VALO Femtosecond Series Accessories

Ultrafast Mirrors | **Ultrafast Polarizing Optics** | **Beam Attenuator**

Ultrafast Low-GDD Mirrors

Application: Undistorted Beam Steering of < 30 fs Pulses



The VALO Femtosecond Series Ultrafast Low-GDD Mirrors are specifically engineered to support the < 30 fs pulse durations of VALO Femtosecond Series Lasers. Unlike conventional mirrors, these ones are dispersion-optimized and do not degrade pulse duration or spectral bandwidth, ensuring the shortest possible pulses for demanding applications.

Ultrafast Low-GDD Mirrors		
PARAMETER	SPECIFICATION	
Wavelength Range (nm)	950 - 1180	
Reflectivity (s-pol) (%)	> 99.9	
AOI (°)	45	
GDD (s-pol) (fs²)	< 70	
Flatness @ 633 nm (mm)	λ/10 (in 8 mm)	
Available Diameters (mm)	12.7 / 25.4 / 50.8	
Material	UV Fused Silica	
Coating Type	IBS	

Ultrafast Low-GDD Polarizing Optics

Applications: Beam Splitting of Ultra-Broadband Pulses

Adjustment of Beam Polarization



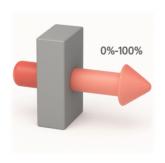
The VALO Femtosecond Series Beam Splitters and Waveplates are designed to support the full bandwidth of < 30 fs pulses generated by the VALO Femtosecond Series Lasers. Like the Ultrafast Low-GDD Mirrors, these polarizing optics are dispersion-optimized and preserve both pulse duration and spectral bandwidth, ensuring the shortest possible pulses reach the application.

Polarizing Beam Splitter		
PARAMETER	SPECIFICATION	
Wavelength Range (nm)	950 – 1150	
Dimensions (mm)	6.35 x 6.35 x 6.35	

Half-Wave Plate		
PARAMETER	SPECIFICATION	
Waveplate Type	Achromatic	
Wavelength Range (nm)	950 – 1150	
Diameter (mm)	12.7 (mounted) 8.0 (clear aperture)	

Ultrafast Low-GDD Beam Attenuator

Application: Variable Laser Power Adjustment of < 30 fs Pulses



The VALO Femtosecond Series Beam Attenuator is an ideal choice for continuous adjustment of the laser power. It is specifically designed for the VALO Femtosecond Series and supports the full bandwidth and < 30 fs pulse durations of the VALO Femtosecond Series lasers. It offers user-selectable s- or p-polarization output, an integrated beam dump, and can also function as a polarizing beam splitter with two outputs whose power ratio can be adjusted by the user.

Manual Beam Attenuator		
PARAMETER	SPECIFICATION	
Wavelength Range (nm)	950 – 1150	
Adjustable Power Range(%)	1 - 100	
Insertion Loss (%)	< 5	

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





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: <u>info.de@hubner-photonics.com</u>

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

