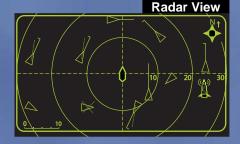
# NAUTICAST - INLAND AIS

INLAND Automatic Identification System
Product No.2662



#### Class A - SOLAS Transponder:

- > INLAND and SOLAS All in one
- > Lock Management (ETA / RTA)
- > Interrogations IFM
- > Message 23 (Group Assignment Command)
- > Inland ECDIS
- > Full Remote Control
- > Built in Sensor Configuration



**Worldwide Approvals** 



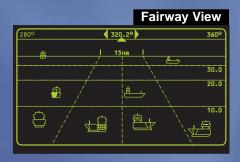






ACR Electronics, Inc. is registered by UL to ISO 9001: 2000

- ➤ The Nauticast-INLAND AIS is 2 Transponders in 1. Designed for use in both inland waterways and SOLAS applications, the Nauticast-INLAND AIS gives you added safety in multiple cruising situations.
- > The Nauticast-INLAND AIS includes the innovative 3-in-1 Graphical Display with 3 different views at a fingertip: Alphanumeric, Radar View and Fairway View. This representation of the surrounding traffic scenario also with different zoom-levels is a completely unique way of capturing and representing vessel data.
- The Nauticast-INLAND AIS Transponder fully corresponds to the technical specifications for the Universal Automatic Identification System (UAIS) Transponder, issued by the International Maritime Organization (IMO).
- ➤ The Nauticast Transponder makes a significant contribution to increasing safety on rivers or while at sea.





ACR Electronics, Inc.

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PHYSICAL		
Size (w)	281,26 mm / 10,07 "	IMO N
Size (h)	60 mm / 2,36 "	ITU-R
Size (d)	201,26 mm / 7,92 "	IALA
Weight	2490 g / 5,50 lbs	IEC 6
Operating Temperature	-15°C to +55°C / 5°F to 131°F	IEC 6
		IEC 6
POWER SUPPLY		IEC 6
Supply Voltage	24 V DC (-10% +30%)	ITU-R
(galvanic isolated)		IEC 6
Input Current	min.7 A (24V)	IEC 6
WITEREN 050		ITU-R
INTERFACES  Number of Data Ports	2 Innut / 41 O / 4 Output	ITU-R
IEC 61162-1/2	3 Input / 4 I-O / 1 Output ( RS422 / NMEA 0183)	VHF
ITU-R M.823-2	( RS422 / RTCM SC104)	
	( R3422 / R1CW 3C104)	Frequ
Bitrate CH1 Sensor Input: (e.g.: GPS)	4800 bps / 28400 bps	Chan Numb
CH1 Sensor Input; (e.g.: GPS)	4800 bps / 38400 bps	_
CH2 Sensor Input; (e.g.: GYRO)	4800 bps / 38400 bps	Numb
CH3 Sensor Input; (e.g.: HDG)  CH4 ECDIS Port (In- / Output)	4800 bps / 38400 bps	Numb
AIS targets, AIS messages	in / out 38400 bps	Frequ
CH5 Pilot Port (In- / Output) AIS targets, AIS messages	in / out 38400 bps	VHF '
CH8 Long Range Port (In- / Output)	in / out 38400 bps	Outpu
CH9 DGPS correction (In- / Output) (RTCM SC104)	in / out 9600 bps	Rece
Alarm Circuit CH10	Dry relay contact	Trans
- I am Circuit Office	(see BIIT-Alarm System)	Autor
DUILT IN ODG		Chan
BUILT IN GPS		Attac
Receiver Architecture	12 channel differential	
Tracking Capability	12 satellites sim.	VHF
Accuracy Horizontal	10 m / 2 drms *	Max.
Accuracy Vertical	15 m / 2 drms *	Co-ch
GPS Antenna Connector	TNC	
DGPS Accuracy	< 5 m / 2 drms	Adjac
* depends on SA		Inter-
000014		Spuri
GPS Solutions		Block
Beacon interoperability  EGNOS interoperability		
		VHF
WAAS interoperability		Bitrat
OMNISTAR interoperability  LongWave interoperability		RF B
VHF interop. (DGPS over Msg.17)		Modu
optional internal Beacon Receiver		
Combined GPS/DGPS Antenna		SOFT
Combined GF3/DGF3 Antenna		Nauti
BIIT – Alarm System		- insta - impl
		- impi - Use
Relay breaking capacity	04	and
30V DC 250V AC	8A 8A	- Add
2001710	OA OA	- Nau
OPTIONAL INTERFACES		
Number of Data Ports RS232	up to 5	LLA.E.
Bitrate Simplex / Duplex	Up to 115000 bps Duplex	HARI
Number of Data Ports IEC	1	Nauti
61162-3 CAN (RS485)		
Bitrate	up to 1 Mbps	DISP

SPECIFIED STANDARDS	
IMO MSC.74(69) Annex 3	
ITU-R M.1371 (Class A)	
IALA Techn.Clar. of ITU-R M.1371-1 (Ed.1.3)	
IEC 61993-2 (2002)	
IEC 61162-1 (2000)	NMEA 0183-3
IEC 61162-2 (1998)	NMEA 0183-3
IEC 61162-3	NMEA 2000
ITU-R M.823-2	
IEC 61108-1 (1996)	
IEC 60 945 (1996)	
ITU-R M.825-3	
ITU-R M 1084-3	

Frequency Range	156 MHz - 162 MHz
Channel Spacing	12.5 or 25 kHz
Number of RF Channels	3 Receiv. / 1 Transm.
Number of AIS Receivers	2
Number of DSC Receivers	1
Frequency Error	+/- 2.5ppm

#### MITTER

Output Power	2 Watt to 12.5 Watt (adjustable)
Receive to Transmit Switching Time	< 1 ms
Transmit release time	< 1 ms
Automatic shutdown	1 sec.
Channel switching time	< 25 ms
Attack Time	< 1 ms

Max. Useable Sensitivity	< -110 dBm
Co-channel Rejection	> -8 dB (25 kHz); > -12 dBm (12.5 kHz)
Adjacent Channel Selectivity	> 70 dB (25 kHz); > 60 dB (12.5 kHz)
Inter-modulation Rejection	> 65 dB
Spurious Response Rejection	> 70 dB
Blocking	> 84 dB

Bitrate GMSK	9600 bps
RF Baud Rate (DSC)	1200 bps
Modulation	GMSK / FSK

- ILAND Version 2.0.x
- nd ready for use ed configuration Software tly Interface to System
- ormation

Interface to System Configuration (Windows 2000®)

monstrator for training purposes (Text only) (Windows 2000<sup>®</sup>, Windows XP<sup>®</sup>)

ersion 1.0.x

Text: 40 x 16 chars Graphical: 240 x 128 dots adjustable brightness



## ACR Electronics, Inc.

**World Leader in Safety and Survival Technologies** 

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#### **FEATURES:**

### Multiple Applications

The Nauticast-Inland AIS gives you the option to switch between Inland navigating or open sea cruising. All the benefits of two separate AIS systems, conveniently package for the price of one.

### Graphical Display

The 3 in 1 Graphical Display includes 3 different views and an adjustable zoomfunctionality. Targets can be selected directly using cursor keys with both graphical views (are shown in a minimized view including a ship list of receiving AIS-signals).

#### ▶ Full Remote Control

Fully compliant with ECDIS connectivity, the Nauticast-Inland AIS can be driven completely by remote control (i.e. by ECDIS)

### Blue Sign Switch

Optional blue sign switch allows you to safely travel the with the river current and warn approaching vessels of your position.

### Lock Management

Inform the lock authorities with your estimated time of arrival or have a requested time of arrival reported to your vessel from the lock authorities to optomize travel through the locks.

### Size it up!

The Nauticast's alluring measurements are W 28 cm x D 20cm and its height is only 6 cm. It's a lightweight at 2,5 Kg, and won't take up precious space on your bridge, even though keyboard and display are integrated.

Although ACR strives for accuracy in all its publications, this material may contain errors or omissions, and is subject to change without prior notice. ACR shall not be made liable for any specific, indirect, incidental or consequential damages as a result of its use. ACR components may only be used in safety of life devices or systems, with the express written approval of ACR, as the failure of such components could cause the failure of the Nauticast device or system. If these fail, it is reason able to assume that the safety of the user or other persons may be endangered.

For over 50 years, ACR has built quality products knowing they are used to save lives. Please call or write for a complete catalogue of safety and survival products.

