## V4 Marine Communication System NAVTEX

ICS Electronics Limited is the world leader in the design, integration and supply of advanced NAVTEX systems, with over 20 stations in commission.

The V4 NAVTEX, a component part of the V4 Marine Communication System, provides facilities to compile, edit, schedule and transmit Maritime Safety Information by NAVTEX in compliance with the IMO and ITU requirements.

The highly automated system monitors and verifies its own transmissions and can display NAVTEX messages from other stations.

The compilation of NAVTEX messages is very straightforward, essential when operator time may be at a premium. Station letters, message serial numbers, message headers and end of transmission characters are automatically generated. The operator simply has to select a category, select the first transmission time slot from a pull down list and enter the message. To aid the operator text can be pasted or imported from other Windows applications during message compilation.

The V4 NAVTEX accepts automatic entry of messages from remote information providers such as meteorological or hydrographic establishments reducing operator workload.

Online status monitoring, logging and comprehensive remote diagnostics and test facilities are included.

The system may be provided as a turnkey solution including transmitters, antennae and remote control systems or as a subsystem ready for integration with existing equipment.



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#### Features

- IMO Compliant supports VITAL, IMPORTANT and ROUTINE messages
- Proven reliability
- Fully automated NAVTEX broadcasts
- Reduced operator workload
- Simple message compilationCentralised management of
- multiple stations
- Supports international and national NAVTEX frequencies
- Automated input from remote information providers
- Graphical display of time slot usage
- Monitoring and verification of transmissions
- Integrated transmitter control
- Automated low power reduction
- TCP/IP network system architecture
- Remote administration and diagnostics
- Established support and training services

ICS Electronics Limited Unit V, Rudford Estate, Ford, Arundel, West Sussex BN18 0BF England T. +44 (0)1903 731101 F. +44 (0)1903 731105 E. sales@icselectronics.co.uk www.icselectronics.co.uk

...taking Marine Communications to New Horizons

#### Example System

To provide uninterrupted coverage around the British Isles, the UK NAVTEX system features three remote transmitter sites centrally controlled from the Maritime Rescue Coordination Centre (MRCC) at Falmouth.

The UK Maritime and Coastguard Agency, MCA, provide the international NAVTEX service on 518kHz and inshore reports using the 490 kHz national frequency.

Maritime Safety Information (MSI), including navigational warnings originating form the UK Hydrographic Office and weather forecasts and warnings issued by the UK Meteorological Service, are sent electronically to the to the MRCC where they are scheduled for transmission by NAVTEX.

The remote sites, equipped with a pair of 1kW NAVTEX transmitters and ICS NAVTEX modems in main/standby configuration, are linked via land-line to the control centre providing online fault reporting and diagnostics facilities.

The service has been running for many years and has an exemplary availability and reliability record.

# Tx Site Control Centre 0 518kHz C 490kHz Portpatrick Cullercoats Niton Niton Niton T 490kHz T 490kHz T 490kHz

### **Operator Workstation Examples**

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🙄 V4 Navtex	
File View Message Tools Help	
+ + 🖋 🗶 🖨 New Copy Edit Delete Print	I V File Online Pause Resume Clear
Status   Message Log   System Log   Hong Kong 518.0 L	
Message ID Status Description $ abla$	First Transmission Last Transmission Transm
LD13 🕅 MV SUGAR BABE OVER	DUE 050317 13:50 050317 13:50 1:50, 5:50, 9:50,
LA02 🗐 HKO #001 15:07 HKT (	🐒 New Message
LE37 🕺 280115 UTC JAN 2005	
	Schedule E - Niton 518.0kHz
	Message Type A-Nav Warnings I EA63
280115 UTC JAN 2005	
X LE37(XI) 518.0kHz	Transmit Slots 🔽 00:40 🔽 04:40 🔽 08:40 🔽 12:40 🔽 16:40 🔽 20:40
	First Transmission 050317 12:40 💌 Billing ID
280115 UTC JAN 2005	Last Transmission 050428 08:40 (252 transmissions, 42 days) 🔻 Billing Reference
HONG KONG RADIO VRX	
NO WARNING.	Description NAVAREA ONE 375
no marunid.	NAVAREA ONE 375
GENERAL SITUATION AT 272100 GMT: COLD FRONT 23N 122E 23N 125E E 10 KT. TROUGH 20N 107E 23N 117E 23N 122E QS	DOUER STRAIT. DYCK OCCIDENTAL. CHART BA 323. SHOAL DEPTH 9.2 METRES Located 51-03.29N 001-53.04E.
MARINE FORECAST FOR 24 HOURS FROM	
HONG KONG= E TO SE 3-4. 500 M IN FOG F	
Ready	0040 0440 0440 1240 0 1 2 3 4 5 6 7 8 9 10 11 12 OK