



PRESS-RELEASE

Cobolt Twist™ – a compact cw DPSS laser at 457 nm!

Cobolt introduces a new wavelength in its portfolio of compact single-mode DPSS lasers. The Cobolt Twist™ with up to 50 mW output power at 457 nm provides a compact and power efficient alternative to the 458 nm line from Ar-ion lasers.

The laser is well suited for demanding fluorescence applications, e.g. in confocal microscopy, as well as for certain reprographics and display applications.

The Cobolt Twist™ is a continuous-wave solid-state laser operating at a fixed wavelength of 457 nm and with an output power of up to 50 mW. Built into a hermetically sealed compact package using the proprietary HTCure™ technology for extreme robustness, the Cobolt Twist™ is a single-mode laser with low noise (<0.3 % rms), narrow spectral line width (less than 10 MHz) and exceptionally high beam quality ($M^2 < 1.1$).

The Cobolt lasers are based on proprietary PPKTP frequency conversion technology, for optimum flexibility and efficiency. The full system typically consumes less than 25 W of electrical power.

The Cobolt Twist™ laser provides a compact solid-state alternative to the Ar-ion 457.9 nm line. Combined with the Cobolt Calypso™ at 491 nm and Cobolt Fandango™ at 515 nm, Cobolt can now offer a complete solid-state alternative to the multi-line Ar-ion lasers. The Cobolt Twist™ may also provides a higher beam quality alternative to diode lasers in the 440-450 nm range.

The laser is supplied with an ultra-compact controller (CDRH or OEM) which can be remotely accessed for operation and monitoring of the laser system via digital (RS-232) or analog interfaces.

Cobolt now offers a complete range of high performance DPSS lasers to the fluorescence based bioanalytical industry: 457 nm, 473 nm, 491 nm, 515nm, 532 nm, 561 nm, and 594 nm lasers are currently available at output powers from 10 to 300 mW.

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