

Aquorea Mk3 LED Colour



Scientific wavelengths of light | Designed for deep-sea applications

The Aquorea Mk3 Colour is a high-efficiency, TTL synchronized subsea LED that can simultaneously operate as a lamp and strobe. Available in custom wavelengths, each LED Colour is designed for specific deep-sea applications:

- Far-red assists in capturing deepwater natural species behavior
- Deep-blue is ideal for bio-fluorescence and leak detection
- Additional wavelengths are available. *Contact us for more information.



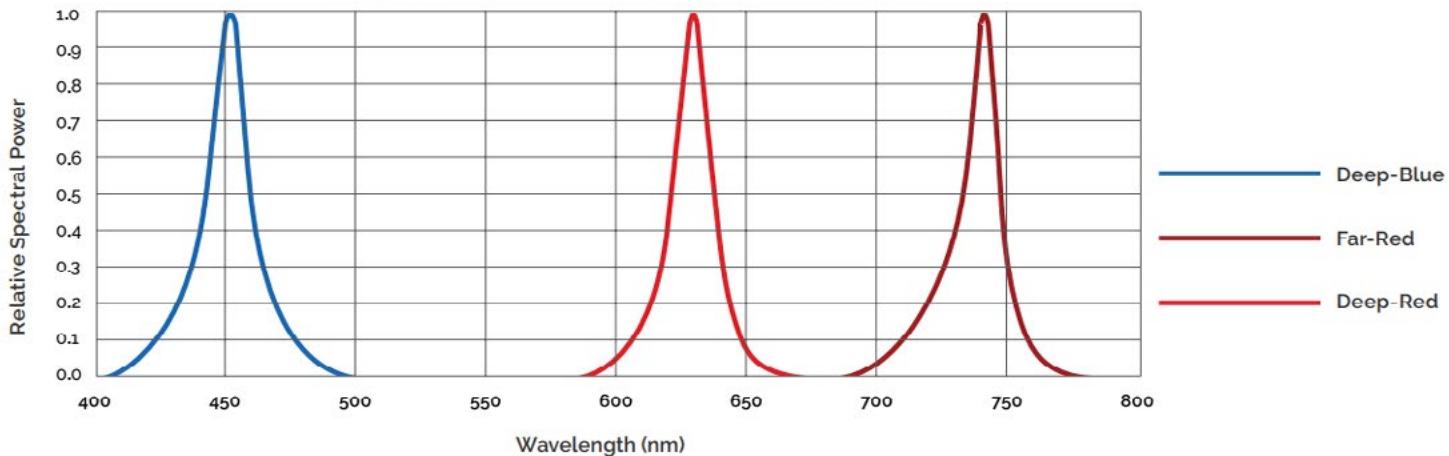
SubC LEDs and lasers are plug-and-play when coupled with the Rayfin camera and are easily integrated into subsea ROV, observatory, drop, tow, and battery-deployed camera systems.

Specifications		Deep-Blue	Deep-Red	Far-Red
Light Specs	Wavelength	457nm	624nm	740nm
	Intensity	2200 lumens	8400 lumens	108 µmols/sec
	Beam Angle	80% of the light is within an 80° beam 85% of the light is within an 90° beam		
	Reaction Speed	Approx. 190 microseconds		
Electrical	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 Watts		
Mechanical	Min./Max. Temperature	-10°C - +20°C in water		
	Materials	Sapphire, Grade 5 Titanium		
	Weight	0.9kg in water, 1.5kg in air		
	Depth Rating	6000m		

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Typical Relative Spectral Power Distribution



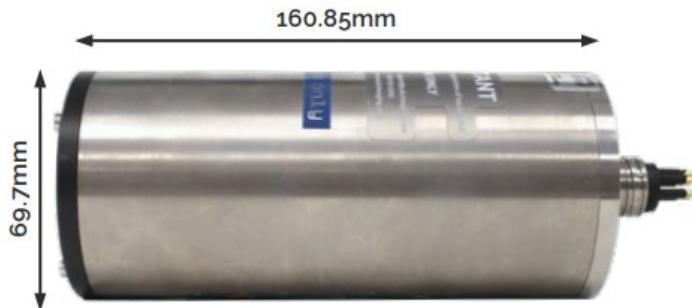
Deep-Red & Far-Red

The advantage of far-red light lies in the fact that most deep-sea creatures are unable to see in the red spectrum. The deep-red and far-red LEDs allow researchers to view biota in their natural behavior.

Deep-Blue

The deep-blue LED was designed for underwater biofluorescence and leak detection. Fluorescent chemicals absorb energy from light and then emit a different colour of light. Bio-fluorescence is the absorption and reemission of light from living organisms.

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



Our equipment is available for direct purchase or rental.
To speak with an expert or schedule a demo please [contact us](#).