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the crew

www.yotcru.com REPORT



The Poseidon

What is it? A night vision tri-camera system from Vei OceanView Technologies.

What does it do? A system with three camera feeds that can all be viewed at any one time: an infrared thermal camera, an ultra-low-light camera and a high-resolution colour camera with more than 300x zoom for daytime use. The low-light camera has a ten-times zoom and can register light as low as 0.00015 lux (equivalent to approximately the total starlight in an overcast sky – ie very little

light). The camera unit has a 360° continuous pan capability (ie an unlimited horizontal turn) and can track targets via NMEAS integration of radar ARPA and AIS data. It is stabilised so that in rough seas the image viewed in the bridge display is still and definable, according to the manufacturer. The unit has a quick-release base for easy servicing or system sharing between vessels. Captain Mark Hol had the Poseidon installed and has since recommended it to other captains. He is very happy with its performance and found it of particular use at night-time when travelling through the Gulf of Aden. His one regret is that he did not install the upgraded, more expensive version with tracking.

How much is it? Approx \$75,000

www.vei-systems.com



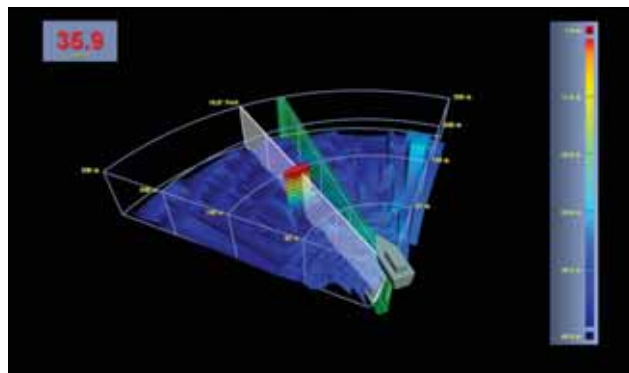
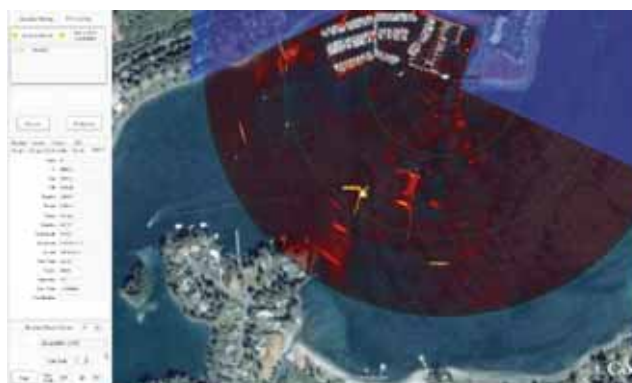
The Sentinel IDS®

What is it? A high-frequency sonar to detect underwater intruders from Sonardyne.

What does it do? Originally built to military requirements for the US Navy, this system uses high-frequency sonar. According to Sonardyne, the system is able to detect and track underwater intruders in a 360° protection zone at a distance of up to 0.32nm. Interestingly, the system is able to differentiate between human divers and other marine mammals to minimise false alarms; future developments will include the incorporation of an underwater loudhailer to add warning and communication capabilities. The small size (0.44m height, 0.33m diameter) and weight (35kg) of the system make it suitable for most vessels over 40m, according to the manufacturer. A typical system comprises: a lightweight sonar head, processor platform, command workstation and detection, tracking and classification software. The system has already been installed on a number of superyachts.

How much is it? Approx \$300,000

www.sonardyne.com



The FS-3DT

What is it? A bistatic 3D forward-looking sonar from FarSounder.

What does it do? This sonar allows moving vessels to "see" what is in the upcoming water and how far objects or the sea floor are, to a depth of 50m. This sonar technology mounts the transmitter and receiver in separate, small modules arranged horizontally or vertically. This separation of the modules means the system is adaptable for use on a number of more streamlined hull types, including multihulls. A three-dimensional picture of what is ahead of the vessel is created for the sea floor and in-water objects. Whales, floating containers and other hazards can therefore be avoided when in transit, with a 60–90° field of view. At speeds of 20–25 knots the FS-3DT (and bistatic version) has a detection range of 0.25nm, and the recently introduced Extended Range system can detect objects at up to 800m with a speed of up to 25 knots. Additionally, the system can be adapted for use in other underwater security applications, such as vessel or port perimeter surveillance and diver or ROV/AUV detection. A specific diver localisation product, the FS-3DL, will soon be released by the company.

How much is it? \$90,900–120,855 (bistatic version)

www.farsounder.com