SIMRAD

PRO SERIES

RADAR SOLUTIONS

PRO.SIMRAD-YACHTING.COM

The Simrad Radar Range

Based on 50 years of experience and designed by some of the world's leading marine radar system engineers, the Simrad Argus X-Band, Argus S-Band and Broadband Radar Systems offer world class solutions for professional vessels. As the only manufacturer to offer this full range of radar solutions, we can design a target detection solution specifically for your vessel.

Both Argus X-Band and S-Band options are fully IMO compliant and their configuration is characterised by reduced weight, small dimensions, and compact electronics thereby offering a great solution for a wide variety of vessels (including high speed craft).

Argus X-Band

The Argus X-Band is a state of the art professional X-band radar including 6 and 9 foot antenna options* and up-mast transceiver in both 12kW and 25 kW. Thanks to the modular design, they can either be assembled to form a stand-alone display cabinet, or be flush mounted as part of an integrated bridge. The standard configuration always includes full ARPA, AIS and an integrated gyro interface with Stepper, Syncro and NMEA capability as standard. An electronic built-in interswitch for dual radar installations is also included as standard.

*Note: a 12ft antenna option is available and this requires a modified up-mast transceiver.

Argus S-Band

The Simrad Argus family has been expanded with the addition of the lightest S-Band radar available in the market today. The S-Band radar has a new slim profile antenna to reduce disturbances caused by sea waves and wind resistance.

The Argus S-Band radar does not require a separate power supply and uses the exact same single cable as the Argus X-Band. This makes installation and service significantly easier than most other S-Band installations in the market today.

The 30 kW Argus S-Band Radar has enhanced near target detection, pre-wired plug and play installation, and full integration with the current Argus X-Band Radar. The Argus S-Band is perfect for vessels over 3000 gross tonnes who require and S-Band radar (3 GHz) as part of their carriage requirements.

The Argus S-Band shares some of the same proven technology and electronic components as the Argus X-Band thus reducing the required on-board spare parts and assuring their availability via our world-wide Advantage Service program.

KEY FEATURES

- Combined intelligent video of two radar transceivers onto one PPI or two independent PPI on a wide screen monitor for better situational awareness and performance
- Modular and solid state construction for ease of maintenance and servicing
- Separate processor, monitor and operation panel offering flexible mounting options
- Up to 100 target (ARPA) and 300 AIS targets
- Five different monitor sizes/options to suit your needs
- Seamless use of up to four antennas combining X and S Band interswitching capability. Very light S-Band antenna that does not require a separate power supply.
- Optional special application add-ons: Oil Spill Detection, Small Target Detection and Ice Navigation.
- Controllable antenna rotation speed 20 or 40 rpm (not available with 12ft X-Band antenna)
- IMO approved
- Pre-set video processing modes for easy operation, including Harbour, Short Range, Medium Range, Rough Sea and Ice
- Includes a comprehensive standard configuration with no hidden costs. Performance Monitor, Gyro Interface, AIS, ARPA are all included as standard.
- Integrated FMCW Radar compatibility

Argus Radar Approvals

Both the Argus X-Band and S-Band radars meet and even exceed IMO regulations and Solas V minimum carriage requirements as follows:

1. All ships of 300 gross tonnage and upwards and passenger ships, irrespective of size, shall be fitted with a 9 GHz X-band Radar.

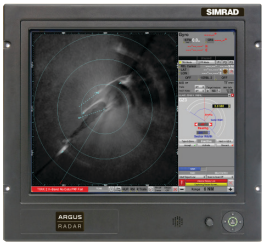
2. All ships of 500 gross tonnage and upwards shall have an automatic tracking aid.

3. All ships of 3000 gross tonnage and upwards shall have a 3 GHz S-band radar or where considered appropriate by the administration a second 9 GHz X-band radar, functionally independent of those referred to in point 1.

Size of ship/craft	500 gt to 10000 gt and HSC<10000 gt	All ships/craft ≥10000 gt	Simrad Argus X-Band and S-Band
CATEGORIES OF SHIPS	CAT 2 CAT 2H	CAT 1 CAT 1H	CAT 1 CAT 1H CAT 2 CAT 2H
Auto-acquisition of targets	NO	YES	YES
Minimum acquired radar target capacity	30	40	100
Minimum activated AIS targets	30	40	300
Minimum sleeping AIS target capacity	150	200	300

OTHER RADAR APPROVALS

- EC Marine Equipment Directive (MED)
- United States Coast Guard (USGC)
- China Classification Society (CCS)
- Russian Maritime Register of Shipping (RS) (approval pending)
- FCC / IC
- ISO 9001



▶ 19" display
Part no. 000-10632-001

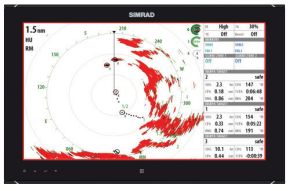
▶ 23" display
Part no. 000-10633-001

▶ 26" display
Part no. 000-11570-001

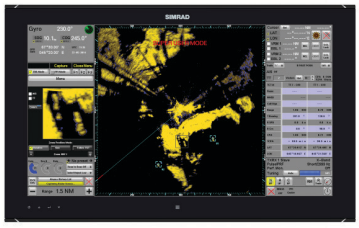
▶ ARGUS Core Unit
Part no. 000-10330-001

Non-IMO Argus Core unit for special applications
Part no. 000-10883-0001

▶ 16" MO16-P Wide Screen
Part no. TBA



▶ 19" MO19-P Wide Screen
Part no. TBA



▶ 24" MO24-P Wide Screen
Part no. TBA

▶ ARGUS keyboard
Part no. TBA
An external mouse can be used in conjunction with the Argus keyboard.

ARGUS Radar Display

The ARGUS display is available in three different configurations.

▶ **The modular configuration** with monitor, keyboard and Electronic Core Unit supplied as three separate modules which can be flush mounted into the bridge console to the customers´ preference.

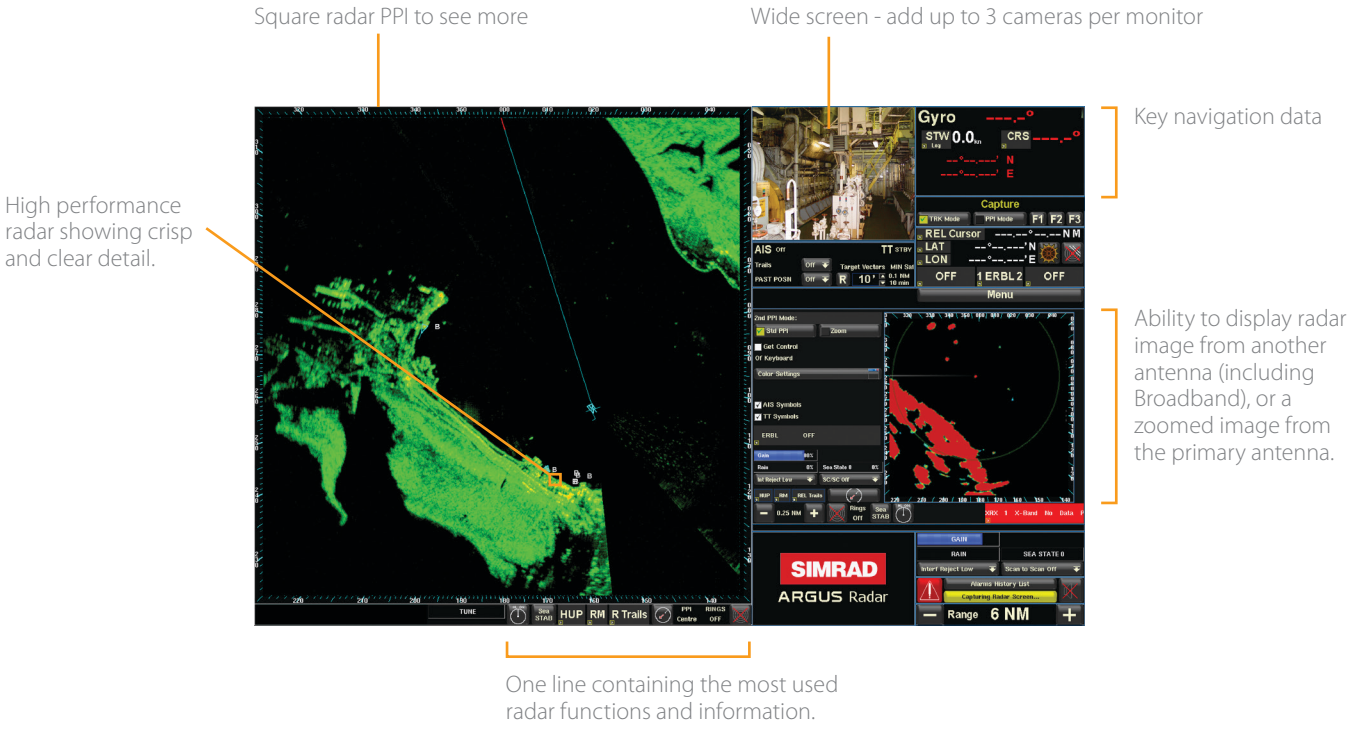
▶ **The table top configuration** where the monitor and keyboard are housed into an ergonomic desktop console while the ARPA electronics are contained in a separate bulkhead mounted cabinet.

▶ **The deck configuration** provides an optional display deck stand which can also house the electronic cabinet. Two different options available :

- Desk-Top Cabinet for 26" with Pedestal
- Desk-Top Cabinet for 23" / Adapter Frame kit for 19" Monitor / Pedestal

ARGUS Radar Screen Presentation

- **Wide screen (26”) radar presentation:**
  - **Square or wide Radar PPI** to see more
  - **Simplified PPI presentation** - choose from centered or offset PPI to allow for flexible presentation options.
  - **User selectable second PPI** - use for dual range, extra target zoom, Broadband Radar Integration, or for center presentation.
  - **User selectable viewing area** - select CCTV, full Conning or second radar scanner (including Broadband 4G), all without compromising IMO performance requirements.
- **19” and 23” displays radar presentation:**
  - **Square Radar PPI** - same as a chart on an ECDIS.
  - **Simplified PPI presentation** - choose from centered or offset PPI to allow for flexible presentation options.
  - **Main radar operator settings** - one line containing most used radar functions and information.
  - **User selectable viewing area**



ARGUS Special Applications

We are among the first companies in the world to provide special application add-ons that work in parallel with an IMO/SOLAS ARPA navigational radar (note a dedicated core unit must be available for full IMO approval for navigational radar). From the ships owners’ point of view, the most important benefit is the reduced maintenance costs in terms of installation, service and spare parts, and the officer on watch only has to learn to use one radar system.

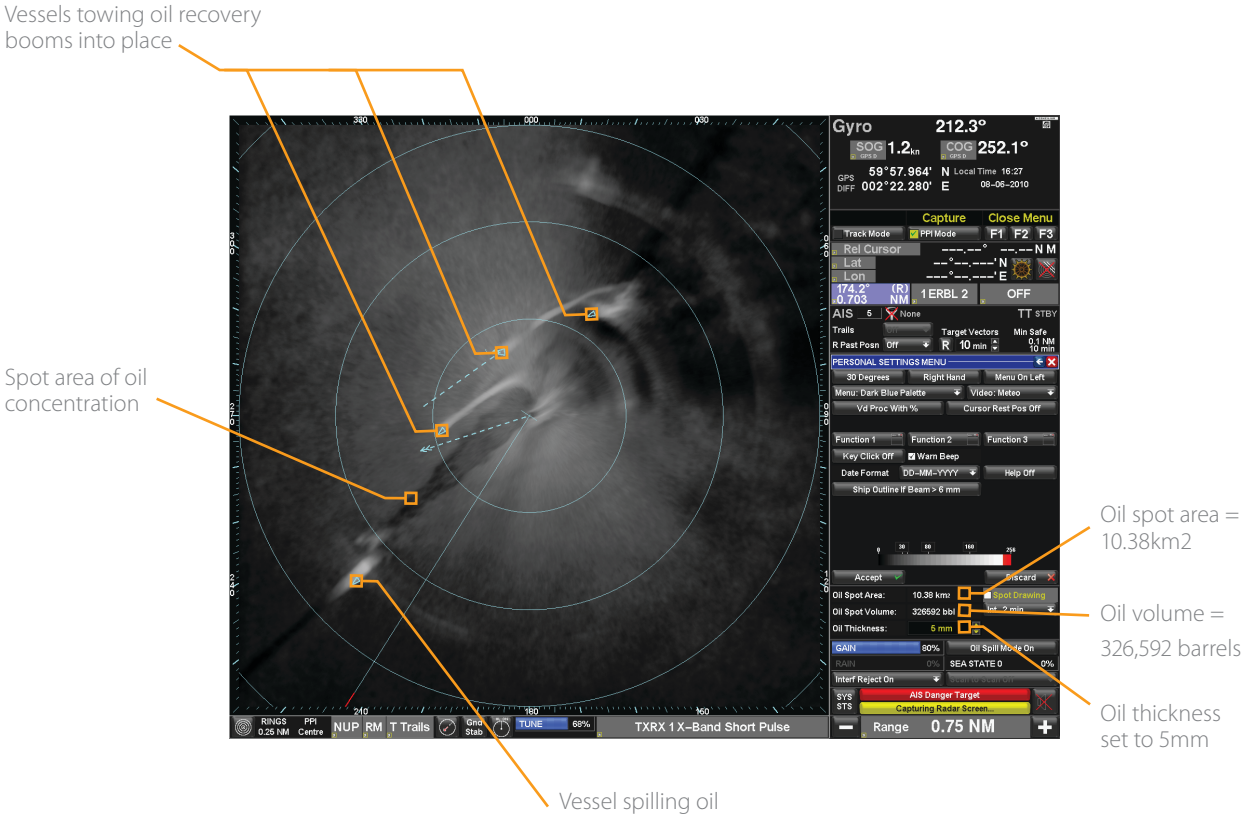
There are three additional special application software packages available offering Oil Spill Detection, Small Target Detection, and Ice Navigation.

1. OIL SPILL DETECTION

Early detection and the ability to mount an emergency response are essential should an oil spill occur. Adding the Oil Spill Detection capabilities to your Simrad Argus X-Band or S-Band Radar is a must to stay operational. An Argus OSD Radar will increase your hours of operation and efficiency, as the vessel can now work in the dark and know which part of the oil slick to concentrate on.

The Simrad Argus Oil Spill Detection application works by receiving and processing signals in real-time from on-board transceivers. The water surface is usually dampened when it is contaminated by oil, so the backscatter of microwave radiation from these waves is unlike the rest of the sea. The radar is then able to highlight the dampening of the reflected microwave radiation on the radar display, thus calculating the size, position and drift (speed and course) of the oil spill. We let you see inside the oil spill!

The Simrad Argus Radar with Oil Spill Detection software has been successfully tested during two NOFO (Norwegian Clean Seas Association for Operating Companies) on-water exercises. The radar has been found suitable for use in NOFO mode of operation. The success of this application is further supported by the dozens of installations that are in operation today around the world.



2. SMALL TARGET DETECTION

Being able to identify small targets can be a matter of life and death. The Simrad Argus Small Target Detection unlock key allows the user to access a set of radar functions specific to identifying small targets amongst the sea clutter.

The superior detection of small objects in clutter is carried out by using advanced signal averaging to suppress the chaotic sea clutter returns in the background, and preserve the signal level of stationary targets. Therefore, in terms of amplitude of the received radar signal, the distance between the clutter and target is increased and the target detect-ability is enhanced.

In addition, the operator can manually adjust the colour palette threshold to suit sea and weather conditions by adjusting some parts of the radar signal from grey to green to highlight the presence of small targets above the average sea clutter.

3. ICE NAVIGATION

For vessels operating in low temperature environments, purchasing the Ice Navigation unlock key helps reduce any potential risk of serious incidents in Arctic waters. This special application supports both strategic route planning and tactical ice avoidance.

The reflectivity properties of different objects (or surfaces) will be displayed on screen as different colours. Sea water, grease ice, first-year ice and in general low radar reflectivity areas are represented with a shade of colour from black through to green, while land, old hard ice, vessels etc. are represented by a shade of colour from green through to red.

The Ice Navigation unlock key will assist the ships navigators to set a course that will follow safety routes for significant time savings and to avoid damage to the ship, ultimately increasing operational profits. The Ice Navigation software has been tested and approved by the Russian administration for cold weather operation down to -50C.

Argus Radar Special Application Configuration Options:

PART NUMBER	CONFIGURATION	OIL DETECTION	ICE NAVIGATION	SMALL TARGET DETECTION
305172A2	USB Unlock Key for Oil/Ice/Small Target detection software	✔	✔	✔
305172A3	USB Unlock Key for Oil Spill detection software	✔		
305172A4	USB Unlock Key for Ice Navigation software		✔	
305172A5	USB Unlock Key for Small Target detection software			✔
305172A6	USB Unlock Key for Oil/Ice Navigation software	✔	✔	
305172A7	USB Unlock Key for Oil/Small Target detection software	✔		✔
305172A8	USB Unlock Key for Ice/Small Target detection software		✔	✔

BROADBAND RADAR OVERVIEW

Simrad has introduced a revolutionary radar system unlike anything else on the navigation market. Utilising broadband Frequency Modulated Continuous Wave (FMCW), this breakthrough technology provides superior target detection and separation, ease of operation and a new level of navigational safety. Broadband Radar near-range performance and usability is optimized with the addition of high-speed antenna rotation (48 RPM).

This Broadband 4G™ Radar has all of the benefits of our revolutionary Broadband 3G™ Radar but with more advanced features, including beam sharpening for target separation control, dual range radar and increased target detection capabilities. The Broadband 4G™ also includes 18 range scales all the way down to a 50m scale, providing the operator unprecedented short range performance.

KEY FEATURES

- Beam sharpening with target separation control
- Dual range anywhere from 5m to 36NM
- Up to 48RPM at less than 1NM
- Directional STC and Sidelobe suppression
- FMCW technology with inherent LPI
- Extremely low emissions
- InstantOn™

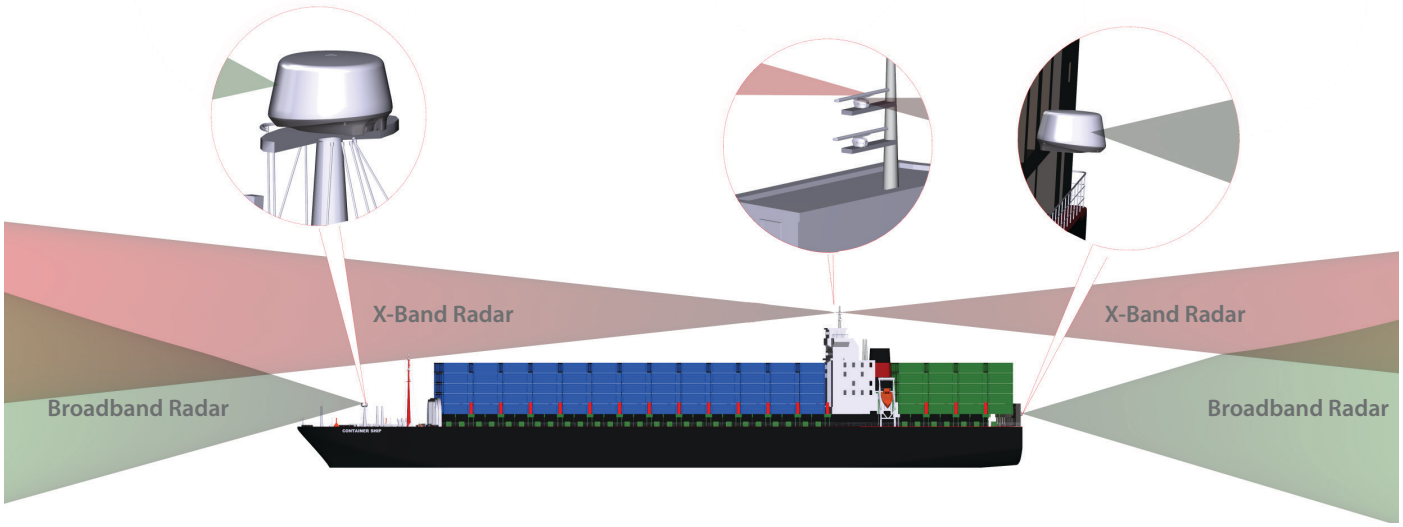
BROADBAND AND ARGUS RADAR INTEGRATION

Integrating Broadband Radar with the Argus X or S-Band Radars is now a standard feature. Simrad Argus X-Band and S-Band Radars can combine signals from up to four transceivers with different output power, frequency band, antenna sizes and mounting positions.

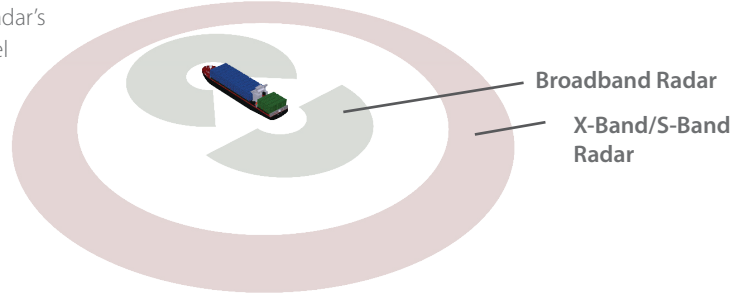
Utilizing solid-state technology, the breakthrough 4G™ Broadband Radar solution provides superior target detection and separation, ease of operation, and a new level of navigational safety to a wide range of applications.

Integrate the Simrad Broadband 4G™ Radar with an Argus X or S-Band for complete close range coverage.

- Tighten blind zones and reduce piracy threats –targets can be detected within a 5m range ensuring all potential threats are monitored.

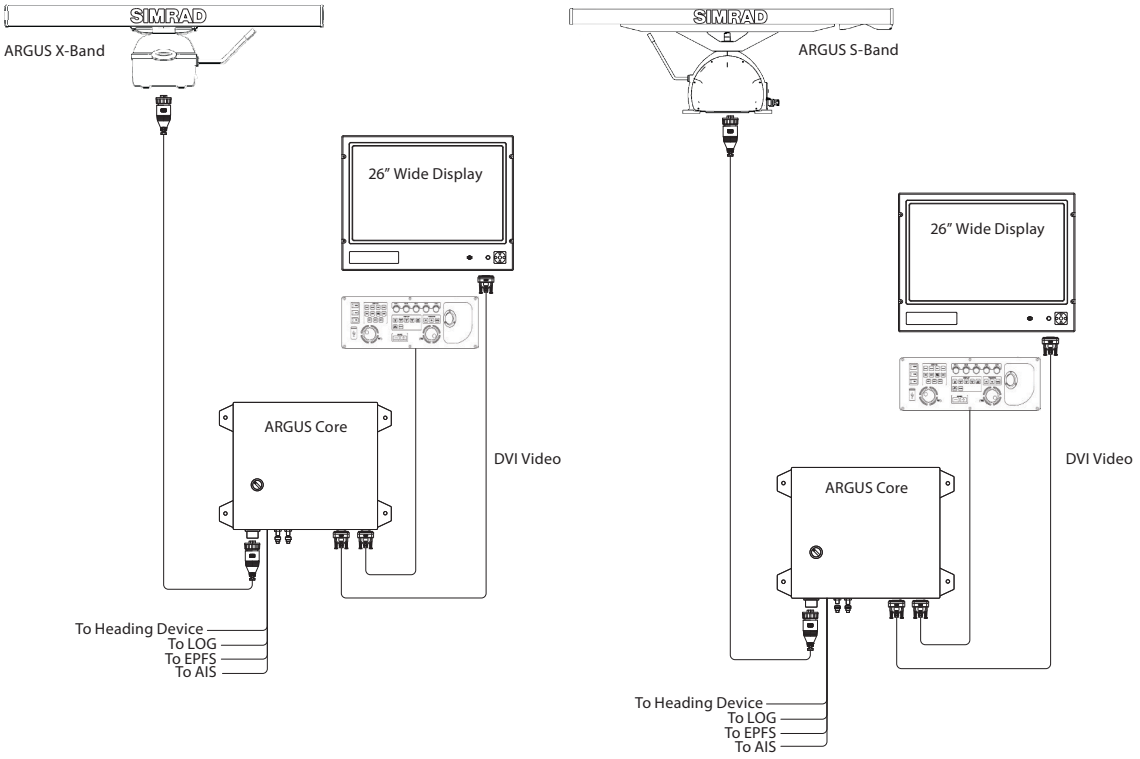


- Docking Radar capabilities -with the optional Broadband Radar's close range performance, the navigator or pilot can monitor the vessel relative to the dock or other structure (such as a wind farm turbine) right up to the point of contact. Total flexibility of installation is available due to zero radiation hazard enabling a scanner location that is not possible with pulse radars' inherent radiation.

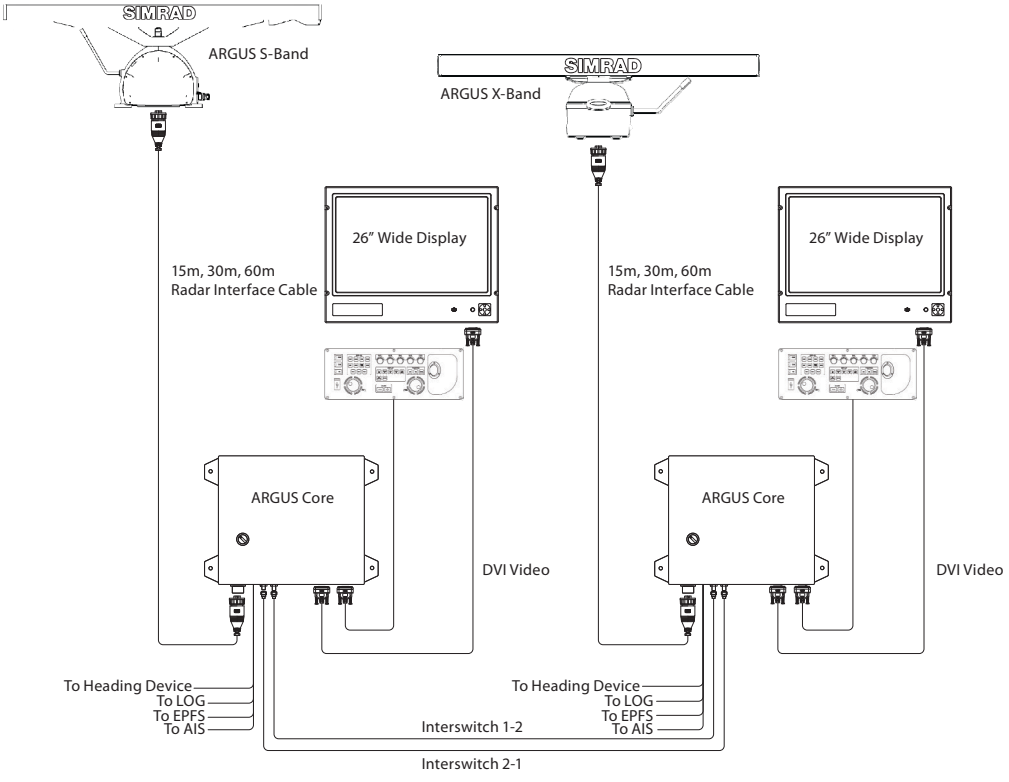


System Configurations

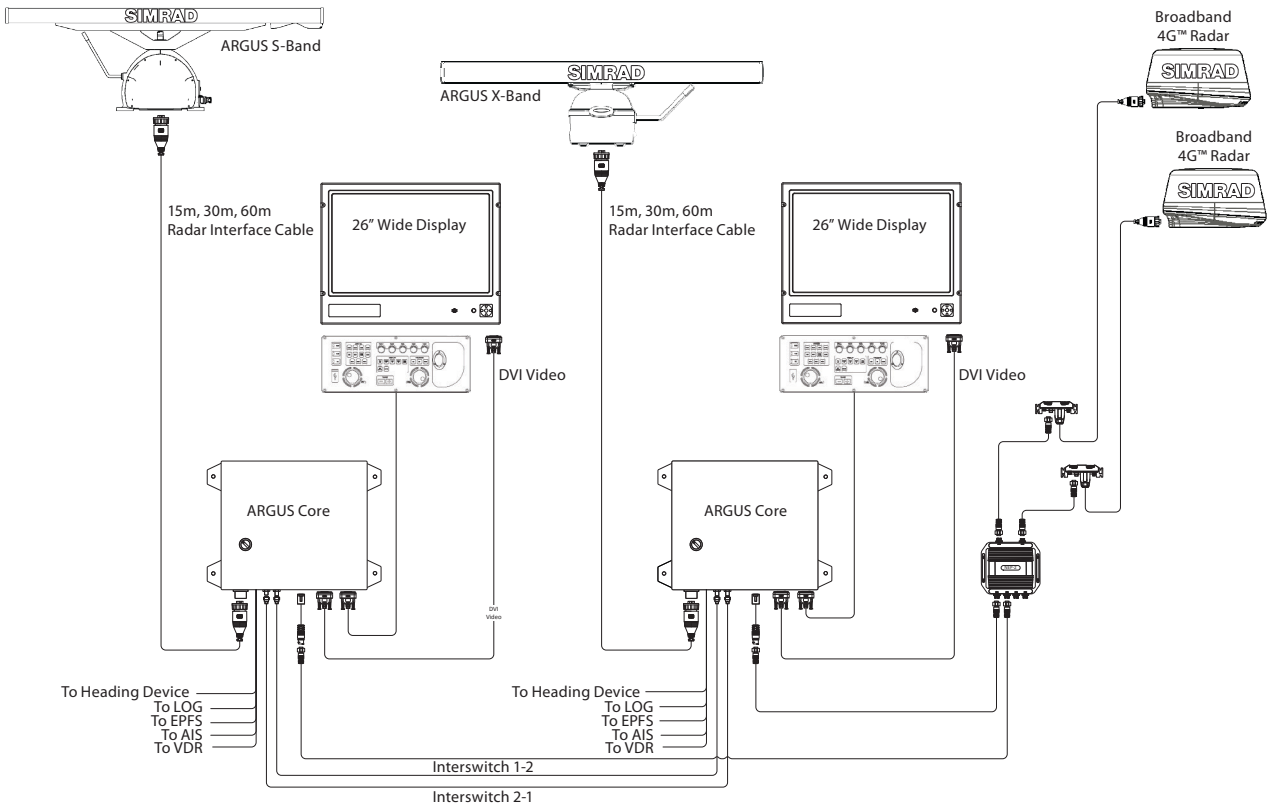
1. IMO APPROVED X OR S-BAND SYSTEM



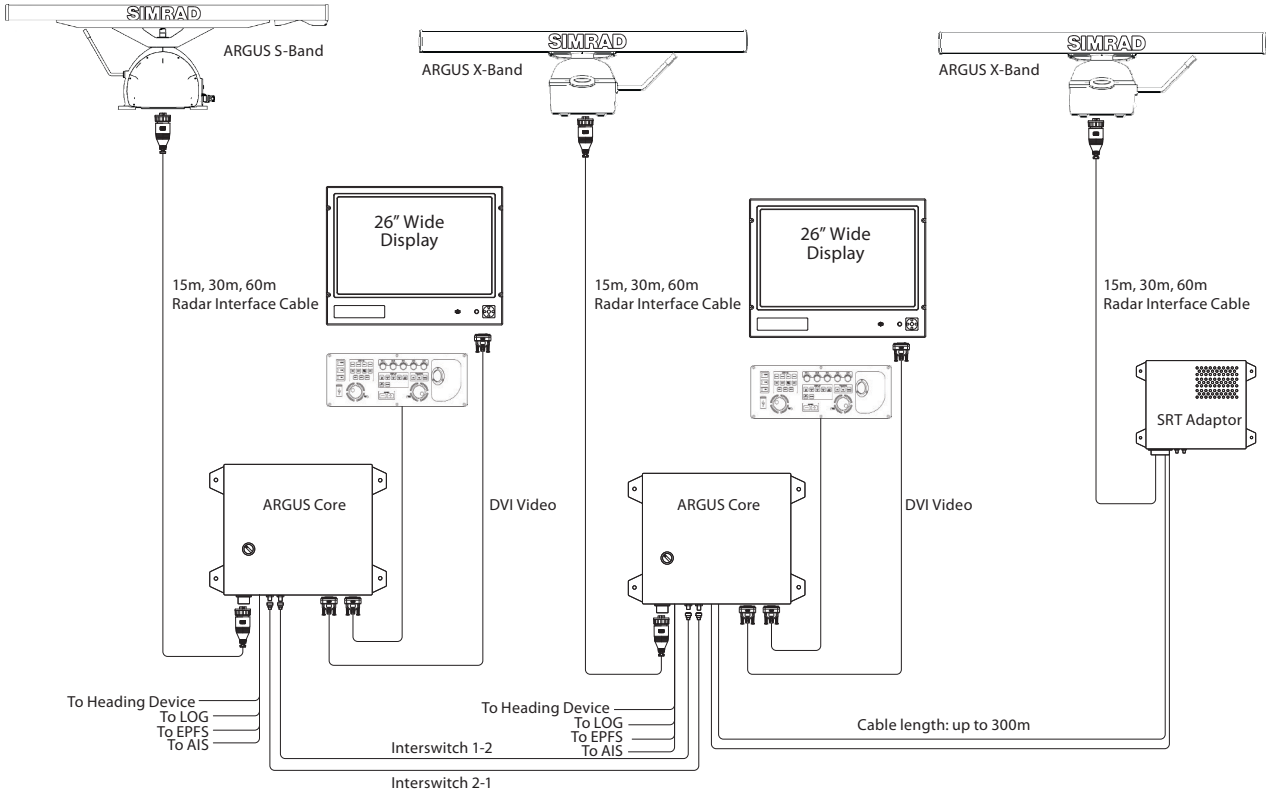
2. IMO APPROVED X AND S-BAND INTERSWITCHED



3. IMO APPROVED WITH BROADBAND RADAR INTEGRATION

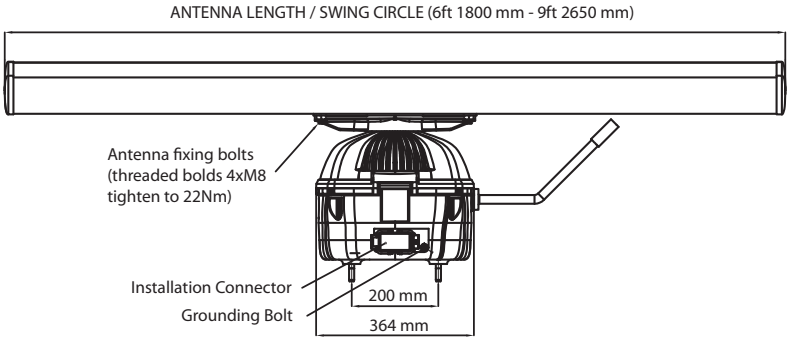


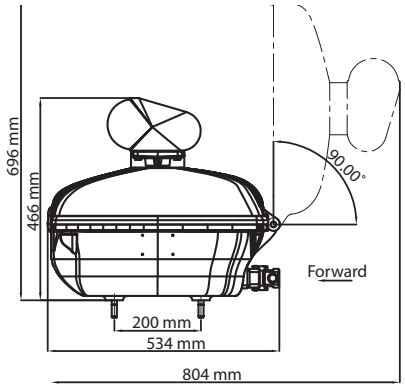
4. LONG CABLE RUN INSTALLATION SHOWING X AND S-BAND



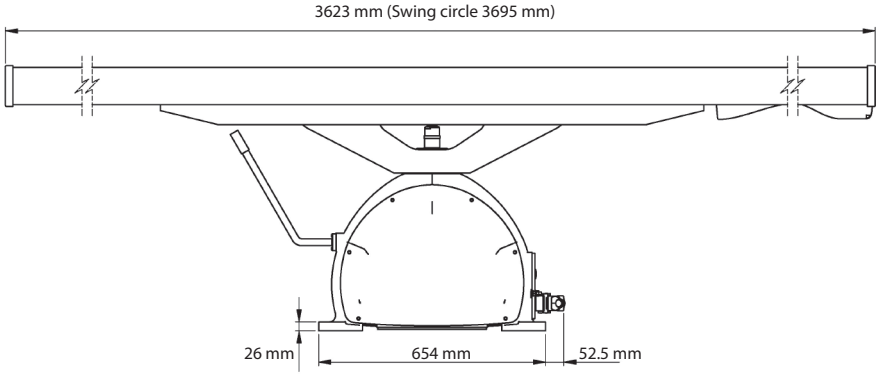
Dimension Drawings

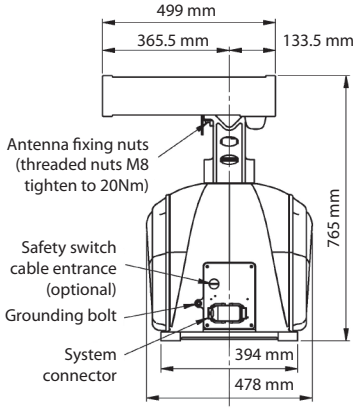
ARGUS X-BAND RADAR UPMAST





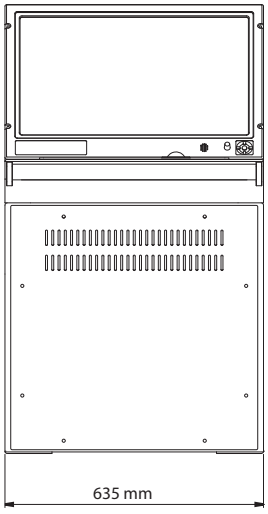
ARGUS S-BAND RADAR UPMAST



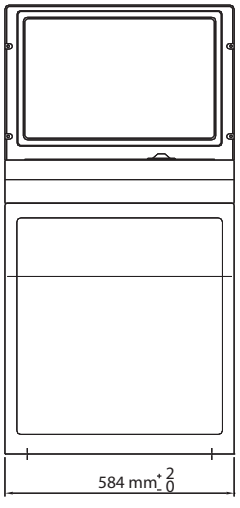


ARGUS RADAR 19", 23" AND 26" MOUNTING

FRONT VIEW

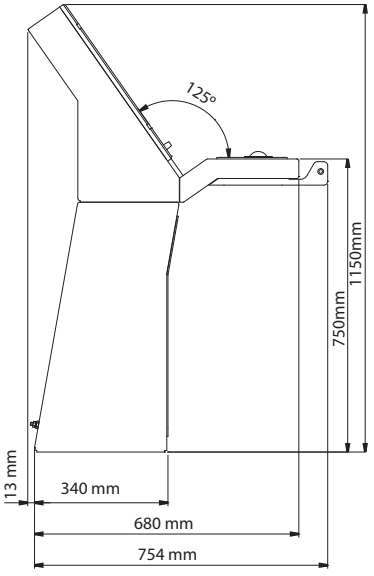


26" Monitor

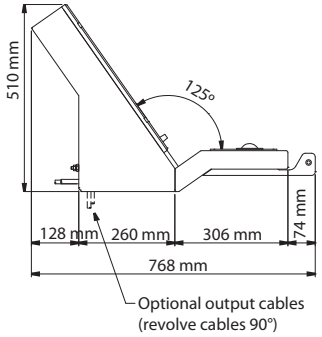


19" and 23" Monitor

SIDE VIEW

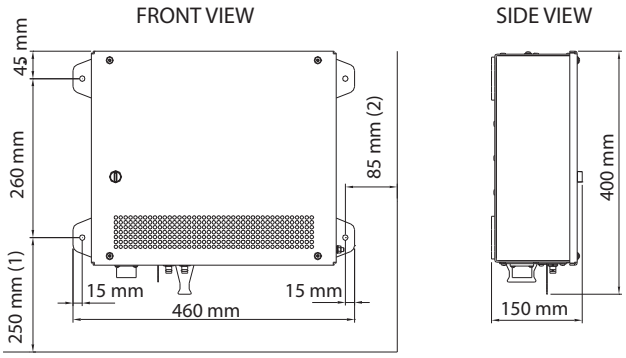


19", 23" and 26" Monitor



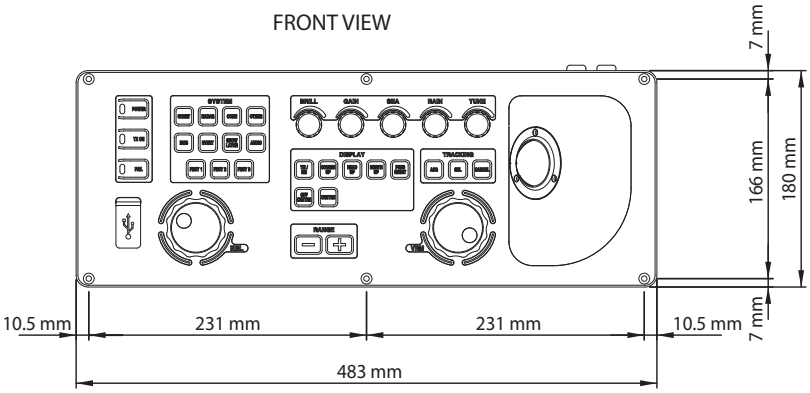
19", 23" and 26" Monitor

ARGUS CORE UNIT

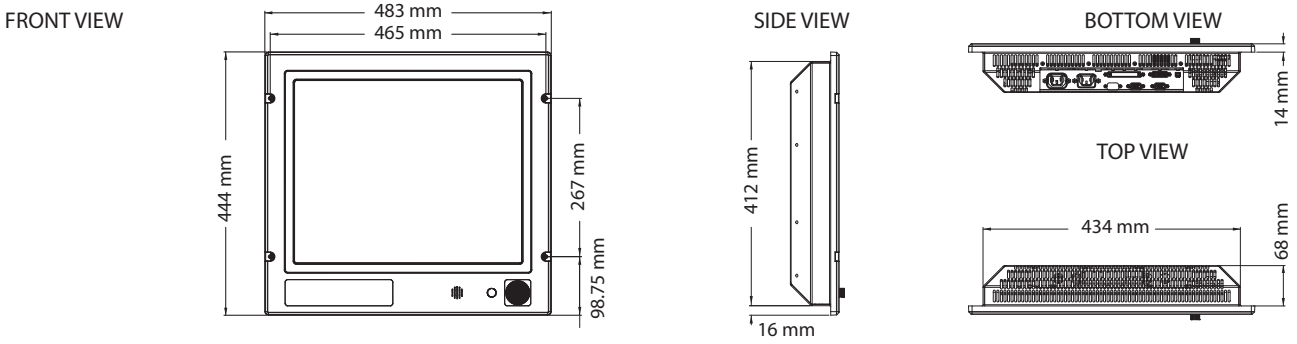


(1) Minimum distance to the floor
(2) Minimum distance to the wall and to others equipments

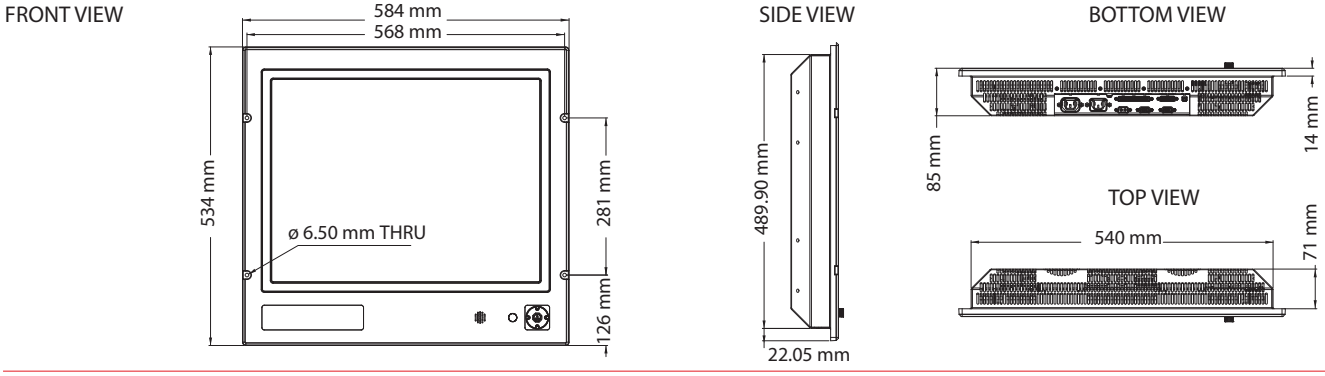
ARGUS RADAR KEYBOARD



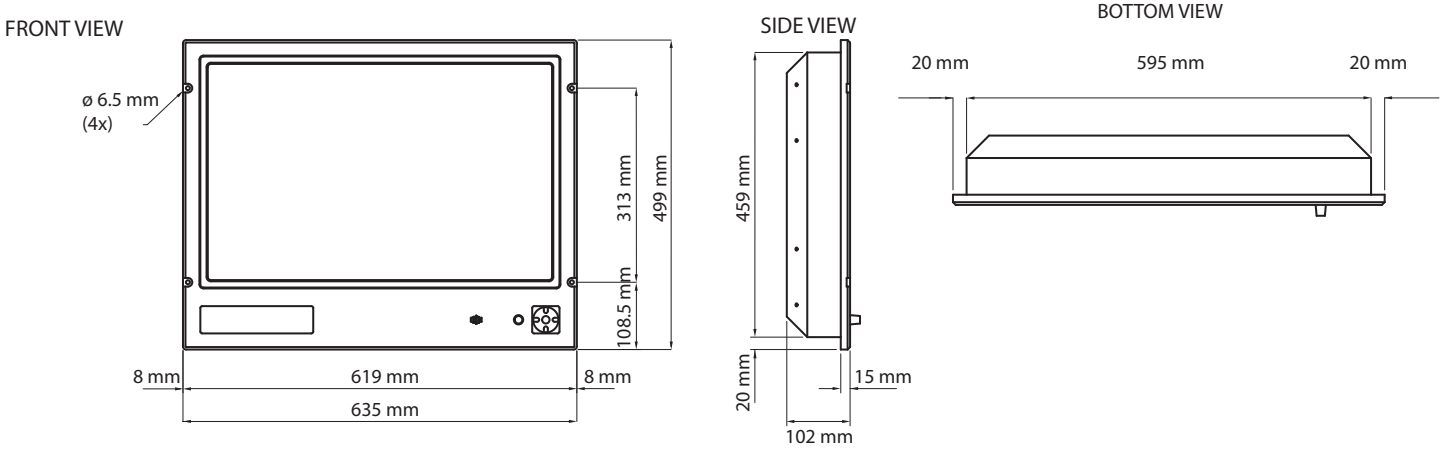
ARGUS RADAR 19" MONITOR



ARGUS RADAR 23" MONITOR

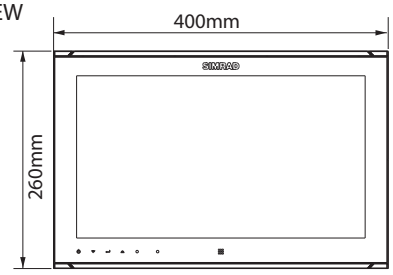


ARGUS RADAR 26" MONITOR

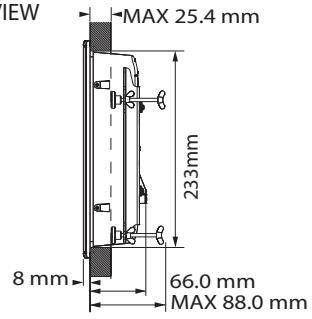


16” MO16-P WIDE SCREEN

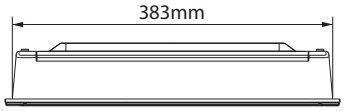
FRONT VIEW



SIDE VIEW

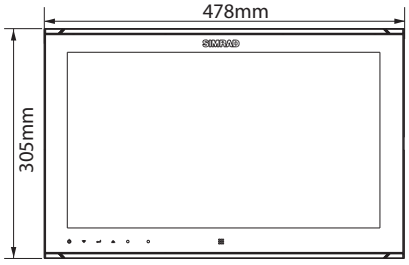


BOTTOM VIEW

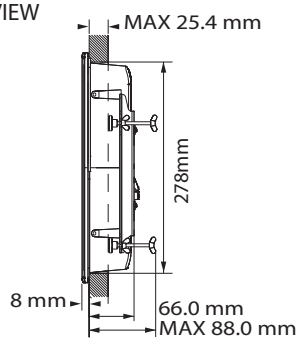


19” MO19-P WIDE SCREEN

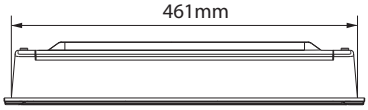
FRONT VIEW



SIDE VIEW

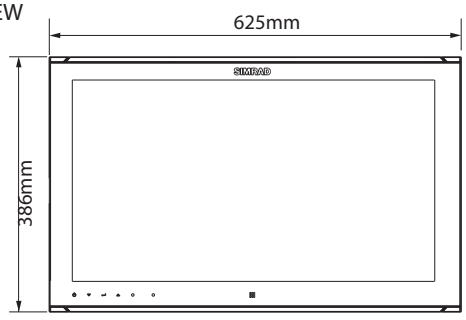


BOTTOM VIEW

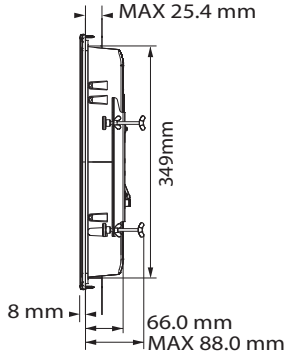


24” MO24-P WIDE SCREEN

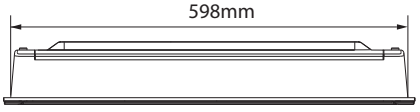
FRONT VIEW



SIDE VIEW

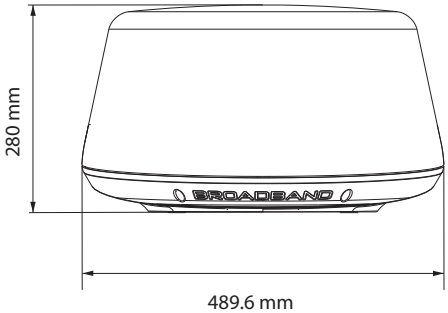


BOTTOM VIEW

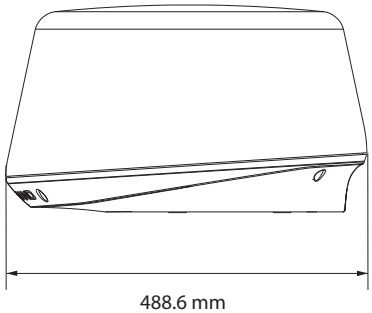


4G™ BROADBAND RADAR

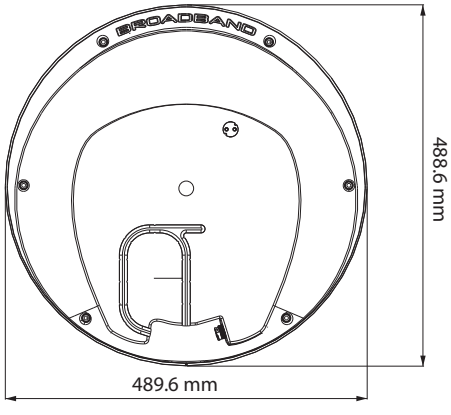
FRONT VIEW



SIDE VIEW



BOTTOM VIEW



Technical Specifications

ARGUS SPECIFICATIONS

DISPLAYS	
Monitor - size and resolution	19" LCD - 1280x1024 23" LCD - 1600x1200 26" LCD Wide screen - 1920x1200 16" MO16-P Wide Screen 1366x768 19" MO19-P Wide Screen 1366x768 24" MO24-P Wide Screen 1920x1080
Radar picture	>180 mm (approval pending) / >250 mm / >320 mm
Presentation Modes	Day/Night modes
Relative motion (RM)	Head, Course and North Up
True Motion (TM)	Course and North Up
Off-centering	Up to 50% of range scales in use
Range Scales	0.125; 0.5; 0.75; 1.5; 3; 6; 12; 24; 48; 96 nm
Range Resolution	3 m on 0.75 nm range scale
Azimuth resolution	0.1°
Trackball	Polar and Geographical coordinates. Continuously displayed
Diagnostic	On-line diagnostic programs
TARGET TRACKING FACILITIES	
Acquisition	Manual or automatic up to 100 targets
Tracking	Automatic up to 100 targets
Auto acquisition / Guard Zones	One auto acquisition zone stabilized on Ownship heading and size/shape configurable. Four sectors with fixed width of 0.5 nm configurable as auto acquisition or guard zone
AIS FACILITIES	
Presentation	Up to 300 targets chosen as the nearest to own ship AIS overflow mechanism of priority
Safe checking	All 300 targets in sleep or activated stated
Auto acquisition / Guard Zones	Same zones as described for Target Tracking facilities. The System provides up to four Guard Zones
TRIAL MANOEUVERS	
Trial course	For Target Tracking and AIS target. Manually adjustable from 0° to 360° or automatically computed within135° with reference to present course.
Trial speed	Adjustable from 0 to 50 knots
Trial ROT	Adjustable from 1° to 60°/min
Trial time	Adjustable with 1 min increments
MAPPING	
Operator compiled maps up to 120 segments plus symbols and text strings with selectable colors and line styles.	
Map stabilization	Relative, true (Dead Reckoning) or geographic
Map storage	By name, on a built-in non-volatile memory. Transferable via USB Memory stick
Map adjustment	Position and Orientation
Parallel index	Four independent parallel index lines
Data readout	Own ship data ARPA target data AIS target data
System setting	Safe minimum CPA and TCPA, vector / past position / trial / trials time
OTHERS	
Alarms	Acoustic and visual warning for: Dangerous Target, Target in Guard Zone, Lost Target, System Failure and external interface sensors (EPFS and AIS).
Other features	Anchor watch, echo reference speed (not for AIS enabled systems), EPFS speed.
Inputs	Serial interface NMEA0183 (IEC 61162-1/2)Gyro, Speed log, EPFS, AIS, Wind sensor, Ext. Alarm Interface
Outputs	Serial interface NMEA 0183 (IEC 61162-1/2) RATTM-RAOSD-RARSD-RAALR sentence AIACK for AIS alarm acknowledge, RATTD, RATLB, Dead Man Alarm, Power Fail, Danger Target, Video output for VDR
Gyro interfaces	Synchro: . Voltage value: 50 ÷ 115 Vac +/- 10% (reference) . 50/60 Hz or 300/400 Hz . Gear ratio: 1:360, 1:180, 1: 90, 1:36 Stepper: . Voltage value: 15 to +100 V positive (Vef) -15 to -100 V negative (Vef) . Gear ratio: 1:360, 1:180, 1: 90, 1:36 Stepper rectified: . Voltage value: 100 Vac (Vef) . Frequency: 50/60 Hz or 300/400 Hz ±6% . Gear ratio: 1:360, 1:180, 1: 90, 1:36 Serial: . RS422 standard FNMEA or RS232 . Load: ≥ 7 KΩ, terminated 120 Ω
Other interface	Dual Ethernet 10/100Mbit/s USB 2.0 port
ENVIRONMENTAL CONDITIONS	
Operating temperature	Display Unit: -15° to 55°C (IEC 60945 protected equipment) Antenna group: In-door -15° to 55°C Out-door, std -25°C to 55°C Out-door option: Down to -40°C (Pedestal with heater)
Storage Temperatures	25°C to 70°C (IEC 60945)
Relative humidity	Up to 93% at 40°C (IEC 60945)
IP class	IP41 (display)
Vibrations	As per IEC 60945
Power supply	Display Unit: 220/115 VAC 50/60 Hz (30 W) SRT X-Band Radar: 220/115 VAC 50/60 Hz (300 VA) Fed by Core unit
Power consumption	500 W max (depending on monitor and wind load)
Type testing in accordance with	IMO-Resolution A.278 (VIII), A.694 (17), A.823 (19), MSC 191 (79), MSC 192 (79) EN 62388 Ed.1.0, 2008 EN 62288 Ed.1.0, 2008 EN 60945 Ed.4.0, 2002 incl. Corr.1, 2008 EN 61162-1 Ed.4.0, 2010 EN 61162-2 Ed.1.0, 1999

X-BAND RADAR UP-MAST			
Peak Power (kW)	12 or 25		
Pulse length (nsec)	60 – 250 - 800		
PRF (Hz)	3000-1500-750		
Antenna model	**6X**	**9X**	**12X**
Gain (dB)	29	31	32.5
Horizontal beam width at -3 dB (°)	1.3	0.9	0.7
Vertical beam width at -3 dB (°)	22	22	22
Weight of Antenna incl. Pedestal with Transceiver (kg)	40	44	49
Nominal Rotation speed (RPM)	22 or 40	22 or 40	22

S-BAND RADAR UP-MAST	
Peak Power	30
Pulse length (nsec)	60 – 250 - 800
PRF (Hz)	3000 - 1500 - 750
Antenna model	12S/LP
Gain (dB)	27
Horizontal beam width at -3 dB (°)	1.9
Vertical beam width at -3 dB (°)	24
Weight of Antenna incl. Pedestal with Transceiver (kg)	125
Nominal Rotation speed (RPM)	20

GRAPHIC FUNCTIONS
True or relative time adjustable vectors
Target identification number, track-ball marker and true marks
AIS identification number, ship names or call signs
Time adjustable past position plots
Four independent parallel index lines
Waypoints and Route from Electronic Position Fixing Systems
Own ship shape and activated AIS target shape on lower range scales

BROADBAND RADAR SPECIFICATIONS

GENERAL	
Compliance	FCC/IC/R&TTE FCC ID: RAY3G4G IC ID: 4697A-3G4G Human Exposure General Public Safety Limit – touch dome anywhere.
Environmental	IEC60945 4th edition 2002-2008 Operating Temperature: -25º to +55ºC Relative humidity: +35ºC, 95% RH Waterproof: IPx6
Relative wind velocity	51 m/sec (Max:100 Knots)
Power consumption	Operating: 18W (Typ.) @ 13.8VDC Standby: 2W (Typ.) @ 13.8VDC ~ 150ma
DC input (at end of radar cable)	9V to 31.2Vdc (12/24 Volt systems). Reverse polarity protection
Transmitter Source (pre-heating time)	No magnetron – Instant On™
Outside dimensions	Height 280mm x Diameter 488mm
Weight (no cable)	7.4 kg
RADAR AND ANTENNA PARAMETERS	
Radar Ranges	200' to 24nm with 17 range settings (nm/sm/km)
Rotation	24/36 rpm +/- 10%; Mode Dependant
Transmitter frequency	X-band - 9.3 to 9.4Ghz
Transmitter source (warm-up time)	No Magnetron – all solid state. Instant On™
Plane of polarization	Horizontal Polarization
Transmitter peak power output (at antenna port)	165mW (nominal)
Main Bang Dead Zone & Tuning	None – not a pulse radar
Sea and Rain Clutter	5X less than a pulse radar
Sweep Repetition Frequency	200Hz
Sweep Time	1ms
Sweep Bandwidth	75MHz max
Horizontal Beam width (Tx and Rx antenna)	5.2º+/-10% (-3dB width)
Vertical Beam width (Tx and Rx antenna)	25º+/-20% (-3dB width)
Side lobe level (Tx and Rx antenna)	Below -18dB (within ±10j);Below -24dB (outside ±10j)
Noise figure	Less than 6dB
COMMS/CABLING/MOUNTING	
Communication Protocol	High Speed Ethernet and Serial
Heading	NMEA2000/Simnet (with RI-10 interface box)
Inter Connecting cable length	20m standard with RJ45 thin custom connector – Display model dependent
Maximum inter-connecting cable length	100m
Bolts (4)	M8x30 - 304 stainless steel
Footprint	W233mm (port/starboard) x L141.5mm

ARGUS RADAR SYSTEMS PART NUMBERS

Part Number	Description
000-10421-001	4G Broadband Radar including 20m (66 ft) scanner cable, RI10 interface box, 1.8m (6 ft) yellow Ethernet cable
000-10496-001	Argus 12U/6X P HSC System - includes 12kW Upmast Scanner with 6' Antenna, Control Panel and Core Unit
000-10497-001	Argus 12U/6X P System - includes 12kW Upmast Scanner with 6' Antenna, Control Panel and Core Unit
000-10498-001	Argus 12U/9X P HSC System - includes 12kW Upmast Scanner with 9' Antenna, Control Panel and Core Unit
000-10499-001	Argus 12U/9X P System - includes 12kW Upmast Scanner with 9' Antenna, Control Panel and Core Unit

Part Number	Description
000-10500-001	Argus 25U/6X P HSC System - includes 25kW Upmast Scanner with 6' Antenna, Control Panel and Core Unit
000-10501-001	Argus 25U/6X P System - includes 25kW Upmast Scanner with 6' Antenna, Control Panel and Core Unit
000-10502-001	Argus 25U/9X P HSC System - includes 25kW Upmast Scanner with 9' Antenna, Control Panel and Core Unit
000-10503-001	Argus 25U/9X P System - includes 25kW Upmast Scanner with 9' Antenna, Control Panel and Core Unit
000-11753-001	Argus 30U/12S (S-Band) System - includes 30kW upmast transceiver with 12' Antenna, Control Panel and Core Unit

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7 YEAR

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ON BOARD

The OnBoard Advantage Program provides customers with the option to receive warranty service by a Certified Dealer onboard their vessel for the first 2 years.

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FAST FIX

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EXTENDED WARRANTY

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SYSTEM BUILDER

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24/7

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CUSTOMER PORTAL

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VESSEL PORTAL

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TRAINING

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