



## PRESS-RELEASE

### **Cobolt Mambo™ – compact DPSS laser at 594 nm now at 50 mW!**

Cobolt AB, Swedish manufacturer of low-noise DPSS lasers, expands the renowned product portfolio of compact visible lasers into the orange.

The Cobolt Mambo™ is perfectly suited for fluorescence analysis applications such as confocal microscopy and flow cytometry.

The Cobolt Mambo™ is a continuous-wave solid-state lasers operating at a fixed wavelength 594 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 Mambo™ is a single longitudinal mode laser with low noise (<0.3 % rms), narrow spectral line width (typically <30 MHz) and exceptionally high beam quality ( $M2 < 1.1$ ). 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 Mambo™ laser provides a compact solid-state and higher power alternative to HeNe lasers, which opens up a new range of fluorescence applications, in particular for the excitation of Alex Fluor 594, Texas Red and the new very bright gene expression proteins mCherry & mKate. Cobolt now offers a complete range of high performance DPSS lasers to the fluorescence based bioanalytical industry: 473 nm, 491 nm, 515nm,

532 nm, 561 nm, and 594 nm lasers are currently available at output powers from 10 to 300 mW.

Lasers built using the HTCure™ Technology have shown to withstand multiple 60G mechanical shocks in operation without any sign of degraded performance. They can be exposed to extreme temperatures (>100 °C), and are insensitive to pressure and humidity. HTCure™ Technology is an advanced manufacturing technique for high-performance solid-state lasers that can provide exceptional reliability and performance for today's demanding applications.

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.

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