

Silver-LED

Fiber Coupled UV, Violet, Blue, Green and Red LED Light Sources

Ver. 10

Introduction

The fiber-coupled high power UV, Violet, Blue, Green and Red LED light source modules are effective replacements of lasers and lamps in many applications, such as spectroscopy, illumination and curing.

These compact modules provide high power CW or pulsed power at fiber output. The LED current controller provide CW low noise operation mode. The TTL input enables external triggering. The Analog input (0-5Vdc) enables control of output power from computer equipped with digital to analog module (D/A).

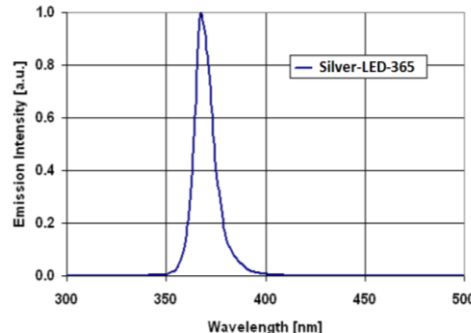
Silver-LED is ideal for use with various fiber optic spectrometers in continuous, strobe or external triggering measurement mode.

Currently the Silver-LEDs are available at following wavelengths: 365, 375, 385, 390, 395, 400, 405, 410, 415, 420, 425, 430, 435, 440, 445, 455, 460, 470, 475, 480, 500, 515, 520, 530, 535, 550, 595, 630, 640, 670, 740, 760, 810, 830, 940 nm and White. Other wavelengths available on request.



Features

- High Power (>30mW at most wavelengths with 1500micron core POF fibers. Please inquire regarding specific wavelength power)
- Reciprocal SMA fiber connection
- Precisely adjustable power by 10 turns potentiometer
- Low optical noise <0.05% RMS
- TTL external modulation input (up to 50KHz)
- Analog input (0-5V) for power control
- TTL and Analog Inputs are Optically Isolated
- Long life (no lamp replacement required)



Example: spectrum of Silver-LED-365

Optical Output Power Specifications:

Silver-LED power output is limited by the reciprocal fiber characteristics. Larger core and higher NA will increase maximum power output, and vice versa. Please contact us for power data for specific wavelength and fiber.

Following table shows few examples:

Product	Fiber Type	Output Power
Silver-LED-365	Polymer Optical Fiber, core 1500um, NA 0.5, length 1m	100 mW
Silver-LED-455	Polymer Optical Fiber, core 1500um, NA 0.5, length 1m	130 mW
Silver-LED-630	Polymer Optical Fiber, core 1500um, NA 0.5, length 1m	100 mW

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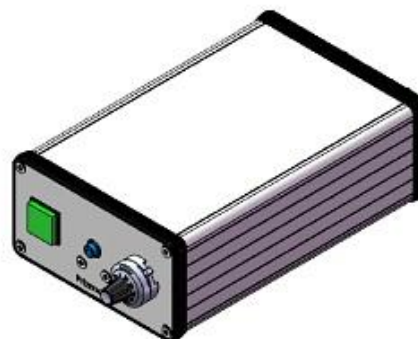
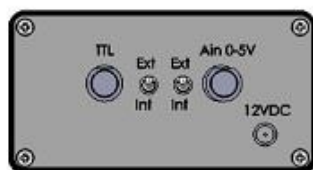
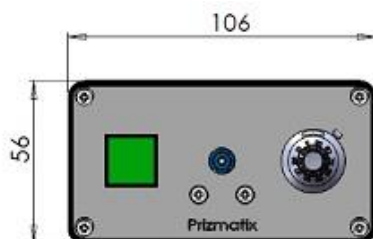
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Electro-Optical Specifications

Typical Optical RMS Noise (DC-1MHz)	%	< 0.05
TTL and Analog inputs		Optically isolated BNC connectors
Digital modulation frequency (TTL)	Hz	DC-50000
Rise / Fall time (10% - 90%)	µs	<2
Analog input voltage range	V	0-5
Analog modulation frequency	Hz	DC-100
Input Voltage	V	12
Power Adaptor Input		100-240 VAC, 50/60Hz, 0.6A

General Specifications

Operation temperature range	°C	10 - 35
Storage temperature range	°C	-10 - 55
Operating relative humidity (Non-condensing)	%	<90
Weight	g	470
Power adaptor dimensions (L x W x H)	mm	90 x 53 x 35
Power adaptor weight	g	190
Power adaptor safety		



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