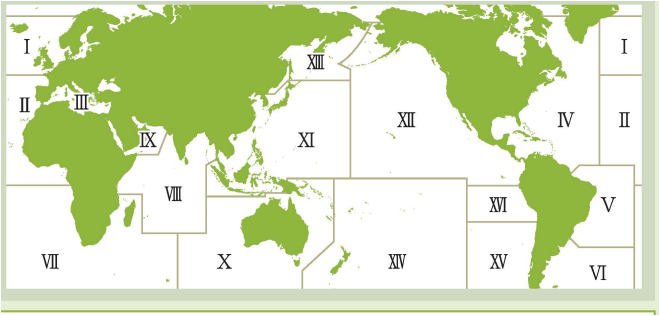


Алматы (7273)495-231 Ангарск (3955)60-70-56 Архангельск (8182)63-90-72 Астрахань (8512)99-46-04 Барнаул (3852)73-04-60 Белгород (4722)40-23-64 Благовещенск (4162)22-76-07 Брянск (4832)59-03-52 Владивосток (423)249-28-31 Владикавказ (8672)28-90-48 Владимир (4922)49-43-18 Волгоград (844)278-03-48 Вологда (8172)26-41-59 Воронеж (473)204-51-73 Екатеринбург (343)384-55-89	Иваново (4932)77-34-06 Ижевск (3412)26-03-58 Иркутск (395)279-98-46 Казань (843)206-01-48 Калининград (4012)72-03-81 Калуга (4842)92-23-67 Кемерово (3842)65-04-62 Киров (8332)68-02-04 Коломна (4966)23-41-49 Кострома (4942)77-07-48 Краснодар (861)203-40-90 Красноярск (391)204-63-61 Курск (4712)77-13-04 Курган (3522)50-90-47 Липецк (4742)52-20-81	Магнитогорск (3519)55-03-13 Москва (495)268-04-70 Мурманск (8152)59-64-93 Набережные Челны (8552)20-53-41 Нижний Новгород (831)429-08-12 Новокузнецк (3843)20-46-81 Ноябрьск (3496)41-32-12 Новосибирск (383)227-86-73 Омск (3812)21-46-40 Орел (4862)44-53-42 Оренбург (3532)37-68-04 Пенза (8412)22-31-16 Петрозаводск (8142)55-98-37 Псков (8112)59-10-37 Пермь (342)205-81-47	Ростов-на-Дону (863)308-18-15 Рязань (4912)46-61-64 Самара (846)206-03-16 Санкт-Петербург (812)309-46-40 Саратов (845)249-38-78 Севастополь (8692)22-31-93 Саранск (8342)22-96-24 Симферополь (3652)67-13-56 Смоленск (4812)29-41-54 Сочи (862)225-72-31 Ставрополь (8652)20-65-13 Сургут (3462)77-98-35 Сыктывкар (8212)25-95-17 Тамбов (4752)50-40-97 Тверь (4822)63-31-35	Тольятти (8482)63-91-07 Томск (3822)98-41-53 Тула (4872)33-79-87 Тюмень (3452)66-21-18 Ульяновск (8422)24-23-59 Улан-Удэ (3012)59-97-51 Уфа (347)229-48-12 Хабаровск (4212)92-98-04 Чебоксары (8352)28-53-07 Челябинск (351)202-03-61 Череповец (8202)49-02-64 Чита (3022)38-34-83 Якутск (4112)23-90-97 Ярославль (4852)69-52-93
Россия +7(495)268-04-70		Казахстан +7(7172)727-132	Киргизия +996(312)96-26-47	

NAVTEX system operation

The world is divided into 16 areas (called Navareas) as shown at right. Each Navarea has multiple NAVTEX stations and each NAVTEX station has an identification code, from "A" to "Z."
The service range of a NAVTEX station is typically 200-400 nautical miles depending on the terrain and station transmit power. A NAVTEX station normally broadcasts every four hours.
There are two channels including international channel, 518 kHz, and local channels, 490 and 4209.5 kHz. International channels broadcast messages in English. On local channels, 490 kHz, is available in the UK, France, etc., using their own languages. 4209.5 kHz is allocated for NAVTEX broadcasts in tropical areas - not widely used at the moment.



SPECIFICATIONS

NAVTEX RECEIVER	
Receiving Frequency	518 kHz and 490 or 4209.5 kHz
Mode of Reception	F1B
Sensitivity	2 µV 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.

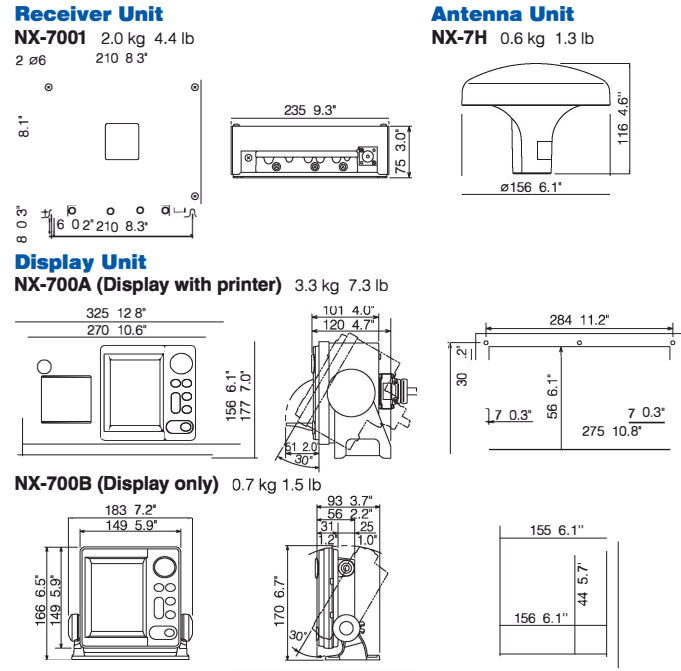
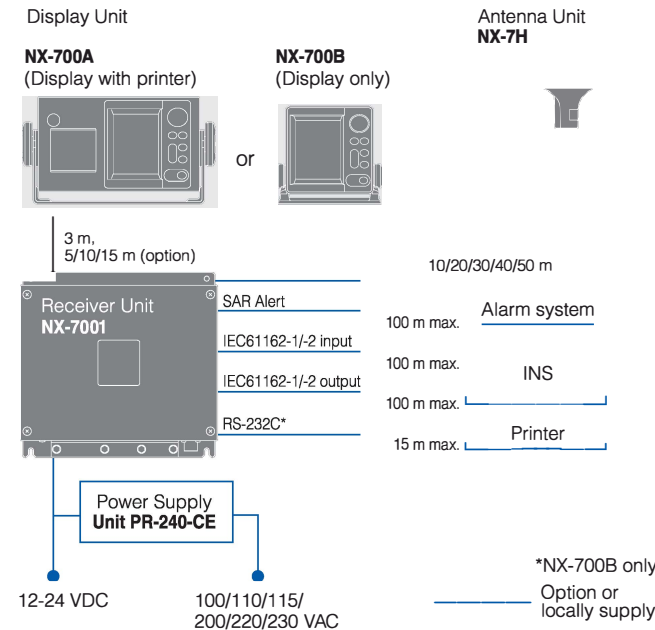
ANTENNA UNIT	
Antenna Type	NX-7H: H-field antenna with preamp
Output Impedance	50 ohms
Power Supply	+8 V to +9 V (thru co-ax cable)

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		
1. Receiver Unit NX-7001	1 unit	
2. Antenna Unit NX-7H	1 unit	
3. Display Unit with Bracket (Specify when ordering)	1 unit	
NX-700A: Display with Printer, NX-700B: Display only		
4. Installation Materials and Spare Parts	1 set	
Option		
1. Antenna Mounting Base	4. Flush Mount Kit for Display Unit	
Pipe mount: CP20-01111	for NX-700A: OP08-19	
Deck mount: 13-QA330	for NX-700B: OP08-20	
Handrail mount 13-RC5160	5. Power Supply Unit PR-240-CE	
Offset bracket: 13-QA310	6. Thermal Paper for NX-700A	
2. Cable for Antenna		
3D2V, 10/20/30/40/50 m;		
RG10U, 30/40/50 m		
3. Cable for Display Unit		
D-Sub 25P to D-Sub 25P, 5/10/15 m		

INTERCONNECTION DIAGRAM



<https://furuno.nt-rt.ru> || fon@nt-rt.ru



Dual-channel **NAVTEX** Receiver

Message display with printer

NX-700A

Message display unit

NX-700B





Enhances the navigation efficiency and safety by watching NAVTEX messages broadcasted on both international and local channels

FURUNO NX-700 is a dual-channel NAVTEX receiver for SOLAS ships complying with the new NAVTEX performance standard MSC.148(77).

The NX-700 can receive two channels simultaneously. One is set for 518 kHz to receive international NAVTEX messages and another is selectable from 490 or 4209.5 kHz for domestic or local NAVTEX messages. These messages include a variety of safety information such as Navigational Warnings, Meteorological Warnings, Search and Rescue (SAR) information and other information for ships sailing within the reach of each service station's coverage. The broadcast station can be selected automatically according to own ship position when the NX-700 is connected with GPS or EPFS.

Every incoming message is stored in non-volatile memory and is displayed on the clear 5" silver bright LCD. Three different font sizes are available and one of them can be selected on menu.

The NX-700A consists of a receiver, display with printer and antenna units. The NX-700B has a low profile, stylish display without a printer, receiver and antenna units. The compact umbrella type antenna requires no grounding because it is H-field antenna. In addition, the antenna incorporates a high-performance preamp within the compact body, which gives reliable and uninterrupted reception without an extra whip antenna.



Message inbox



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.

Guide for key controls

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.

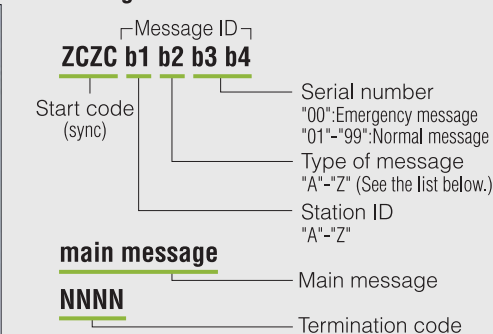
Message icon

	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



Message format



Fonts



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)

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.

Алматы (7273)495-231	Иваново (4932)77-34-06	Магнитогорск (3519)55-03-13	Ростов-на-Дону (863)308-18-15	Тольятти (8482)63-91-07
Ангарск (3955)60-70-56	Ижевск (3412)26-03-58	Москва (495)268-04-70	Рязань (4912)46-61-64	Томск (3822)98-41-53
Архангельск (8182)63-90-72	Иркутск (395)279-98-46	Мурманск (8152)59-64-93	Самара (846)206-03-16	Тула (4872)33-79-87
Астрахань (8512)99-46-04	Казань (843)206-01-48	Набережные Челны (8552)20-53-41	Санкт-Петербург (812)309-46-40	Тюмень (3452)66-21-18
Барнаул (3852)73-04-60	Калининград (4012)72-03-81	Нижний Новгород (831)429-08-12	Саратов (845)249-38-78	Ульяновск (8422)24-23-59
Белгород (4722)40-23-64	Калуга (4842)92-23-67	Новокузнецк (3843)20-46-81	Севастополь (8692)22-31-93	Улан-Удэ (3012)59-97-51
Благовещенск (4162)22-76-07	Кемерово (3842)65-04-62	Ноябрьск (3496)41-32-12	Саранск (8342)22-96-24	Уфа (347)229-48-12
Брянск (4832)59-03-52	Киров (8332)68-02-04	Новосибирск (383)227-86-73	Симферополь (3652)67-13-56	Хабаровск (4212)92-98-04
Владивосток (423)249-28-31	Коломна (4966)23-41-49	Омск (3812)21-46-40	Смоленск (4812)29-41-54	Чебоксары (8352)28-53-07
Владикавказ (8672)28-90-48	Кострома (4942)77-07-48	Орел (4862)44-53-42	Сочи (862)225-72-31	Челябинск (351)202-03-61
Владимир (4922)49-43-18	Краснодар (861)203-40-90	Оренбург (3532)37-68-04	Ставрополь (8652)20-65-13	Череповец (8202)49-02-64
Волгоград (844)278-03-48	Красноярск (391)204-63-61	Пенза (8412)22-31-16	Сургут (3462)77-98-35	Чита (3022)38-34-83
Вологда (8172)26-41-59	Курск (4712)77-13-04	Петрозаводск (8142)55-98-37	Сыктывкар (8212)25-95-17	Якутск (4112)23-90-97
Воронеж (473)204-51-73	Курган (3522)50-90-47	Псков (8112)59-10-37	Тамбов (4752)50-40-97	Ярославль (4852)69-52-93
Екатеринбург (343)384-55-89	Липецк (4742)52-20-81	Пермь (342)205-81-47	Тверь (4822)63-31-35	
Россия +7(495)268-04-70		Казахстан +7(7172)727-132		Киргизия +996(312)96-26-47

https://furuno.nt-rt.ru || fon@nt-rt.ru