

VALO Power Modulation Option

VALO Femtosecond Series | Ultrafast Fiber Lasers



Applications

- Continuous Adjustment of Laser Power
- Fast Beam On/Off Switching

The VALO Femtosecond Series ultrafast fiber lasers can be optionally equipped with a Power Modulation Module. This add-on module is attached to the laser and features two modalities: Analog and Digital Modulation of output power.

With Analog Modulation, the output power of the laser can be modulated from 0 to 100% by applying a control voltage between 0 to 5 V. The Digital Modulation enables rapid switching of the laser beam on and off using a 5 V TTL signal, providing a modulation bandwidth of up to 1 MHz.

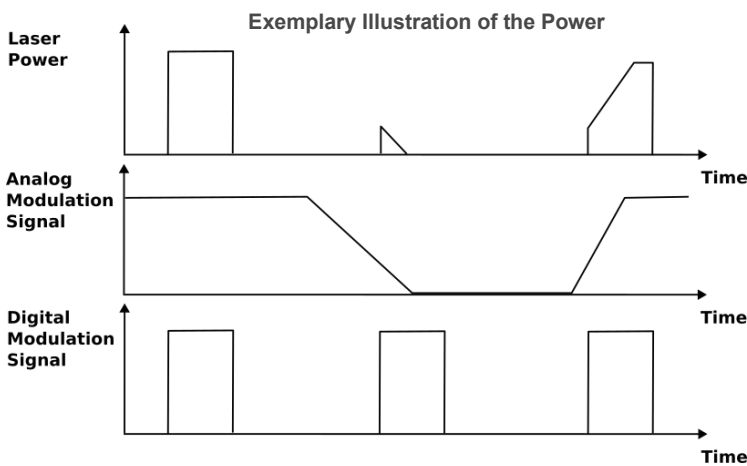
The Power Modulation Module is optimized for broadband applications and supports ultra-short pulse durations of less than 40 fs. Internal compensation of spectral dispersion from the AOM results in near-perfect beam quality despite the extremely large bandwidth.

PARAMETER	SPECIFICATION
Analog Modulation of Output Power (%)	0 ... 100
Analog Modulation Input Signal (V) *	0 ... 5
Digital Modulation of Output Power	ON / OFF
Digital Modulation Bandwidth (MHz)	Up to 1 MHz
Digital Modulation Input Signal **	5V TTL
Typical Transmission of the Module (%)	> 70
Dimensions (laser with attached module) (mm) ***	645 × 214 × 90

* Controlled either internally by laser electronics or externally by the customer

** To be provided by customer

*** Module delivered with separate driver electronics



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



Our Locations

**VALO Innovations GmbH, a part of HÜBNER Photonics
(VALO Femtosecond Series)**
Hannover, Germany
Phone: +49 511 260 390 70
E-mail: info.valo@hubner-photonics.com

**HÜBNER Photonics GmbH
(Sales in Germany, Switzerland, and Austria)**
Kassel, Germany
Phone: +49 561 994 060 - 0
Fax: +49 561 994 060 - 13
E-mail: info.de@hubner-photonics.com

**HÜBNER Photonics Inc.
(Sales in USA, Canada, and Mexico)**
San Jose, California, USA
Phone: +1 (408) 708 4351
Fax: +1 (408) 490 2774
E-mail: info.usa@hubner-photonics.com

**Cobolt AB, a part of HÜBNER Photonics
(Sales in Norway, Sweden, Finland, and Denmark)**
Solna, Sweden
Phone: +46 8 545 912 30
Fax: +46 8 545 912 31
E-mail: info.se@hubner-photonics.com

**HA Photonics Pty Ltd
(Sales in UK & Ireland - Goods shipped from Europe)**
United Kingdom
Phone: +44 7359440871
E-mail: info.uk@hubner-photonics.com

In need of technical support/service?
Send us information about your issue:
www.hubner-photonics.com/service-support

HÜBNER Photonics

