ALDEN
WeatherSystems

AE-2000

MARINE NAVTEX RECEIVER

Professional, rugged, and reliable

> Wide dynamic range

> Large 8-inch TFT LCD color display

> Output Messages via three external interface ports

The AE-2000 standard package includes:

> AE-2000 NAVTEX receiver
> User's manual
> Active antenna
> Mounting bracket
> DC cable

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ALDEN AE-2000 MARINE NAVTEX RECEIVER

The ALDEN AE-2000 is a dedicated NAVTEX receiver that is fully compliant with the International Maritime Organization (IMO) Resolution MSC.148 (77) which came into effect on July 1, 2005. This is a professional, rugged, and reliable unit suitable for installation in any marine vessel, from yachts to large freighters or tankers.

This high-performance NAVTEX receiver is extremely sensitive and optimized to work with the active whip antenna normally provided with it. It features a wide dynamic range making the receiver resistant to strong signal overload.

One of the unique features of this receiver is its large 8 inch TFT LCD color display. The AE-2000 shows search and rescue (SAR) messages in red color to differentiate these distress messages from navigational or meteorological warnings. For ease of reading, three colors can be selected for the screen background, making it easy for the user to read under any ambient lighting condition.

In compliance with the latest IMO regulations the AE-2000 features two independently operating receivers. These receivers allow for the simultaneous reception of the standard 518 KHz NAVTEX signal, and either the 490 KHz or 4,209.5 KHz that is broadcast in some parts of the world. If both the domestic transmission and the international one occur at the same time, the AE-2000 displays the 518 KHz channel messages and stores the messages from the other band for review at a later time. Pressing a single key allows the operator to switch between the main channel and the second channel text pages.

The NAVTEX message screen consists of 18 lines and 40 characters/line plus two status and command lines for user interface, displaying the text with a minimum of carriage returns and line feeds. The large 1.3″ high characters (2 types of Fonts are selectable), provide enhanced visibility. Making it easier for the user to read the NAVTEX messages even from a distance of several meters away.

Received messages are stored in non-volatile memory and can be recalled and displayed on the screen line by line or message by message using dedicated scroll keys. After a specified (user configurable) time period the messages are automatically erased. However, the user can choose to protect important messages from automatic deletion. In addition, messages are searchable by station ID and/or by message category. Messages can also be

output from a total of three external interface ports for printing, for processing by other on-board systems, or for re-transmission to shore. Alarm outputs are also available from a dedicated connector.

A 1.2 meter three-frequency active antenna is included as a standard accessory. Specially designed front-end filtering allows all NAVTEX channels to be received on the same antenna without cross-channel interference and without sacrificing receiver performance.

ALDEN AE-2000 TECHNICAL SPECS

Frequencies	518 KHz (first receiver) 490 KHz & 4,209.5 KHz (second **receiver)**
Input Impedance	50 Ohms (active antenna)
Antenna	3-frequency active antenna, with 1.2 meter whip
Sensitivity	Better than 1μV with 50 Ohm antenna
RF Input Protection	30 Vrms
Receiving Emission Mode	F1B with FEC
Display Screen	8" Color TFT LCD
Text Display	40 characters per line, 18 lines
FONT Size	5 mm (approx.)
Message Storage	200 Messages (avg.)
Alarms	Audible and visual alarm for message types A, B & L; message ID and red text for message type D
Alarm Output	2 Pairs of relay contacts
I/O Interfaces	RS-232 (printer), RS-422 (IBS/INS), NMEA-0182/IEC61162-1
Power Supply	24 VDC (nominal), 15W
Cabinet Size	**Depth:** 135 mm (5.31") **Width:** 225/245 mm (8.86"/9.65") **Height:** 225/271 mm (8.86"/10.67")
Weight	3.3 Kg (7.3 lbs) with bracket
Operating Temperature	-15 to +55 0 C (23 to 130 0 F)

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

WHAT IS INCLUDED WITH THE SYSTEM?

The standard AE-2000 package includes:

- AE-2000 NAVTEX receiver
- Active antenna
- DC cable
- User's manual
- Mounting bracket

A thermal printer is available as an additional option.