Aegir57



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.

Aegir57 is designed for use on fixed installations, buoys and uncrewed surface vessels (USVs) where size is key. Aegir supports the detection, classification, tracking, and monitoring of underwater objects and activities in ports, harbours, coastal areas, offshore installations, and other critical maritime environments.

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, governmental, and applications with large volumes and short delivery time.

Typical applications

- Protection of critical maritime infrastructure
- Port and harbour security
- Offshore asset monitoring
- Coastal surveillance and situational awareness
- Navigation support and obstacle detection
- Uncrewed and autonomous maritime operations
- Research and monitoring platforms



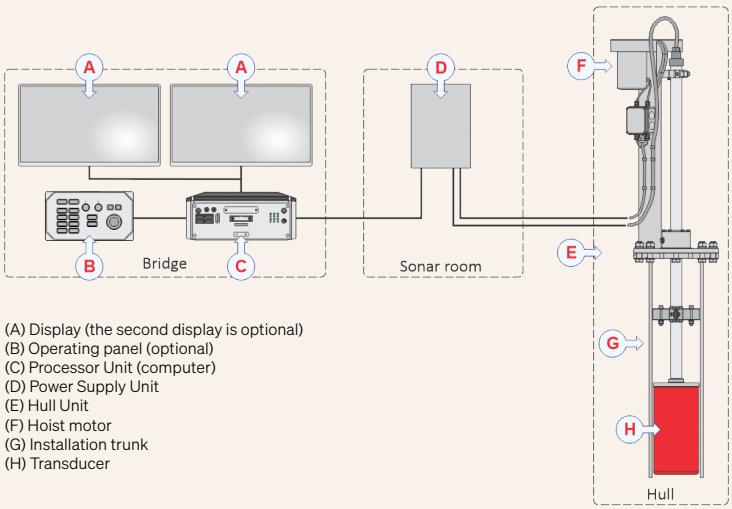
FEATURES

- Continuous underwater monitoring and awareness
- Detect, classify and track - with world class performance
- Compact and scalable system architecture
- Flexible deployment on fixed and mobile platforms
- Open integration approach for maritime systems and platforms
- Optional AI-enabled operational support through virtual sonar operator services

BENEFITS

- Improved underwater situational awareness
- Enhanced maritime safety and security
- Increased visibility around critical assets and infrastructure
- Reduced operational complexity through scalable deployment options
- Support for autonomous and remotely operated maritime operations

Generic vessel system drawing



(A) Display (the second display is optional)
(B) Operating panel (optional)
(C) Processor Unit (computer)
(D) Power Supply Unit
(E) Hull Unit
(F) Hoist motor
(G) Installation trunk
(H) Transducer

Technical specifications

Aegir57

Sonar

Operating frequency	55 kHz to 59 kHz
Range	25m to 2500 m
Hortizontal coverage	Omni
Vertical beamwidth	10°
Transceiver channels	256
Pitch & roll stabilisation	±20°
Pulse types	CW, LFM (CHIRP)
Modes	QuadPing®, Horizontal, Vertical, Plane, Inspection

Tilt function

Horizontal	-10° to +60°
Vertical	0° to +90°
Plane	-10° to +90°
Inspection	-10° 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	110/220 VAC, 24 DC
Consumption	1000 VA
Lowering depth	400/600 mm
Maximum speed	15 knots
Auto raise	15 knots (user adjustable)

Transducer ex. Hull unit

Voltage	110/240 VAC, 24 DC
Consumption	200W max@24VDC
Inrush current at start-up	10A up to 10 seconds @24 VDC

Processing unit

Model	Hatteland HTB40K
Voltage requirement	24 VDC
Power consumption	75 W @ 24 VDC (max.)

Interface

Input	NMEA 0183 (10 Hz input rate for Heading required)
Output	NMEA 0183, incl. TLL, DBT, GGA, GGK, HDG, HDT, VTG
Operating system	Windows
Supported languages	20
Serial interface I/O	Multiple ports available
Ethernet interface	Four ports available
Video output	Two Display Ports

Weight and dimensions

Aegir57 Hull unit - full size (600 mm)

Flange diameter	343 mm
Installation trunk inner diameter	193.7 mm (8 inch)
Number of bolts in the flange	8
Total minimum height	950+750 mm
Height above installation trunk	950 mm
Minimum tube/trunk height	750 mm
Minimum weight (shaft length dependent)	78 kg

Aegir57 Hull unit - compact size (400 mm)

Flange diameter	343 mm
Installation trunk inner diameter	193.7 mm (8 inch)
Number of bolts in the flange	8
Total minimum height	759+550 mm
Height above installation trunk	759 mm
Minimum tube/trunk height	550 mm
Minimum weight (shaft length dependent)	71 kg

Aegir57 Transducer

Weight with cable	19 kg
Height	359.4 mm
Diameter	180 mm

Environmental specifications

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

Specifications subject to change without any further notice.

Kongsberg Discovery AS
P.O. Box 111
N-3191 Horten, Norway

Switchboard: +47 33 03 41 00
Global support: +47 33 03 40 00
kd.sales@kd.kongsberg.com