Aegir17



KONGSBERG



Aegir SSA (Subsea Situational Awareness) is a family of commercial sonar systems designed to provide continuous underwater awareness for maritime security, safety, navigation, and infrastructure protection applications. Developed by KONGSBERG, the Aegir family combines proven acoustic sensing technology with compact form factors, simplified integration, and flexible deployment options.

Long-range 360° sonar for Subsea Situational Awareness

Aegir17 is a long-range, 360-degree sonar suited for larger crewed and uncrewed maritime platforms, including patrol and coastguard vessels. Its low frequency and large transducer array enable operational ranges exceeding 10 000 meters in some configurations, giving operators more time to assess underwater threats and hazards. Actual detection range depends on the target and environmental conditions.

Built on KONGSBERG's long-standing sonar expertise, Aegir enables operators to enhance situational awareness below the waterline and supports safer navigation and informed operational decision-making. The sonar family is designed as a commercial off-the-shelf (COTS) solution suitable for civilian and governmental applications with large volumes and short delivery time.

Typical applications

- Vessels and uncrewed platforms used for monitoring purposes focusing on long range detection capabilities
- Protection of critical maritime infrastructure
- Port and harbor security
- Offshore asset monitoring
- Coastal surveillance and situational awareness
- Navigation support and obstacle detection
- Long-range surveillance of approaches to sensitive maritime areas

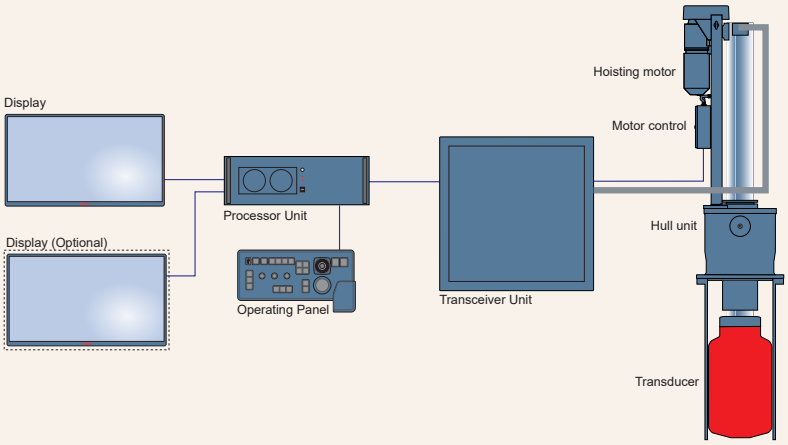
FEATURES

- Continuous underwater monitoring and awareness
- Detect, classify and track - with world class performance
- Very long range, with the ability to track targets all the way into the vessel or platform using frequency modulated transmission
- Quadping ®: four simulataneous pings detect and follow targets throughout the water column
- Fully stabilized narrow beams and state-of-the-art signal processing for heavy weather, hard bottom, open waters and weak targets
- Flexible software with open integration approach (API) for maritime systems and platforms
- Optional AI-enabled virtual sonar operator

BENEFITS

- Improved underwater situational awareness
- Enhanced maritime safety and security
- Increased visibility around critical assets and infrastructure
- More time to assess underwater threats and hazards through long-range detection and detailed sonar imagery
- Support for autonomous and remotely operated maritime operations

Generic vessel system drawing



Technical specifications

Aegir17

Sonar

Operating frequency	14 kHz to 24 kHz
Range	25m to 14000m[1], actual range will vary with environmental parameters and license restrictions
Hortizontal coverage	Omni
Vertical beamwidth	4.6°-11.3° depending on settings
Transceiver channels	384
Pitch & roll stabilisation	±20°
Pulse types	CW, LFM (CHIRP), Auto
Modes	QuadPing®, Horizontal, Vertical, Plane, Inspection

Tilt function

Horizontal	-6° to +60°
Vertical	-6° to +60°
Plane	-6° to +85°
Inspection	-6° to +60°

Note: The tilt limits depend on the opening angle of the vertical beam. This means that you may not always be permitted to select the maximum specified tilt limits.

Hull unit

Voltage	230/380/440 VAC, 3-phase
Consumption	3000 VA
Lowering depth	1600/2100 mm
Maximum speed	16 kts @ 1.6 m, 11 kts @ 2.1 m
Auto raise	Yes

Transceiver unit

Voltage requirement	230 VAC, 47-63 Hz, single phase, nominal
Maximum voltage deviation	15%
Maximum transient	20% of nominal voltage, recovery time 3 seconds
Power consumption	600 VA (Approx)

Processing unit

Model	HT20470 AC/DC
Voltage requirement	100/240 VAC
Power consumption	500W@230VAC

Interface

Input	NMEA 0183, DBT, GGA, GGK, HDG, HDT, VTG, KM Binary
Output	TLL, API
Operating system	Windows
Supported languages	20
Serial interface I/O	Multiple ports available
Ethernet interface	Four ports available
Video output	Three display ports

Weights and dimensions

Aegir17 Hull unit 1.6 meter stroke

Flange diameter	760 mm
Installation trunk inner diameter	570 mm
Number of holes in the flange	24
Total height	3768 mm
Height above installation trunk	2518 mm
Weight (approximately)	1065 kg

Aegir17 Hull unit 2.1 meter stroke

Flange diameter	760 mm
Installation trunk inner diameter	570 mm
Number of holes in the flange	24
Total height	4268 mm
Height above installation trunk	3018 mm
Weight (approximately)	1115 kg

Transceiver unit

Dimensions (LxWxH)	551×600×777 mm
Weight	65 kg

Environmental specifications

Operating temperature range	0 to +50°C
Storage temperature	-20 to +70°C
Relative humidity	5 to 95% relative, non-condensing

[1] *Above 5000 m requires export license*

Specifications subject to change without any further notice.

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