

Modulated Cobolt Dual Combiner

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The modulated version of the Cobolt Dual Combiner offers two attractive emission wavelengths from one small box. Through the integrating of a silent SRS shutter, the output beam can be modulated at up to 125 Hz with a very short rise time of <350 μs, with maintained 3% power stability and a completely dark state in OFF mode.

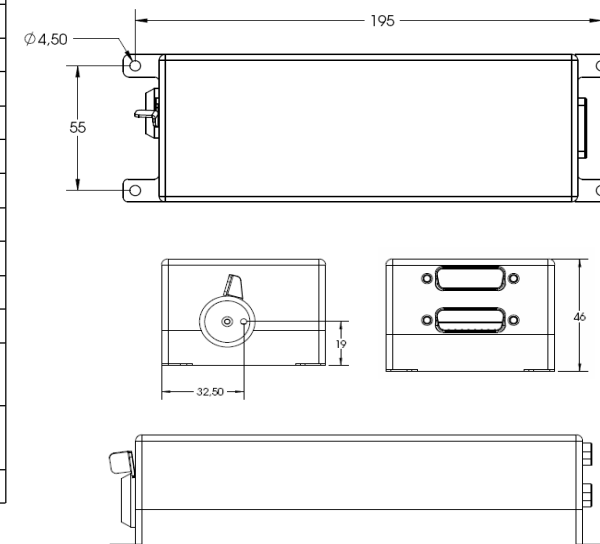
Each line can be individually addressed through a software application provided with the lasers, or through RS-232/USB communication.

The modulated Cobolt Dual Combiner™ is perfectly suited applications where high level of power stability and control of the delivered energies are required. The use of Cobolt's unique HTCure Technology™ for laser manufacturing provides a very high level of robustness and insensitivity to ambient conditions, which ensures excellent beam overlap and beam pointing stability. The modulated Dual Combiner is also available with any other 2-line combination of the Cobolt 04-01 series lasers.

Laser Specifications

Cobolt Dual Combiner is combining 04-01 laser models: Also available for single 04-01 laser	Wavelengths [nm]: Any two of 457, 473, 491, 515, 532, 561, 594
Spectral linewidth	<1 MHz (<0.01 pm)
Spatial mode	TEM ₀₀ M ² <1.1
Beam diameter at aperture	700 μm
Beam divergence (full angle)	<1.2 mrad
Beam overlap	<250 urad
Long-term stability (8 hr)	<3% (±3°C)
Beam pointing stability (over 10-40 °C)	<25 μrad/°C
Polarization ratio (linear)	>100:1, vertical
Total system power consumption	<70 W, typical <30 W
Operating temperature	10-40°C
Dual Combiner dimensions [mm] [inches]	190 x 65 x 46 7.6 x 2.6 x 1.8
Controller dimensions [mm] [inches]	190 x 72 x 28 7.6 x 2.9 x 1.1
Communication	RS-232 or USB

Dimensions



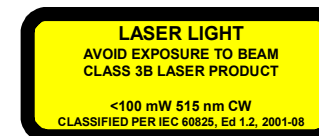
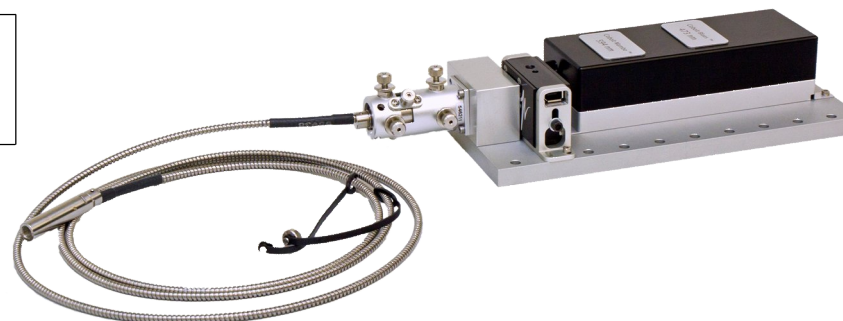
Shutter specifications

Modulation frequency (SR475 shutter)	125Hz (External TTL controller available)
Rise time	<350 μs

Options & Accessories

As seen in the image to the right:

- Mounting block FIC-03
- SM/PM or MM fiber coupling (Qioptiq, OZ Optics and more)



Class 3B (IEC60825-1), IEC60950-1, UL 60950-1

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Full specifications can be found in the manual.
Subject to change without notice. Rev 1201.

