VALO Power Modulation Module

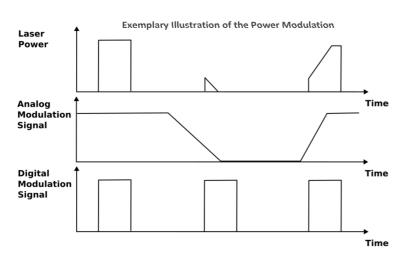
VALO Femtosecond Series | **Ultrafast Fiber Lasers**



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 5
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

^{***} Module delivered with separate driver electronics



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 in the range from zero to 100 % by applying a voltage in the range of 0 to 5 V. The Digital Modulation enables rapid on and off switching of the laser beam with a modulation bandwidth of up to 5 MHz using a 5 V TTL signal.

The Power Modulation Module is optimized for broadband applications and supports ultrashort 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.

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





^{**} To be provided by customer



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