

VALO Fiber Coupling Option

VALO Femtosecond Series | Ultrafast Fiber Lasers



Applications

- Flexible Beam Guiding
- Femtosecond Transmission

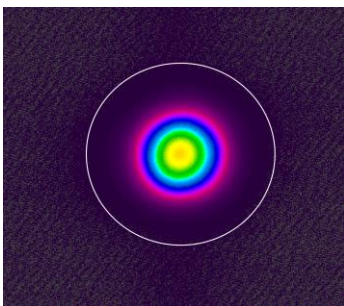
PARAMETER	SPECIFICATION
Fiber Length (m)	1.9 ± 1 *
Coupling Efficiency (%)	>75
Power Handling (W)	1.0
Fiber Numerical Aperture (at 1064)	0.017 ± 0.002
Mode Field Diameter (µm) (at 1064)	45 ± 3
Fiber Output **	Connectorized (FC/PC) ***
Dimensions (laser with attached module) (mm)	595 × 214 × 90

* Other lengths on request

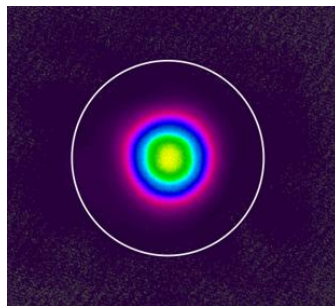
** Fiber not polarization-maintaining

*** Also available with other connector types or with collimated beam output

Far Field Beam Profile of



Far Field Beam Profile of



The VALO Femtosecond Series ultrafast fiber lasers can be optionally equipped with a Fiber Coupling Module. This add-on module is attached to the laser chassis and offers the user plug-in ready beam routing.

The Fiber Coupling Module is specifically designed and optimized for the < 40 fs pulses of the VALO Femtosecond Series featuring a large optical bandwidth. The integrated user-friendly dispersion pre-compensation of the VALO Femtosecond Series is fully compatible with the Fiber Coupling Module and can be used to compensate for additional dispersion in the external beam path after the fiber.

Typical Results

PARAMETER	LASER INPUT	FIBER OUTPUT
Pulse Duration (FWHM) (fs)	39	43
Spectral Bandwidth (-10 dB) (nm)	117	116

Specifications and technical data are subject to change without notice due to technical developments.



Our Locations

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