

System Overview



Surround-View Monitor Cameras



Camera Conversion Unit



Object Recognition Unit

Physical specification

Width	90 mm (3.54 in).	225.79 mm (8.89 in).	248.20 mm (9.77 in).
Height	89.79 mm (3.54 in).	180.00 mm (7.09 in).	187.00 mm (7.36 in).
Depth	97.81 mm (3.85 in).	30.00 mm (1.18 in).	169.00 mm (6.65 in).

Power specification

Nominal supply voltage	5 V dc	12 V / 24 V dc	12 V / 24 V dc
Operating voltage range	4.5 V to 5.5 V dc	10.8 V to 32 V dc	10.8 V to 32 V dc
Power consumption	1.4 W (maximum)	25 W (maximum)	45 W (maximum)
Current	240 mA (nominal) @ 5 V dc	2.1 A (nominal) @ 12 V dc / 1.0 A (nominal) @ 24 V dc	1.5 A (nominal) @ 12 V dc / 0.9 A (nominal) @ 24 V dc

Environmental specification

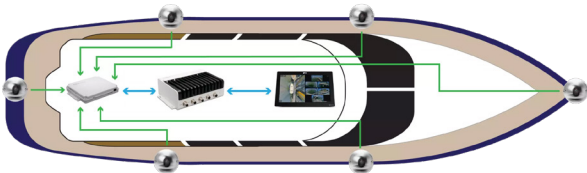
Operating temperature	-30°C (-22°F) to +75°C (+167°F)	-30°C (-22°F) to +75°C (+167°F)	-15 C (+5 F) to +55 C (131 F)
Storage temperature	-40°C (-40°F) to +85°C (+185°F)	-40°C (-40°F) to +85°C (+185°F)	-30 C (22 F) to +70 C (158 F)
Relative humidity	Up to 90% @ 40°C (104°F)	Up to 90% @ 40°C (104°F)	Up to 93% @ 40°C (104°F)
Waterproof rating	IPx7	IPx7	IPx6

Conformance

Europe, Australia & New Zealand	EN 60945:2002
USA	CFR47 Part 15
Canada	ICES-003
Product markings	UKCA, CE, RCM, FCC, ICES, WEEE

System diagram

The complete system consists of 6 Surround-View Monitor cameras, Object Recognition Unit and the Camera Control Unit connected seamlessly to an Axiom Chartplotter display at the helm.



NeuBoat Dock

360° Surround-View
Situational Awareness



NEUBOATDOCK www.avikus.ai

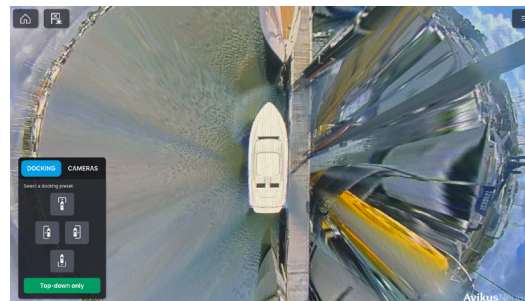
Situational awareness for docking

Even for experienced boaters, docking in tight quarters can be a stressful experience. Avikus NeuBoat Dock is a situational awareness solution designed to make docking effortless. When approaching the dock, the captain simply selects the "Avikus Dock" tile on the Axiom chartplotter. Six discreet fish-eye cameras installed around the hull of the boat provide real-time feed giving the captain a clear picture of the boat's movements and distance to the dock.

Compatible boats: designed for vessels in the 50' (15 meters) range

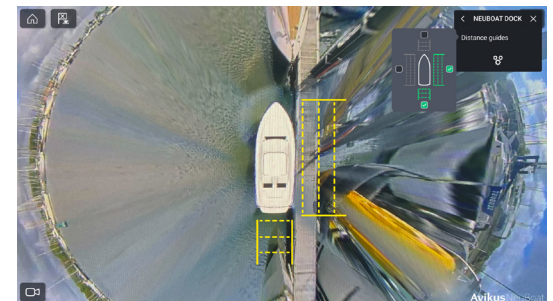
Compatible MFDs: Raymarine Axiom chartplotters

Calibration: Can be performed on land or in the water, without cumbersome calibration mats or post used in other systems.



Top-down view

360° bird's eye perspective view.



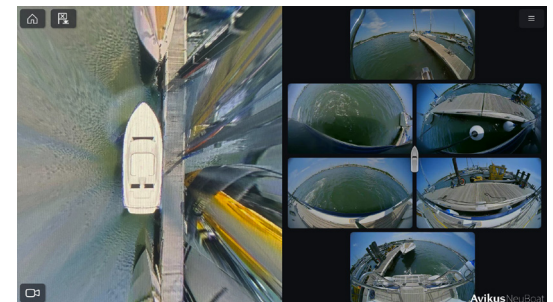
Distance guide view

Shows distance to dock in 1-meter increments.
Can be toggled on or off.



Single camera view

(image depicts stern view)



All camera view

Shows top-down view in left pane and
all 6 individual camera views in right pane.

