

MantaRay Mk2 Parallel Lasers

Class 3R Laser Product

Precision points for reference in underwater photos

The MantaRay is a parallel beam laser designed for ROV and subsea systems. With a lifespan (MTBF) of at least 40,000 hours, the MantaRay laser is a dependable and reliable reference unit.

This laser projects two parallel beams that appear as green dots in images that are used to get distance and scale of underwater objects. It is lightweight, easily integrated with a subsea camera using a simple attachment, and is accurate to 5m distance. SubC LEDs and lasers are plug-and-play when coupled with the Rayfin camera.



Qualified for shipping within the USA, Canada and internationally.

Specifications		MantaRay Mk2 Parallel Lasers
Lasers	Parallelism	10cm ± 10mm @ 5m distance
	Output Power	≤5.00 mW
	Wavelength	520nm ± 10nm (green)
	Class	3R (avoid direct eye exposure)
	MTBF	40,000 hours
Electrical	Power	1.5 W per laser: 3W per parallel laser assembly
	Protection	Short circuit, over voltage, reverse voltage, ESD
	Min./Max. Temperature	-10°C - +30°C
	Voltage	15 Vdc - 32.5 Vdc
	Control	5 - 30 Vdc TTL modulation
Mechanical	Material	Sapphire, Grade 5 Titanium
	Depth Rating	6000m
	Weight (in air)	700g
	Weight (in water)	400g

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Complies with FDA performance standards for laser products except for conformance with IEC 60825-1 Ed. 3., as described in Laser Notice No. 56, dated May 8, 2019

LASER RADIATION AVOID DIRECT EYE EXPOSURE

Maximum output of laser radiation: ≤5.00 mW Emitted wavelength: 520nm ± 10nm





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Class 3R Laser Product



6000m

Titanium and sapphire construction

6000m depth rating

TTL Operation

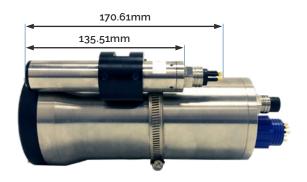
- The laser is disabled by default when power is applied. To enable, apply 5 30Vdc to Pin 3.
- When Pin 3 is left open or connected to GND, the output is disabled.

Included

- · Calibrated delrin mount for 89mm diameter camera
- Titanium hose clamps for attachment
- SUBC58-C-003 cable; MCBH5M to Y-splice 2x MCBH5F with locking sleeves







Pin #	MCBH ₅ M
1	GND
2	PWR
3	TTL Enabled
4	N/C
5	N/C



SubC is here to help you plan your next project.

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