



Magius Product Line

UV CW single frequency 257,5 nm fiber Laser Magius-SF-257-FBGWS

Key features

- Wavelength 257,5 nm
- Linewidth < 100 kHz
- Output power up to 100 mW
- Superior beam quality ($M^2 < 1.05$)
- High power stability
- Low noise

Application

- FBG writing

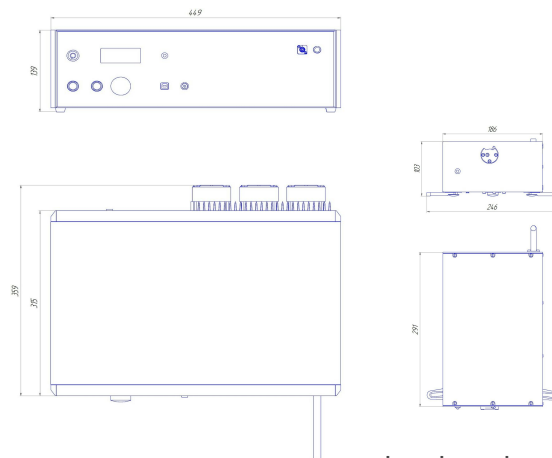
Optromix UV CW 257.5 nm

single-frequency Magius fiber laser is

specifically for fiber Bragg gratings (FBG) writing. Optromix fiber Bragg gratings (FBG) writing workstation is based on the fourth Ytterbium laser harmonic. Magius fiber laser has a unique advantage over other lasers of its class – its wavelength. Optromix UV CW 257.5 nm single-frequency fiber laser is designed to replace excimer lasers for FBG writing. Argon lasers are huge, really hard to maintain, expensive and unreliable. Magius fiber laser is an excellent replacement of gas lasers; it is compact, stable and easy to maintain. Not to mention, it saves a lot of space, time and money.

Fiber Bragg Grating (FBG) writing station consists of:

- Ultraviolet 257.2 nm fiber laser;
- Optical table;
- The air-filter box to deduct FBG writing station;
- Mechanical and optical elements assembled with adjustment and control components to create a Lloyd scheme interference pattern on the optical fiber.



developed

Magius-SF-257-FBGWS specification

Parameter	Value	Unit
Operating mode	CW, Single frequency	
Central wavelength	257,5	nm
FWHM	< 100	kHz
Nominal output power	50	mW
Output power tunability	20-100%	%
Power stability	< ± 1	%
Polarization	Linear	
Beam quality (M ²)	≤ 1.05	
Control interface	Front panel with display, RS232 (optional), USB (optional)	
Operating voltage	220 -240 Volt, 50 -60 Hz, Single Phase	
Operation temperature	10 to 40	°C
Storage temperature	- 40 to +70	°C
MTBF	> 10,000	Hrs
Operation Humidity	10 - 85	%
Cooling	Forced air	
Dimensions (WxHxL)	449x139x359 , 246x103x186	mm
Weight	≤ 20	kg

- Optromix fiber laser systems can be customized by request.
- Optromix fiber laser systems are under 1 year warranty.



Ordering Information

Product Code	Magius-SF-257-FBGWS
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Information in this document is subject to change without notice.

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