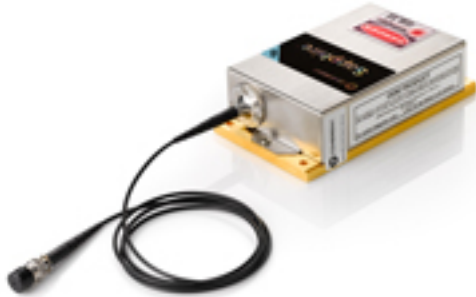


## Fiber-Pigtailed Sapphire Lasers



Coherent Inc has introduced a new range of fiber-pigtailed (FP) lasers. The new Sapphire FP lasers are compact, CW, visible lasers that offer a combination of low noise and excellent output stability. The lasers are available at seven wavelengths (458 nm, 488 nm, 514 nm, 532 nm, 552 nm, 561 nm, and 588 nm), at output powers of up to 120 mW. They are nominally configured with 1 m of single-mode, polarization-preserving fiber, terminating in a standard FC/APC 8 degree connector, simplifying their use in standalone applications or integration into OEM instruments.

Sapphire FP lasers achieve a combination of low noise and excellent output stability due to several factors. The first is the use of the Sapphire laser platform that delivers a circular output beam with low beam drift, enabling efficient coupling. Second is the use of a permanent fiber-pigtail using PermAlign technology rather than an air-launched setup using multi-axis adjustable mounts. A special fiber termination allows the operation of Sapphire FP lasers at short wavelengths and/or high powers without fiber degradation or damage.

**Coherent Inc.**, [www.coherent.com](http://www.coherent.com) [1]

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<http://www.rdmag.com/product-releases/2012/12/fiber-pigtailed-sapphire-lasers>

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[1] <http://www.coherent.com/>