

DiveVisionTracker

Rugged, Waterproof Subsea Sensor

Vehicle and Diver Mounted, Ruggedized and Waterproof Subsea Sensor

The DiveVisionTracker is a ruggedized and waterproof subsea sensor comprising an ultra-low-light IR-sensitive camera and a precision motion sensor. Typically mounted on a diver's face mask or helmet with an adjustable tilt bracket that can be tailored to the diver's preference, it forms part of the DAVD Flex augmented reality system and delivers excellent imagery in low-light conditions, while tracking the motion of the diver's head and providing a live feed to the compass displayed within the Head-Up Display. The DiveVisionTracker can also be vehicle-mounted, giving a clear RGB image of the scene ahead of the vehicle to complement any forward-looking sonar.

The DiveVisionTracker is a part of the wider, highly configurable **DAVDflex** solution, and is designed to be integrated with industry-leading solutions without sacrificing performance, reliability or ease of use. The **DAVDflex** integrates topside control, a Head-Up Display (HUD), and digital communications for divers, facilitating seamless real-time information exchange between divers and supervisors via augmented reality displays in the diver's helmet. Divers access critical technical data and support from surface teams to optimize mission outcomes and enhance underwater safety.



Some of the innovative *DiveVisionTracker* features available are:



Ruggedized and Waterproof

The DiveVisionTracker's ruggedized housing protects against impacts and extreme environments. Its waterproof construction ensures reliable performance even when exposed to demanding use cases



Night Vision Supported

Night Vision capability is supported, allowing effective operation in low-light or zero-visibility conditions. This enhances situational awareness by enabling operators to clearly observe their surroundings at night or in dark environments, ensuring safe and efficient performance during operations



100 m (328 ft) Depth Rated

Engineered for reliable performance underwater, DiveVisionTracker is rated for depths of up to 100 metres. Its robust sealing and pressure-resistant design ensure durability and functionality during prolonged submersion, making it ideal for marine environments.



Integrated AHRS to provide Diver Heading Measurement

An integrated Attitude and Heading Reference System (AHRS) is incorporated to provide accurate diver heading measurements. The DiveVisionTracker combines sensor data to determine orientation and direction, enabling reliable tracking of the diver's heading during underwater operations

Power Consumption	5V DC Input
Sensor	2MP CMOS
Quality	Full HD: 1920 x 1080 streaming at 30fps
Shutter	Electronic Rolling Shutter
Minimum Illumination	0.0005 Lux
Roll/Pitch Performance	0.2° RMS
Heading Performance	1° RMS
Dimensions (h x w x d)	50 mm x 50 mm x 94 mm Approx. (1.97" x 1.97" x 3.7" Approx)
Weight in Air	197 g (0.43 lbs)
Weight in Water	83 g (0.018 lbs)

