



2-Channel 3-Frequency NAVTEX Receiver

# Model NT-2000

## **MAIN FEATURES:**

#### Fully Compliant with IMO Resolution MSC.148(77)

The NT-2000 is designed to fully comply with the new NAVTEX standards specified in the IMO Resolution MSC. 148(77) which came into effect on July 1, 2005.

# 8-inch Color LCD Display

An 8-inch color TFT LCD replaces recording paper. Taking full advantage of a color display, the NT-2000 shows search and rescue (SAR) messages in red to clearly differentiate distress messages from navigational or meteorological warnings. Three colors are selectable for the screen background for ease-of-reading, easy-on-the-eye operation under all ambient lighting conditions.

#### Simultaneous Reception of 518 and 490 or 4209.5 kHz

Two independently operating receivers, one with a frequency converter, are built-in to simultaneously receive international (518 kHz) and either of 490 kHz or 4209.5 kHz domestic transmissions. If both international and domestic broadcasts occur at the same time, the NT-2000 displays international channel messages, while storing local channel messages in memory for reviewing at a later time. A single keypress switches the first and second channel text pages.

### Large Character Size, 40 Characters/Line, 20 Lines/Screen

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. Large 5-mm high fonts, 2 types selectable, are used for enhanced readability, enabling you to read text from several meters away.

#### Single-Keypress Protection of Stored Messages

Received messages are stored in non-volatile memory, and can be recalled onto the screen line by line or message by message using devoted scroll keys. Messages will be automatically erased from memory after the specified time period or after the full memory capacity is reached, but up to 50 important messages can be easily protected from automatic erasure with a devoted key.

## **Message Search Function**

Stored messages are searchable by station ID and/or by message category, and can be output from a total of three external interface connectors for printing on line or for processing by shipboard or shore-based applications. Alarm outputs are also available from a devoted connector for triggering a remotely located alarm device.

# Three-Frequency Single Whip Active Antenna

A 1.2-meter three-frequency active antenna is included as standard for space-limited installation. Specially designed front-end filtering allows the international channel and user-selected second channel transmissions to be received on the same antenna simultaneously without cross-channel interference and without sacrificing sensitivity or IMD performance.

#### **Specifications**

Frequencies: 518 kHz (first receiver), 490 kHz & 4209.5 kHz (second receiver) ●Input Impedance: 50Ω (active antenna) and 10Ω+150pF (long wire) ●Antenna: 3-frequency active antenna, with 1.2m whip ●Sensitivity (1% CER): Better than 1μV/50Ω ant. input ●RF Input Protection: 30Vrms ●Receiving Emission Mode: F1B with FEC (ITU-R REC. 476-3, 540-1 and 625 B-mode) ●Reception Mode: Simultaneous reception of 518 kHz and user-selected 490 kHz or 4209.5 kHz. ●Display Screen: 8-inch color TFT LCD, daylight-viewing, backlit, with user-set screen sleep mode ●Text Display: 40 characters per line, 18 lines (message) + 2 lines (status indication & prompts) ●Message Character Font Size: Approx. 5 mm ●Message Scrolling: Line-by-line or message-by-message ●Message Storage: 200 messages (average 500 characters/message) for each of 518, 490 and 4209.5 kHz receivers ●Message Protection: Up to 50 user-selected messages for permanent storage. ●Message Outputs: All or selected displayed messages, all or selected stored message Search: Stored message searchable by transmitter and/or message type ●Alarms: Audible and visual (message ID in red for message types A, B & L, and both message ID and text in red for message type D) ●Alarm Output: 2 pairs of relay contacts ●I/O Interfaces: RS-232C (printer), RS-422 (IBS/INS), NMEA-0182/IEC61162-1 ●Power Requirements: 24VDC (nominal), approx. 15W. ●Cabinet Size & Weight: 225/245(W) X 225/271(H) X135 (D) mm with/without mounting bracket. Approx. 3.3 kg with bracket. ●Compass Safe Distances: 80 cm (standard), 45 cm (steering) ●Ambient Temperature: -15 to 55°C (cabinet, operating, 95% RH), -40 to 70°C (antenna)

NOTE: Specifications, other than those specified under the relevant IMO recommendations and IEC specifications, are subject to change without notice or obligation.



36-2-1001 Udagawa-cho, Shibuya-ku, Tokyo, 150-0042 Japan Phone: (03)3461-3606 / Telefax:(03)3496-2078 E-mail: sales@japan-marina.co.jp Web site: www.japan-marina.co.jp