

Cobolt Skyra™ - for SERDS

Compact | Plug and play | Multi-line Laser

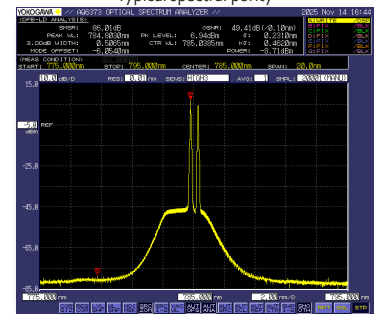


- Laser for SERDS - Shifted Excitation Raman Difference Spectroscopy
- Two 785 nm narrow linewidth laser lines with a fixed wavelength difference
- Up to 100 mW of optical power per laser line
- Compact, robust package with integrated electronics
- Integrated fiber coupled option
- User friendly graphical software interface

Applications

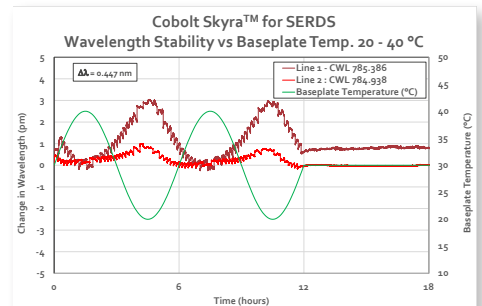
Shifted Excitation Raman Difference Spectroscopy (SERDS)

Cobolt Skyra™ for SERDS
Typical spectral purity

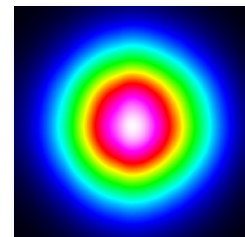


Optical Specifications

Center wavelength - Line 1	784.8 ± 0.5 nm
Nominal center wavelength - Line 2	785.3 nm
Wavelength separation	0.5 ± 0.1 nm
Beam diameter at aperture	700 ± 100 µm
Beam symmetry	> 0.85 : 1
Beam divergence, full angle	< 1.8 mrad
Spatial mode (TEM ₀₀)	M ² < 1.25
Polarization extinction ratio	> 100:1, vertical
Noise 250 Hz - 2 MHz (rms)	< 0.3 %
Long-term stability (8 hrs ± 3°C)	< 3 %
Beam position accuracy	< 0.5 mm
Beam angle accuracy	< 5 mrad
Ambient temperature & pointing (20-50 °C)	< 10 µrad / °C
Beam position overlap at exit	< 50 µm
Beam-to-beam angle deviation	< 250 µrad



Cobolt Skyra™ - Combined Beam Profile



For more information on Cobolt Skyra please visit the Hübner Photonics website :
<https://hubner-photonics.com/products/lasers/multi-line-lasers-and-laser-combiners/skyra/>

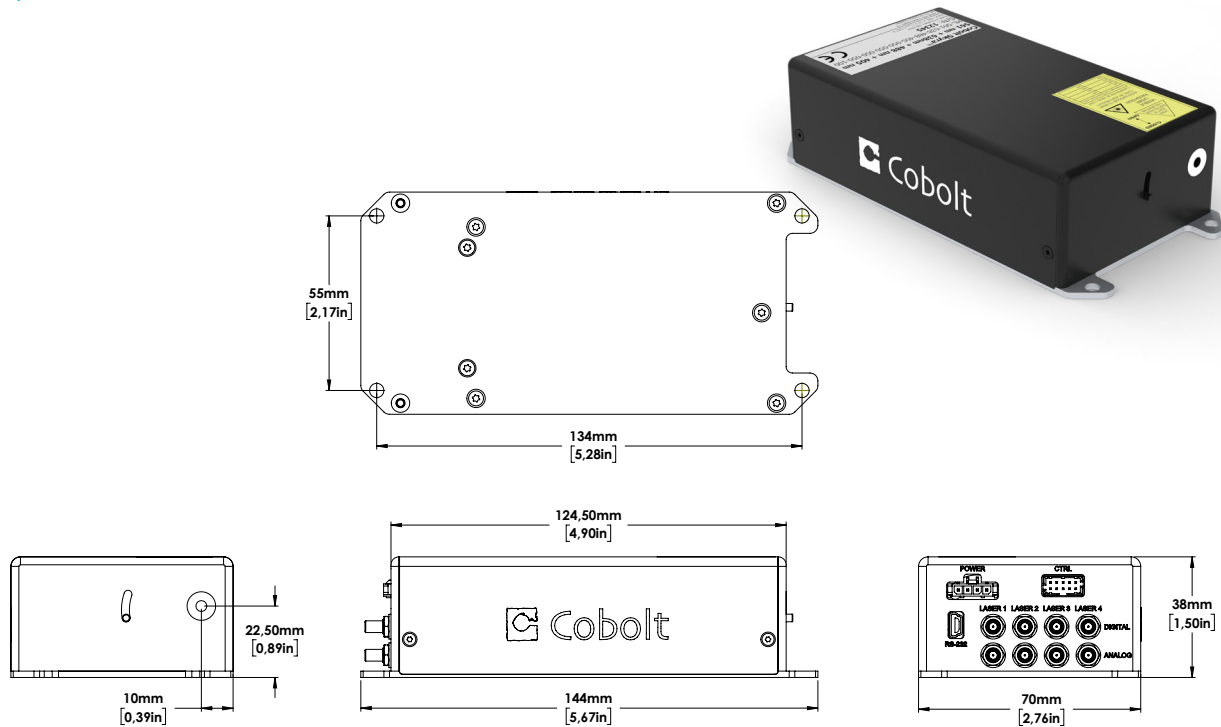
HÜBNER Photonics



Cobolt Skyra™

Mechanical Specifications

Cobolt Skyra - Free beam laser head dimensions



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