

NAVTEX

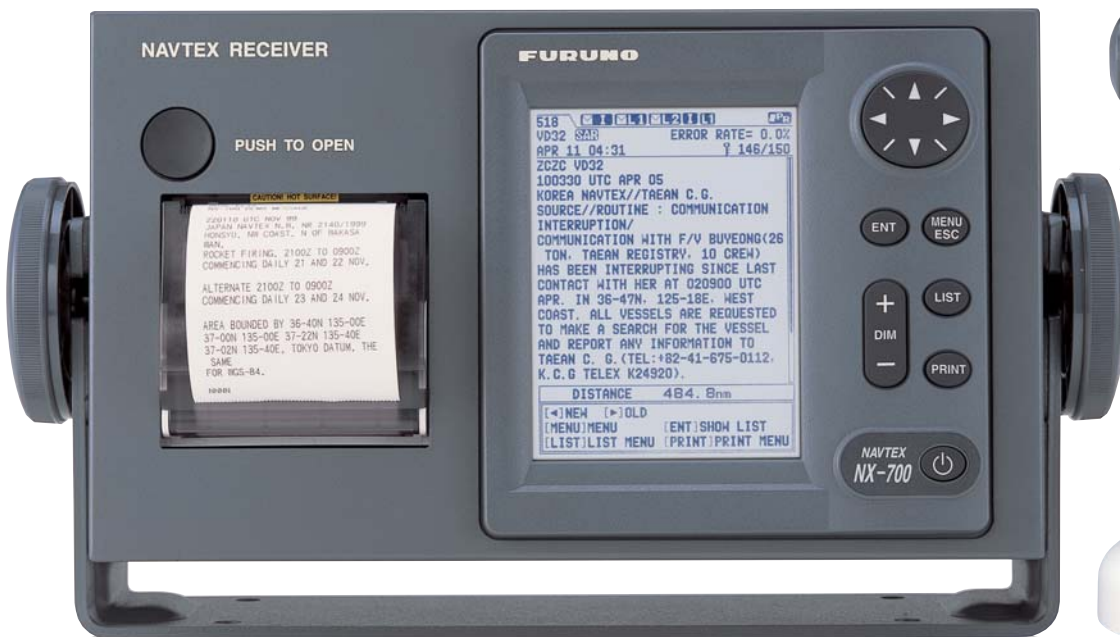
Dual-channel NAVTEX Receiver



Models:

NX-700A (Message display with printer)

NX-700B (Message display unit)



Model: **NX-700A** (Display with printer)



Model: **NX-700B** (Display only)



Dual-channel NAVTEX Receiver

Models: **NX-700A/B**



Antenna Unit

Receiver Unit

- ▶ Fully meets new IMO resolution MSC.148(77), IEC 61097-6 Ed.2
 - Dual channel reception, 518 kHz and either 490 or 4209.5 kHz, simultaneously
 - Incorporates a printing device(NX-700A) or a dedicated display device with printer output(NX-700B)
 - 200 message of average length 500 characters can be stored in non-volatile memory
- ▶ Incorporates a preamp within a lightweight, compact antenna for reliable, uninterrupted reception
- ▶ Display messages on a clear 5" silver bright LCD
- ▶ Low power consumption
- ▶ NAV data display acts as NMEA repeater for GPS or instruments



Operators can print out important messages by pressing a dedicated "PRINT" button.

on efficiency and safety by watching NAVTEX d on both international and local channels



Message inbox

518 ALL MESSAGES

153 MESSAGES

153 HASB APR 11 13:58 [NEW] [NEW]

151 VA05 APR 11 04:33 [NEW]

150 VA04 APR 11 04:32 [NEW]

149 VD32 APR 11 04:31 [SAR]

148 KB80 APR 11 02:42 [NEW]

147 JA86 APR 11 02:34 [NEW]

146 JB67 APR 11 02:31 [NEW]

145 IA44 APR 11 02:28 [NEW]

144 IA31 APR 11 02:27 [NEW]

143 HA30 APR 11 02:19 [NEW]

142 HA03 APR 11 02:18 [NEW]

APR 11 2005 14:20:07

34° 44.974' N
134° 54.969' E

SOG 0.0 kt COG 225.0°

[▲][▼]SCROLL [◀][▶]CHANGE FREQ
[MENU]MENU [ENT]SHOW MESSAGE
[LIST]LIST MENU [PRINT]PRINT MENU

Guide for key controls

Status icons Message icons

All received messages with a selected channel information are sorted by order of time in the message inbox. Operators can easily know the status of each message from the message ID and icons. When receiving SAR information, NX-700 notifies of the incoming messages by audible alarm. For quick viewing, operators can pick up messages they are interested in and display them by using the sort function.

NavData window

Essential navigational data is clearly displayed at the bottom of display when connected with a positioning equipment.

Icons

Status icon

	Shows that an International frequency (518 kHz) message has not been read.
	Shows that a Local frequency message has not been read. L1: 490 kHz, L2: 4209.5 kHz
	Displayed while the NAVTEX is receiving a message. I: International frequency (518 kHz), L1: 490 kHz, L2: 4209.5 kHz
	Displayed when the battery voltage is low.
	Print error (no paper, not connected to the printer, etc.)
	While printing.

Message icon

	Displayed when message has not been read yet.
	Displayed when message type D (SAR) is received.
	Displayed when message type A, B or L (Warning) is received.
	Protected message

Message display

518 APR 11 04:31 ERROR RATE= 0.0% 146/150

ZCZC VD32

100330 UTC APR 05

KOREA NAVTEX//TAEAN C. G.

SOURCE//ROUTINE : COMMUNICATION INTERRUPTION/ COMMUNICATION WITH F/V BUYEONG(26 TON, TAEAN REGISTRY, 10 CREW) HAS BEEN INTERRUPTING SINCE LAST CONTACT WITH HER AT 020900 UTC APR. IN 36-47N, 125-18E, WEST COAST. ALL VESSELS ARE REQUESTED TO MAKE A SEARCH FOR THE VESSEL AND REPORT ANY INFORMATION TO TAEAN C. G. (TEL:+82-41-675-0112, K. C. G. TELEX K24920).

DISTANCE 484.8nm

[◀]NEW [▶]OLD
[MENU]MENU [ENT]SHOW LIST
[LIST]LIST MENU [PRINT]PRINT MENU

Distance window

Shows distance from own ship to a position of event, which is mentioned in message. This enables swift understanding of whether the position is nearby own ship or not.

Message format

Message ID

ZCZC b1 b2 b3 b4

Start code (sync)

Serial number "00":Emergency message "01"-99":Normal message

Type of message "A"-Z" (See the list below.)

Station ID "A"-Z"

main message

NNNN

Main message

Termination code

Fonts

Small (38 characters x 19 lines)

Medium (32 characters x 16 lines)

Large (19 characters x 9 lines)

Three font sizes are available for convenience of the operation.

Type of message (category)

A	Navigational warning	I	reserved presently not used
B	Meteorological warning	J	SATNAV message
C	Ice report	K	Other electronic navigational aid system message
D	Search and rescue information/ piracy and armed robbery	L	Navigational warning (additional)
E	Meteorological forecast	M to U	Reserve-presently not used
F	Pilot message	V	Notice to Fishermen (U. S. only)
G	AIS	W to Y	Reserve-presently not used
H	LORAN-C message	Z	QRU (no message on hand)

SPECIFICATIONS

PRODUCT NAME	NAVTEX RECEIVER
NAVTEX RECEIVER	
Receiving Frequency	518 kHz and 490 or 4209.5 kHz
Mode of Reception	F1B
Sensitivity	2 μ V e.m.f. (50 ohms), 4% error rate
Input Protection	Withstands 30 Vrms for 15 min or more (w/ preamp unit)
Spurious Emission	1 nW or less
Message Category	A : Navigation warning B : Meteorological warning C : Ice report D : Search and rescue information/ piracy and armed robbery E : Meteorological forecast F : Pilot message G : AIS H : Loran-C message I : reserved presently not used J : SATNAV message K : Other electronic navigational aid and system message L : Navigational warning (additional) M to Y: Reserved - presently not used V : Notice to Fishermen (US only) Z : QRU (no message on hand)

DISPLAY

Screen Size	5" monochrome LCD, 76 x 100 mm
Resolution	240(H) x 320(V)
Display Modes	Message, List, NAV Data
ID Storage	200 x 2 channels
Message Storage	200 messages x 2 channels (100,000 characters x 2 channels)

PRINTER SECTION (for NX-700A)

Printing System	Line thermal head printing system
Printing Paper	Thermal paper (58 mm x 30 m)
Printing Width	48 mm
Character Format	24 x 12 dot
Dot Pitch	8 dots/mm
Number of Characters	32 characters/line
Print Speed	20 mm/sec.

ANTENNA UNIT

Antenna Type	NX-7H: H-field antenna with preamp
Output Impedance	50 ohms
Power Supply	+8 V to +9 V (thru co-ax cable)

INTERFACE

Input	IEC61162-1/-2 navigational data from INS, GPS GGA, GLL, RMC, ZDA, ACK, GNS, VHW, VTG, VBW, NRM, CRQ VHW, VTG, ZDA
Output	IEC61162-1/-2 message data for INS, PC NRX, ALR, NRM
Alarm	Normal close, contact closure signal(floating, max 80mA, 50V)
Printer	RS-232C(NX-700B only)

POWER SUPPLY

NX-700A:	12-24 VDC, 1.5-0.8 A
NX-700B:	12-24 VDC, 0.7-0.4 A

ENVIRONMENT (fully complied with IEC 60945 3rd/4th ed.)

Temperature	
Antenna Unit:	-25 °C to +70 °C (-13 °F to +158 °F)
Receiver, Display Unit:	-15 °C to +55 °C (5 °F to +131 °F)

Waterproofing

Antenna Unit:	IP66
Receiver Unit:	IP20
Display Unit:	
NX-700A	IP20
NX-700B	IP25(front panel)

EQUIPMENT LIST

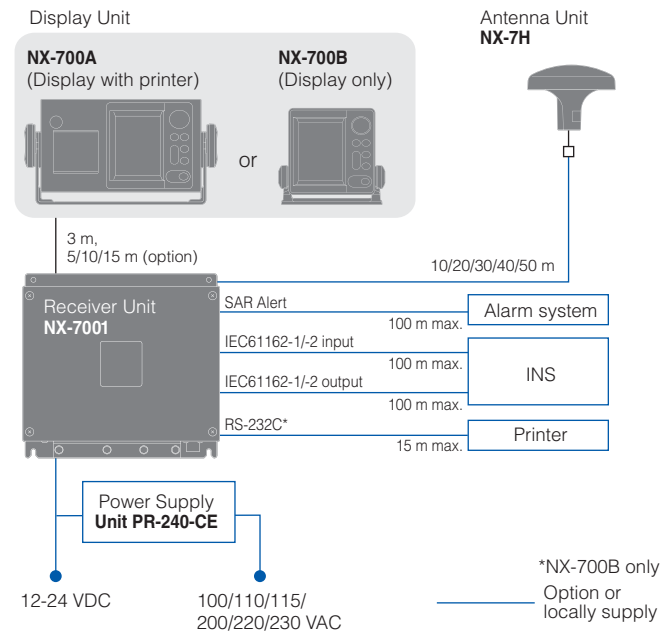
Standard

- Receiver Unit NX-7001 1 unit
- Antenna Unit NX-7H 1 unit
- Display Unit with Bracket (Specify when ordering) 1 unit
NX-700A: Display with Printer, NX-700B: Display only
- Installation Materials and Spare Parts 1 set

Option

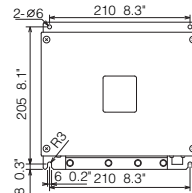
- Antenna Mounting Base
Pipe mount: CP20-01111
Deck mount: 13-QA330
Handrail mount 13-RC5160
Offset bracket: 13-QA310
- Cable for Antenna
3D2V, 10/20/30/40/50 m;
RG10U, 30/40/50 m
- Cable for Display Unit
D-Sub 25P to D-Sub 25P, 5/10/15 m
- Flush Mount Kit for Display Unit
for NX-700A: OP08-19
for NX-700B: OP08-20
- Power Supply Unit PR-240-CE
- Thermal Paper for NX-700A

INTERCONNECTION DIAGRAM



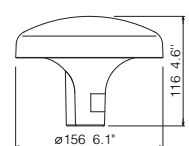
Receiver Unit

NX-7001 2.0 kg 4.4 lb



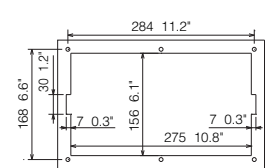
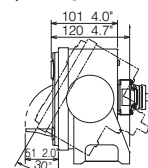
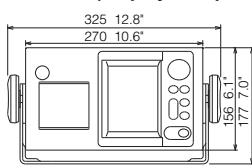
Antenna Unit

NX-7H 0.6 kg 1.3 lb

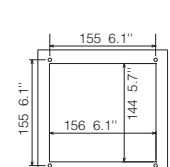
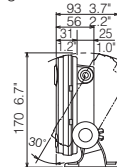
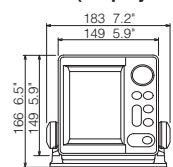


Display Unit

NX-700A (Display with printer) 3.3 kg 7.3 lb



NX-700B (Display only) 0.7 kg 1.5 lb



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