

CT4005 & CT4007 Class 3R <5 mW Subsea Laser

Technical Specification

Model	CT4005 (Red, dot), CT4005/L (Red, line), CT4007 (Green, dot), CT4007/L (Green, line)
Housing	Titanium (Standard)*
Window	Sapphire
Depth Rating	6000 m
Dimensions	L 135 mm × D 30 mm
Weight	390 g (water) / 490 g (air)
Connector	MCBH2M
Input Voltage	9–30 VDC
Power Consumption	<300 mA
Laser Classification	Class 3R
Laser Output Power	<5 mW
Laser Type	Diode
Divergence	<0.75 mrad (Red), <0.4 mrad (Green)
Wavelength	635 nm (Red), 532 nm (Green)
Operating Temperature	-10 °C to +40 °C
Operating Life	50,000 hours

*Alternative housing materials available on request



Order Code: CT4005-TI (Red, Dot)
CT4005/L-TI (Red, Line)
CT4007-TI (Green, Dot)
CT4007/L-TI (Green, Line)

Subsea dot and line lasers for scaling and measurement applications

The C-Tecnics subsea lasers are compact, rugged solid-state units designed for underwater highlighting, identification, scaling, and measurement applications.

When used in pairs, the lasers can be mounted at a known calibrated distance to provide accurate visual scaling and dimensional reference during subsea inspection and survey operations. Available in both dot and line configurations, and in red or green variants, the range offers flexibility across a wide variety of underwater applications.

The units are Class 3R diode laser products with an output power of <5 mW and are available with either 635 nm red or 532 nm green wavelengths. The lasers can be powered from a 9–30 VDC supply, with integrated voltage and reverse polarity protection to support reliable operation in demanding subsea environments.

Applications: ROV operations, Survey, Marine scientific, Commercial diving

Rev 1.1 | May 2026 | DS-025