

**Fulfills GMDSS  
Carriage Requirements**

# FURUNO®

Low-Cost, User-Friendly Operation

## NAVTEX RECEIVER

Model **NX-500**

2020 AD12 (Error Rate= 0.0%)  
120208UTC JUL 89 (SAR Message)  
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*Printout in actual size*



- Compact, lightweight Navigation Telex Receiver (automatic narrow-band direct-printing telegraphy) conforming to IMO A.525 (XIII), ITU Rec. M.476-5, Rec. M.540-2, and other national NAVTEX receiver specifications
- Meets SOLAS requirements
- Unattended, continuous operation
- Quiet, quality, clear printouts by thermal recording mechanism
- System diagnosis
- 10.8 to 40.0 VDC power supply
- An audible and visual alarm for URGENT message (Search and rescue alerts)
- Stores 120 message ID's for 66 hours
- Active antenna optional
- Memory backup 6 hours in case of power supply failure
- May be used as a data logger when connected with equipment outputting data in either NMEA 0183



The NX-500 is a maritime narrow-band direct-printing receiver to automatically print maritime safety information sent in the format conforming with ITU Rec. M.476-5, mode B, Collective, and CCIR Rec. M.540-2. NAVTEX service uses a single frequency (518 kHz) from stations within each NAVAREA arranged on a time-sharing basis to eliminate mutual interference. The NAVTEX message contains the following message categories:

- A: Coastal navigation information
- B: Meteorological warning
- C: Ice report
- D: Search and rescue alert
- E: Meteorological forecast
- F: Pilot message
- G: Decca message
- H: Loran-C message
- I: Omega message
- J: SATNAV message
- K: Other navigational system message
- L: Additional warning to category A
- Z: No message on hand

The FURUNO NX-500 is an all-new, compact cost-effective NAVTEX receiver — an ideal machine to be installed on any size boat.

## SPECIFICATIONS OF NX-500

### PRINTER

1. **Recording System** Thermal head printing.  
Paper TP-0340 (112 mm x 40 m),  
effective width 89.6 mm
2. **Format** 35 or 70 characters/line (switchable)  
9 x 7 dot matrix, more than 290,000  
characters/roll (35 characters/line)
3. **Print Speed** 31 characters/sec.
4. **ID Memory** 120 message IDs, stored for 66  
hours
5. **Illumination** 3 steps (SAR and PAPER lamps will not  
be dimmed to extinction)

### RECEIVER CHARACTERISTICS

1. **Receiving Freq.** 518 kHz
2. **Mode of Reception** F1B
3. **Sensitivity** 2  $\mu$ V e.m.f. (50 $\Omega$ ), 4 % error rate
4. **Selectivity** Bandwidth: 300 Hz at 6 dB  
Attenuation: 46 dB at  $\pm$ 0.8 kHz
5. **Spurious Emission** 1 nW or less

### POWER SUPPLY

- 10.8 to 40.0 VDC, less than 15 W
- 110/220 VAC with optional Rectifier PR-62

### EQUIPMENT LIST

#### Standard

- 1) Main Unit (1 roll paper inset) 1 unit
- 2) Installation Materials and Fuses (2 pcs.) 1 set

#### Optional

- 1) Active Antenna (pre-amp) NX-5 with 0.6 m 3D-2V
- 2) 2.6 m Whip Antenna 04S4176-0 for use with NX-5
- 3) Flush Mount Panel OP08-4
- 4) Rectifier Unit PR-62
- 5) Extension Antenna Cable OP04-2 (10, 20, 30, 40 or 50 m)

### Printing Mechanism:

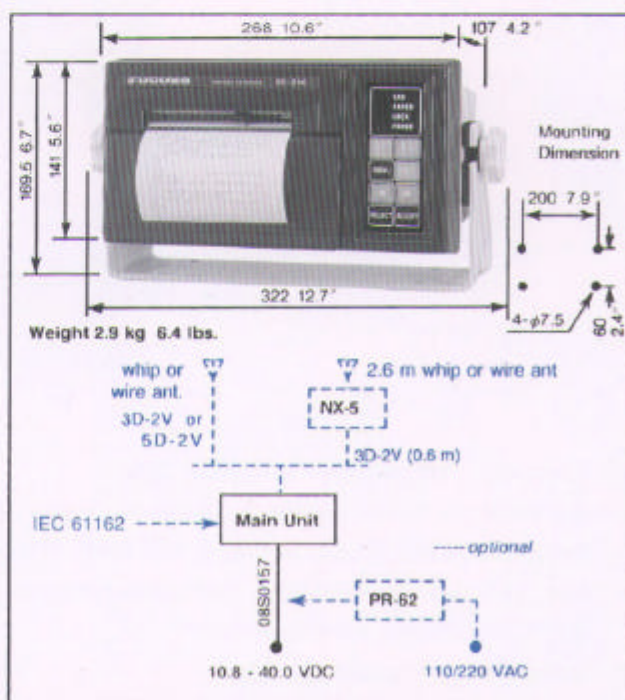
The NX-500 employs high quality, clear 9 x 7 dot matrix thermal printer which has advantages of quiet, quality printout without producing the foul-smelling carbon dust.

### Operation:

You can make all system settings on the MENU program. Once programmed, the NX-500 is ready for use and allows unattended operation. Received signal can be monitored for one minute with manual cut-off.

### Advanced Features:

The NX-500 is *smart and cost-effective*. The NX-500 automatically stores 120 message identifications for 66 hours and verifies every ID of newly received message and prints only the new entries. The operator can easily select or deselect stations but the message categories A (Navigational warnings), B (gale warnings), D (search and rescue messages), or any other message having serial number 00 will all be printed. In the European area and the East/West coast of the U.S.A. the NX-500 automatically picks an optimum NAVTEX station according to ship's position when connected with external nav equipment outputting IEC 61162 data format (\$\*\*GLL) or ship Lat/Long in CIF.



SPECIFICATIONS SUBJECT TO CHANGE WITHOUT NOTICE



The future today with FURUNO's electronics technology  
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