BIG SOLUTIONS
FOR SMALL VESSELS

Navi-Radar 4000
and Navi-Sailor 4000 ECS
for workboats and small crafts

TRANSAS

TRANSAS WORKBOAT SERIES

Transas Workboat series offers the same technology, performance and quality that you'd expect from a full size radar and ECDIS from Transas, but in a compact format.

Smaller but perfectly formed; there's no reduction in the performance of the Workboat series. The high performance processor unit presents outstanding Radar and Chart data on a super clear display. Beautifully designed for a modern bridge, and at the same time durable enough for harsh environments.
Based on the well-known 4000 MFD concept, Transas Workboat series is the perfect platform for a professional bridge of any size. Use as a single workstation, or as part of a network where all officers have access to the relevant data and information:

- Charts and databases
- Sensor data
- Radar video and functionality
- Route and Voyage plans
- Alarms and warnings
- Track history

WHY CHOOSE THE TRANSAS WORKBOAT SERIES?

- Saves you time, saves you money
- Offers product flexibility with wide range of customisable features
- A worldwide supplier with service centres in all major ports, providing 24/7 service and support
- Global sales team with unrivalled product knowledge and understanding of customer needs
- Transas - an innovative company, constantly developing its product range to meet your future requirements.

NAVI-SAILOR 4000 ECS MFD

The Navi-Sailor 4000 ECS Multifunction Display (MFD) from Transas is without doubt one of the best navigation systems on the market. Navi-Sailor 4000 ECS MFD is based on the certified Navi-Sailor 4000 ECDIS that meets the requirements of the latest IMO, IHO and IEC performance standards and resolutions. It's the ideal solution for ship owners needing professional and reliable navigation, but where a certified ECDIS is not required.

Full positional information from navigation sensors is displayed on electronic navigational charts. The system assists the officer in charge of the navigational watch (OOW) in route planning and monitoring. Four main tasks can be operated on every navigational station: Navi-Sailor 4000, Navi-Radar 4000, Navi- Conning 4000 and Alarm Monitoring System.

MAIN FUNCTIONALITIES AND FEATURES

Supported chart formats and main chart functionalities:

Vector and Raster chart presentation
Navi-Planner chart handling tool for Chart control and updates

Navigation tools:

Alarms and warning / ERBL / Quick distance measuring tool / True and Relative motion / MOB / Docking Mode / Dual chart panel / Manually fix position

Working with Routes:

Advanced Route Planning functionality with multiple Route capability
Route Monitoring and Route pre checking
Support for SAR operations

Logging Functions:

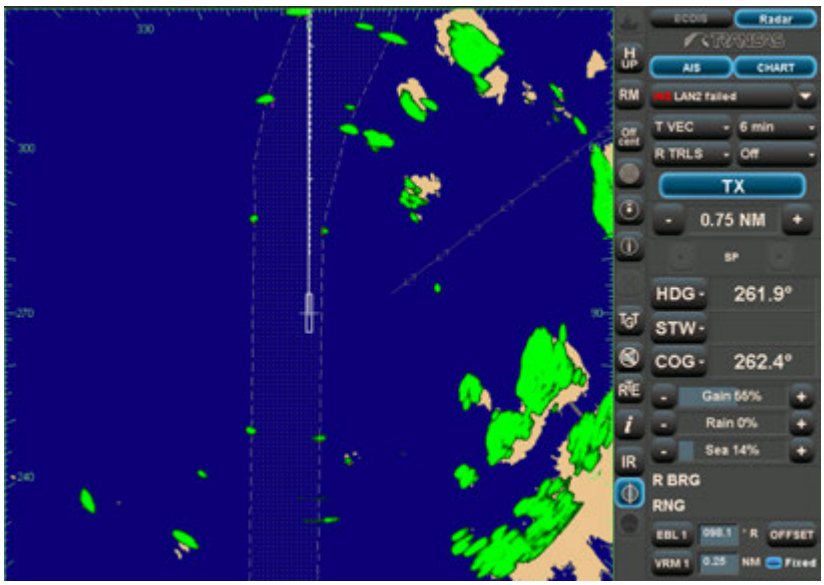
System Logbook with Ships Track and target data
Radar Overlay recording
Playback and printout capability

NAVI-RADAR 4000

New technologies open new possibilities; digital processing and increased sensor data provide the navigator with greater accuracy at their fingertips.

Navi-Radar 4000 uniquely combines radar information, navigational charts, ENC safety parameters, targets, user-maps, route and tools for decision support, together providing safer navigation.

On Navi-Radar 4000 the chart layers can be individually configured, avoiding a cluttered radar display.



A simplified user interface provides relevant presentation, even on small size displays.

Pre-calculated motion vectors:

Even before the operator has acquired a target, Transas Navi-Radar 4000 has already selected potential targets and will provide you with instant data once selected.

Chart Radar:

Efficient multi-loading and display of electronic charts , which can simultaneously present ENC/SENC or TX-97 charts as an underlay with own created maps. Transas' built-in ECDIS kernel provides an easy selection of chart in-fills in colour, grayscale or contours.

PANEL COMPUTER FOR ECS/RADAR

The Transas Panel Computer (TPC) is the perfect computer for work boats and other small crafts. The TPC's ultimate performance, convenience and enduring quality make it ideal for an ECS/Radar set-up.

The Panel Computer is available in 15", 19" and 24" as standard versions to fit on any bridge. Each TPC is equipped with NMEA ports as well as direct connection to radar transceivers without needing additional external interfaces, and guaranteeing a simple, reliable and cost effective installation onboard any vessel.

15" W: 356 mm H: 307 mm
19" W: 429 mm H: 382 mm

24" W: 593 mm H: 384 mm

RADAR TECHNICAL SPECIFICATIONS

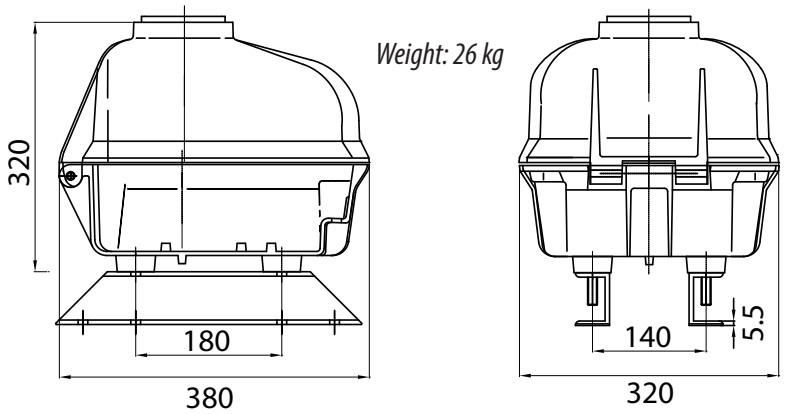
Environmental and power supply

Temperature	-25°C to 55°C	
Voltage	**Open array**	**Radome**
	24 VDC	12/24 VDC
Power Consumption	< 70W Nominal	

Installation Kit includes

Cables for open array prefabricated 10m.
Stainless bolts and all required connectors.
Installation and operator manual in soft copy.

ROTATING UNIT



RADOME

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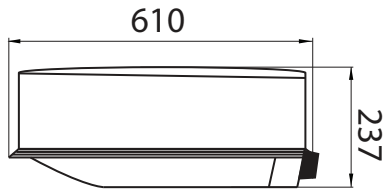
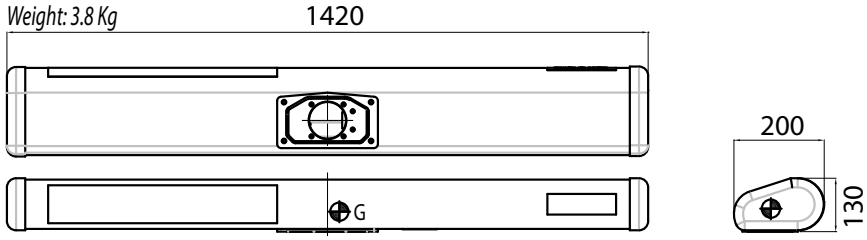


Weight: 8 kg

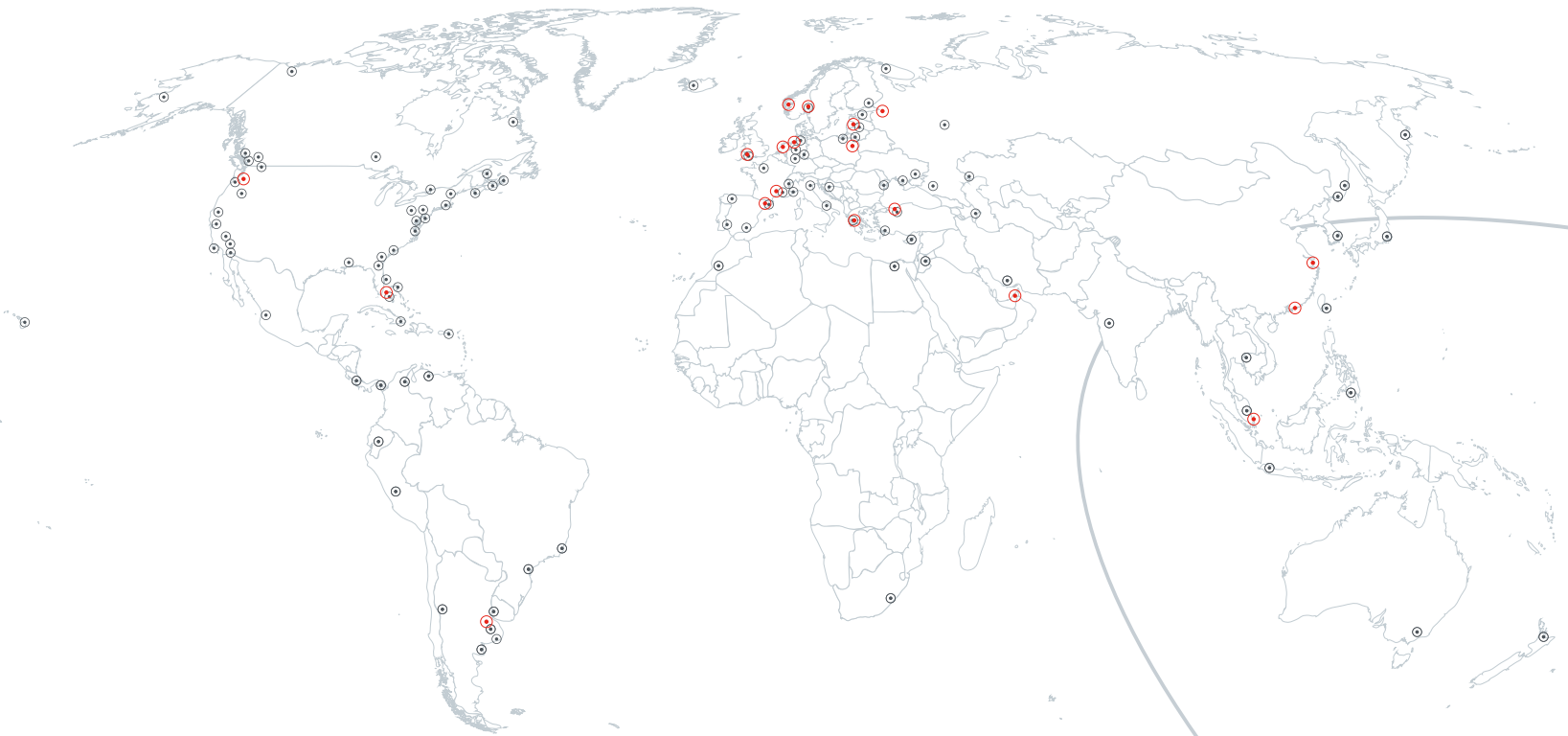
4 ft.



TRANSCEIVER UNIT	Radome	Open Array
Peak power (nominal)	4 kW	4 kW
Range scale	48 nm	64 nm
Radiation frequency	9410 ± 30 MHz	
Pulse Width	50 nS	50 nS
	80 nS	200 nS
	300 nS	400 nS
	800 nS	800 nS
Pulse Repetition Frequency	2600 Hz	3200 Hz
	2100 Hz	1600 Hz
	1200 Hz	800 Hz
	600 Hz	500 Hz

Transmitter type	Magnetron	
Modulator	Fully Solid State	
Receiver type	Logarithmic fully Solid State	
Dynamic range	100dB	
Intermediate Frequency (IF)	60MHz	
IF Bandwidth	20MHz on Short and Medium pulse 4MHz on Long and Extra Long pulse	
Noise figure	3,5dB	
Antenna rotation speed	**Open array**	**Radome**
	38 RPM	24/30 RPM

ANTENNA	Radome 62	4 ft Array
Lenght	1.8 feet	4 feet
Type	Microstrip Array	Slotted waveguide
Frequency band	9410 ± 50 MHz.	
Polarization	Horizontal	
Horizontal beamwidth	3.8° ± 0.2°	1.8° ± 0.1°
Vertical beamwidth	22° ± 2°	22° ± 2°
Sidelobes within ± 10°	-19 dB	-26 dB
Sidelobes outside ± 10°	-21 dB	-30 dB
Gain	⩾ 21 dBi	⩾ 27 dBi



Authorized Transas Distributor:

RANAB
Södra Hamnen, 471 32 Skärhamn, Sweden
Tel: 0304-671 711 Mob: 0760-011 990
E-mail: service@ranab.se

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