

C3 – Underwater Stereo Camera

Key Features

The MarineSitu C3 underwater stereo camera has been specifically designed for integration in various deployment modalities to support the growing blue economy. It is equipped with a stereo camera pair on a 7.5 cm baseline and a 12 MP center color camera, enabling you to pull out important depth information as well as high-resolution imagery of your targets. With a sleek design and various mounting options, the C3 is ready to be integrated into your monitoring operations today. The C3 comes in three different models: C3-BR,

C3-MCBH8-POE, and C3-DBH13-UVC. The C3-BR is specifically designed to integrate with the BlueROV2, whereas the C3-MCBH8-POE and C3-DBH13-UVC both have SubConn connectors for deployments in applications, such as aquaculture, fish passage monitoring, or marine energy. All variants come pre-calibrated for underwater operations and are supported by our free image acquisition software, Madrona and our SaltySuite platform.

C3-BR

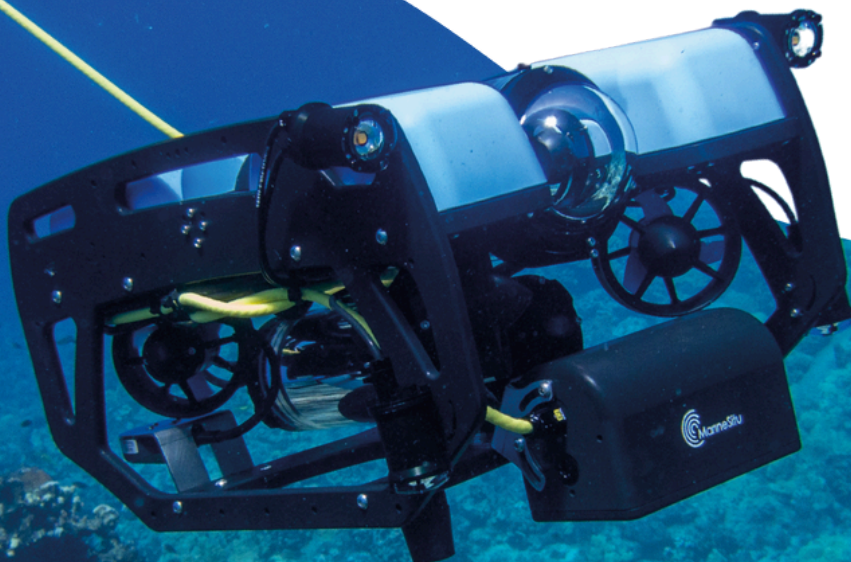
- Easily integrated into the Blue Robotics BlueROV2
- Pivoting mount to adjust viewing angle
- Madrona software extension available for download in Cockpit

C3-MCBH8-POE

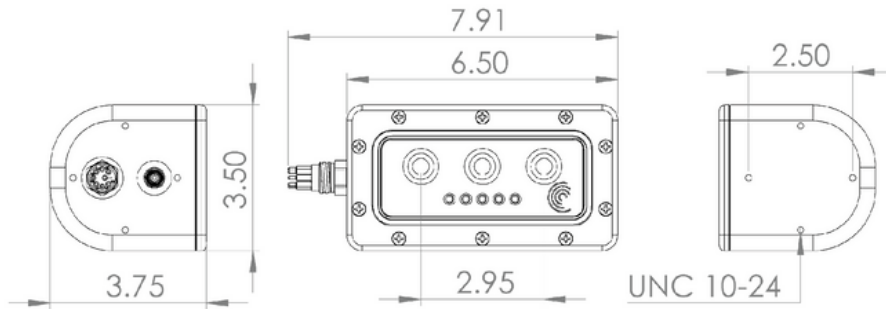
- Standalone, connectorized C3 powered by PoE
- Pivoting mounts and cable guards available

C3-DBH13-UVC

- Integrated antifouling lights to enable long-term deployments while keeping your viewport clear



Technical Specifications



Optical	Camera	Luxonis OAK-D S2 POE FF or OAK-D W POE
	Image Resolution	12 MP color camera, 1 MP stereo pair cameras
	Frame Rate	Max: 60 FPS in color, 120 FPS in stereo (1 Gbit bandwidth)
	Standard Model DFOV/HFOV/VFOV	Center: 59.6° / 53° / 41.3° Stereo Pair: 71.5° / 62.8° / 41.7°
	Standard Model Focal Range	Center: 50 cm – infinity Stereo Pair: 19.6 cm – infinity
	Wide Model DFOV/HFOV/VFOV	Center: 78.7° / 66.5° / 52.5° Stereo Pair: 89.5° / 80° / 55.5°
	Wide Model Focal Range	Center: 60 cm – infinity Stereo Pair: 18 cm – infinity
Electrical	Voltage	12 to 24 VDC (BR and UVC), 48 VDC (PoE)
	Power	3 W nominal and 5 W max at 12 VDC
	Comms	Ethernet
	Trigger Lines	Optional I/O triggers for second camera or lights
	Bandwidth	Up to 1 Gbit
Mechanical	Housing Materials	POM with quartz lens and 316 SS fasteners
	Connector	Blue Robotics ROV penetrator, SubConn MCBH8 POE, or SubConn DBH13
	Connectors	SubConn 13-pin power and Ethernet and 6-pin microcircular
	Vent Plug	SAE-4
	Depth Rating	1000 m
	Weight in Air	1.7 kg
	Weight in Water	0.43 kg