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New High Brightness Taipan HD Lasers Enable Improved Lightshows

Santa Clara, Calif., February 12, 2016 – An expanded series of light show and entertainment lasers from Coherent, Inc. (Santa Clara, CA) enable show designers to produce sophisticated visual displays and effects with increased brightness and better definition. Specifically, the company's newest Genesis Taipan HD series lasers all offer TEM00 beam characteristics, and are available with powers between 2 and 5W at six standard Taipan wavelengths (460 nm, 480 nm, 488 nm, 532 nm, 577 nm, and 590 nm) matching most of the standard Taipan Multitransverse Mode (MTM) product line. This wide selection of wavelengths enables laser projectors to deliver a full palette of primary colors, plus tinted white and mixed colors, such as D65 white. All Genesis Taipan HD products have the same compact footprint and low electrical/thermal budget as other Taipan lasers, as well as the usual 50 kHz direction modulation, simplifying their integration in existing projectors.

The TEM00 output beam of Taipan HD lasers is critical to their ability to produce sharper displays. Specifically, this type of output delivers the possibility for diffraction limited divergence resulting in the smallest achievable projected spot size, and hence the highest possible brightness. In contrast, most light show lasers generate a so-called multi-transverse mode beam, which produces much larger, irregular and dimmer projected spots or graphics, especially if multiple laser diode emitters or laser sources were used and beam-combined. Preliminary testing indicates 1.8X increase in brightness for the Taipan HD laser over other sources. In addition, their smooth Gaussian beam profile enables white displays with the absolute minimum of color fringing.

All Coherent Genesis Taipan lasers are based on the company's unique optically pumped semiconductor laser (OPSL) technology. Characterized by scalable power and wavelength as well as high unit to unit consistency, this all solid state technology has been proven to be the most reliable visible laser type anywhere, with tens of thousands of units in the field.

Coherent distributes the Taipan product line via certified integrators only. For more information refer to <http://www.coherent.com/products/?1610/Coherent-Certified-Integrators>.

Founded in 1966, Coherent, Inc. is one of the world's leading providers of lasers and laser-based technology for scientific, commercial and industrial customers. Our common stock is listed on the Nasdaq Global Select Market and is part of the Russell 2000 and Standard & Poor's MidCap 400 Index. For more information about Coherent, visit the company's website at <http://www.coherent.com/> for product and financial updates.

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