WATERLINKED 3D-15 SONAR

SKU: WL-3D-15

WaterLinked's Sonar 3D-15 is an advanced 3D multibeam imaging sonar with a range of 15 meters. It gives real-time 3D imagery for navigating in turbid water, and with Blueye it adds SLAM: navigation and mapping with 3D point clouds.

Supplier: WaterLinked



TECHNICAL SPECIFICATIONS

Compatibility

Compatible ROV models	X3, X3 Ultra, X7

Acoustic performance

Transducer frequency	1.2 MHz (low frequency) / 2.4 MHz (high frequency)
Field of view (H × V)	90° × 40° (1.2 MHz) / 40° × 40° (2.4 MHz)
Maximum range	15 m (1.2 MHz) / 4 m (2.4 MHz)
Minimum range	20 cm
Range resolution	1.5 mm
Angular resolution (H × V)	0.85° × 1.60° (1.2 MHz) / 0.45° × 0.85° (2.4 MHz)
Beam separation (H × V)	0.35° × 0.60° (1.2 MHz) / 0.16° × 0.60° (2.4 MHz)
Update rate	5 Hz (1.2 MHz) / 20 Hz (2.4 MHz)
Latency	200 ms
Sensor assist	Integrated AHRS/IMU

Electrical and interface

Input voltage	10–30 V DC
Power consumption	20 W in operation (60 W maximum at power-on), 3 W standby
Physical interface	3 m cable with interface module, 6 wires (power/Ethernet)
Communication	Ethernet (10/100/1000BASE-T), up to 10 Mbit/s
Protocol	WaterLinked API
Indicator	Status LED (power)
Web interface	3D (first-person) and 2D (plan) views

Mechanical

Dimensions (W × H × D)	120 × 80 × 40 mm
Weight in air	660 g
Weight in water	390 g
Depth rating	300 m
Material	Stainless steel 316, polyurethane
Operating temperature	–5 to 55 °C

Approvals

Certification	CE, RoHS compliant