Aquorea Mk3 LED White

SubC Imaging

Hybrid strobe and lamp | Plug-and-play with subsea cameras

A high-efficiency, TTL synchronized subsea LED that operates as both a lamp and a strobe. It can be integrated into subsea ROV, observatory, drop, tow, and battery-deployed camera systems.



Available at two depth ratings, the Aquorea can simultaneously operate as a lamp and strobe. When taking a photo, the LED's activation time is tightly synchronized with the camera sensor exposure time to ensure the video stream is uninterrupted while collecting photos. SubC LEDs and lasers are plug-and-play when coupled with the Rayfin Camera.

Specifications		500m	6000m
Light Specs	Lamp Output	Up to 15000 Lumens	
	Colour	5000K	
	Beam Angle	80˚ (circular)	
	Strobe Output	32000+ Lumens	
	Reaction Speed	Approx. 190 Microseconds	
Electrical	Efficiency	180 Lumen/Watt @ 15˚C water	
	Protection	Short Circuit, UV-OV-RV, ESD, OT	
	Thermal Protection	Auto Dim/Shutoff	
	Control	Serial RS-485	
	Strobe	TTL 5V (active high)	
	Power	18-32 Vdc / 48-120 Watts	
Mechanical	Min./Max. Temperature	-10˚C - +20˚C in water	
	Materials	Sapphire, Anodized Aluminum	Sapphire, Grade 5 Titanium
	Weight	0.5kg in water, 1.2kg in air	0.9kg in water, 1.5kg in air
	Depth Rating	500m	6000m *(11,000m option available)*

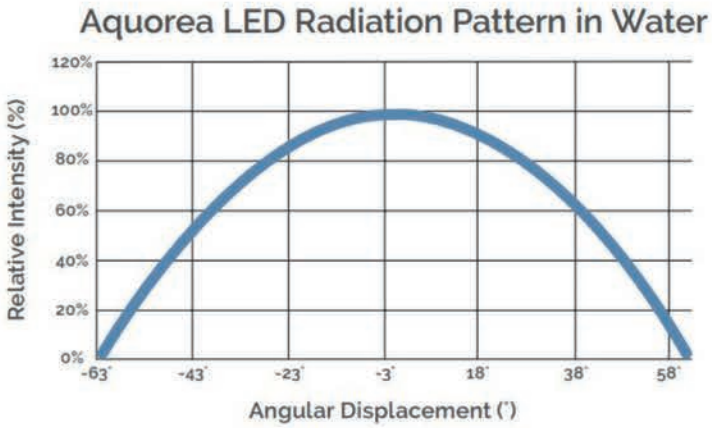
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Colour Options

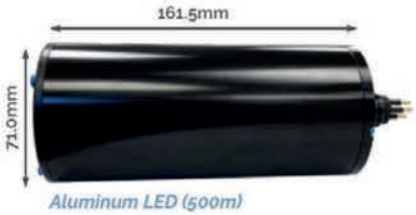
The Aquorea LED* is available in various specific deepsea purposes like far-red (734 nm) for natural species behavior studies, deep-blue (457 nm) for subsea fluorescence and leak detection, and other wavelengths to meet your needs.

**Colour options only available in 6000m*

Pin#	MCBH5M
1	GND
2	PWR
3	Strobe Enable
4	RS-485 B(+)
5	RS-485 A(-)







Aluminum LED (500m)



Titanium LED (6000m)