring a respectable dynamic range making the receiver resistant to strong signal overload.

The receiver comes in a small enclosure which connects to an IBM-compatible PC (desktop or laptop) via the supplied USB cable. It is extremely user-friendly and easy to install in any yacht or vessel. An external antenna connects to the receiver.

## The AE-3300's Features & Capabilities are Unique

- Frequency range 9kHz to 30MHz
- AM, LSB, USB, DSB, CW conventional modes
- DSC Digital Selective Calling (used in marine communications)
- HF Weather-Fax – to receive weather charts 50+ sites
- NAVTEX – including navigational messages, storm warnings, search & rescue information, and optional messages
- RTTY – to receive alphanumeric text messages, coded weather reports, and news agency reports
- High sensitivity
- Excellent dynamic range
- Real-time spectrum analyzer
- Spot-on tuning in 1 Hz steps
- Continuously variable bandwidth
- Automatic scheduling, recording & playback GPS option
- Small size and easy installation



SAMPLE HF WEATHER-FAX SCREEN



SAMPLE NAVTEX SCREEN

## ALDEN AE-3300 TECHNICAL SPECS

<b>Receiver Type</b>	DDS-based dual-conversion superheterodyne with software-defined last IF stage and demodulator		
<b>Frequency Range</b>	9 kHz - 30 MHz		
<b>Tuning Resolution</b>	1 Hz		
<b>Mode</b>	AM, LSB, USB, DSB, CW, DSC, NAVTEX, HF FAX, TELEX		
<b>Spurious-free Dynamic Range</b>	93 dB		
<b>Image Rejection</b>	60 dB		
<b>RSSI Accuracy</b>	5 dB		
<b>RSSI Sensitivity</b>	1 $\mu$ V		
<b>Selectivity</b>	Continuously adjustable 100-15000 Hz		
<b>Sensitivity (10dB S+N/N)</b>			
Mode:	0.1-0.5 MHz	0.5-2.0 MHz	2.0-30 MHz
AM*:	2.0 $\mu$ V	0.5 $\mu$ V	0.4 $\mu$ V
LSB, USB:	0.7 $\mu$ V	0.3 $\mu$ V	0.2 $\mu$ V
CW:	0.3 $\mu$ V	0.2 $\mu$ V	0.1 $\mu$ V
<i>*80% modulation</i>			
<b>Intermediate Frequencies</b>	IF1: 45 MHz IF2: 12 kHz		
<b>Frequency Stability</b>	10 ppm (0 to 60° C)		
<b>Antenna Input</b>	50 ohm (SMA connector)		
<b>Output</b>	USB (1.0 and 2.0 compatible)		
<b>Dimensions</b>			
	Length: 164 mm (6.46")	Width: 96 mm (3.78")	Height: 41 mm (1.61")
<b>Weight</b>	467 g (16.40 oz)		

*Specifications subject to change without notice due to continuous product development & improvement.*

## Optional Accessories Offered Separately

- Active antenna
- GPS receiver option
- Wall mounting bracket