The NAV6 and NAV6 plus NAVTEX Systems

NAV6 plus and NAV6 repeater INSTRUMENT REPEATER FUNCTIONS

The first dual channel NAVTEX

The NAV6 is the world's first NAVTEX system to offer dual channel (518 kHz and 490 kHz) reception as standard. Information is presented on a large and easy to read LCD display, rivalling paper print-out for legibility. The 'plus' version offers simultaneous reception on both channels. When connected to an NMEA data source, it offers all the instrument repeater functions shown opposite. NAV6 Nevtex

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The NAV6 adds a new dimension in NAVTEX functionality. All messages are received into a large non-volatile memory for selective display by the user. Decide what messages you want to view after they have been received. Unique *iNEC* message processing decreases errors in received messages.

NAVTEX is part of the Global Maritime Distress and Safety System (GMDSS). It broadcasts weather and navigation warnings, in English on 518 kHz every 4 hours from transmitters around the world. Increasingly, local language and small craft information is also transmitted on 490 kHz. The NAV6 and NAV6 plus can monitor both channels.

ICS NAVTEX receivers are in widespread use by the world's merchant ships and navies. Many shore-based NAVTEX messaging systems have also been supplied by ICS.

Choose from the NAV6 or NAV6*plus* according to your requirements and budget.

Separate outputs are provided for connection to an optional printer or computer.

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NAV6 NAVTEX Sensor

FEATURE	NAV6	NAV6 <mark>plus</mark>	NAV6repeater
Switchable Receiver	 Image: A start of the start of		
Dual Receiver		 ✓ 	
NMEA Auto Station		 ✓ 	 ✓
NMEA GPS Display		 ✓ 	 ✓
NMEA Instrument Display		 ✓ 	 ✓
NMEA Logging		 ✓ 	 ✓
Display Backlight	 ✓ 	 ✓ 	 ✓
Data Output		1	1

NAV 6 varies

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With navigation space becoming more and more restricted in modern boats, the NAV6**plus** display concentrates all the data you need, where you need it. It takes critical NMEA data from your GPS or instrument system and displays it in a highly innovative manner. An electronic log book is updated at regular intervals and can be printed out later (via an optional printer).

repeater.

When connected to an existing system, NAVTEX data is also repeated. The NAV6Hub is available to aid wiring of larger systems. Any combination of up to four sensors and displays may be connected together. See our website or NAV6 Technical Bulletin for details.

FEATURES

- Sun cover available



All the information you really need at your navigation position on one large, easy to use display.

These powerful Instrument/GPS repeater functions are included as standard in the NAV6plus. The NAV6repeater can be purchased separately without NAVTEX sensor for use as a stand-alone NMEA



See price list for available options



Instrument display



• Steering display



Log display



Conning display

Who are ICS?

Founded in 1982, the core technology of ICS is marine data communication. We are a leading GMDSS equipment manufacturer for both commercial and leisure applications. In addition we have installed NAVTEX and DSC coast radio station infrastructures in a growing list of countries worldwide. ICS equipment is relied upon by commercial ships, navies and coastguards worldwide.



NAV6plus has a wide range of user selectable instrument and navigation screen options

Technical Specifications – NAV6, NAV6plus and NAV6repeater

Product Code

916.01	NAV6plus High Legibility LCD NAVTEX, simultaneous 518 and 490 kHz operation. NMEA input/GPS repeater facility. Automatic NAVTEX station selection and NMEA data logging. Supplied complete with remote NAVTEX sensor and 15m cable.	Power req Voltage Consumpt Backligt Backligt Sleep m Display Ur Operati
916.00	NAV6 High Legibility LCD NAVTEX, user switchable 518 or 490 kHz single channel operation. Supplied complete with remote NAVTEX sensor and 15m cable.	Humidit Weight Display ty 1/2vga with 4 g
6003.00	NAV6<i>repeater</i> Additional NAV6 display or NMEA instrument repeater.	Controls 4 x func With LE
6020.00 6020.17 6020.03 919.00 6020.16 6020.19 6020.18 903.03	Options NAV6, NAV6 <i>plus</i> and NAV6 <i>repeater</i> U-bracket, on surface 3 way mounting kit. NAV4/NAV6 conversion mounting kit. Display unit suncover. NAV6Hub, interface box for use with additional displays and sensors. Cable deck gland. 5m NAVTEX sensor cable extension kit. 30m NAVTEX sensor cable extension kit. Plastic Rail Mount for NAVTEX sensor – suitable for 25mm S/S rails.	Alarm Vital me Message S Sufficie NAVTE) Physical Height Mounting Panel 'ii 'U' brac Connectio 2 metre
918.00 6020.09	Options NAV6 <i>plus</i> and NAV6 <i>repeater</i> NAV6 paper roll printer. NAV6 PC serial interface cable.	Environme Environme Inside/c Splash

NAV6 - NAV6plus SPECIFICATION:

- quirements range 10.8V to 15.6V. otion (Typical) ght full 310 mA (3.8 W at 12V). ght off 165 mA (2.0 W at 12V). mode 115 mA (1.4 W at 12V).
- ing Temperature Range 0 to +50degC 0 to 95%. (without cable) 445 g.
- 480 x 320 pixels) 6"monochrome LCD grey levels and CFL backlight.

ction keys, 4 x navigation keys. ED backlight.

- essage reception acoustic alarm.
- Storage ent non-volatile storage for more than 3 days of
- X transmissions under normal operating conditions. 198mm, width 136mm, depth 40mm.
- 'instrument' mounting (standard). acket on surface mount (option).
- e cable with screw terminal block. ed system connection with NAV6Hub ental
- outside mounting n proof construction IEC 945 (EMC).





ICS Electronics Ltd

Unit V, Rudford Industrial Estate, Ford, Arundel, West Sussex BN18 0BD, England

Tel: +44 (0) 1903 731101 Fax: +44 (0) 1903 731105 E-mail: sales@icselectronics.co.uk Web Site: www.icselectronics.co.uk

ICS Electronics has a policy of continuous product improvement and reserves the right to vary in detail from the specifications contained in this brochure. NAV6/NAV6 plus issue 2 Rev A 31/08/2001 © 01 ICS Electronics Ltd

NAVTEX SENSOR

NAV6 NAVTEX Sensor Switchable dual channel receive 518kHz or 490kHz, Channel controlled by display unit NAV6plus NAVTEX Sensor

Dual channel receiver 518kHz and 490kHz simultaneously. NAVTEX Sensor (general) Waterproof to IEC 60945. Frequency Stability: +/-10 Hz. RS485 serial data I/O port. Data decoding in accordance with ITU-R 540-2. Power

Supplied by display unit. Physical

Height 200mm. Width (base)110mm. Depth (max)155mm. Operating Temperature Range -10 to +50degC. Humidity 0 to 95% non-condensing. Weight (without cable) 420 g (approx.). Industry standard 1"14tpi threaded base. 15m Sensor cable. Extension Whip, length 45 cm/ 3/8" x 24 tpi thread.

NAV6plus and NAV6repeater

- Data input: NMEA input port, meets the electrical requirements of NMEA 0183. NMEA GPS/Instrument system interface supports NMEA 0183 V2.0 or higher Input/output Interface Specification Preferred NMEA sentences: RMC, HDT, HDG, VBW, MWV, VLW, DPT, ROT, VDR, RMB and BWC.
- Minimum recommended NMFA sentences: RMC and RMB Data output: RS232 serial data, supports the printing
- of vessel 'Log reports' and NAVTEX message text to NAV6 Printer or a computer system running compatible software.

NMEA logging Interval: off,15, 20, 30 mins, 1, 2, 3, 4, 5, 6,12 hours 256. log entries

ICS



One clear back-lit display gives all the information you need at your navigation position

NAV6 NAV6 NAV6

Dual channel NAVTEX system with optional instrument/NAVTEX repeater functions