

Prizmatix

UHP-F-LED-UV

Ultra High Power light guide coupled LED light source for Curing of UV Adhesives

Ver. 05

Introduction

Prizmatix UHP-F-LED series of Ultra High Power LED (up to 70Watt) light guide coupled light sources is a compact light source for spot curing of UV adhesives. The UHP-F-LED housing is a self-contained light source including all necessary driver electronics and thermal management. Hence additional controller is not required to operate the module at a preset power level. An optional console enables convenient manual control.



Key Features

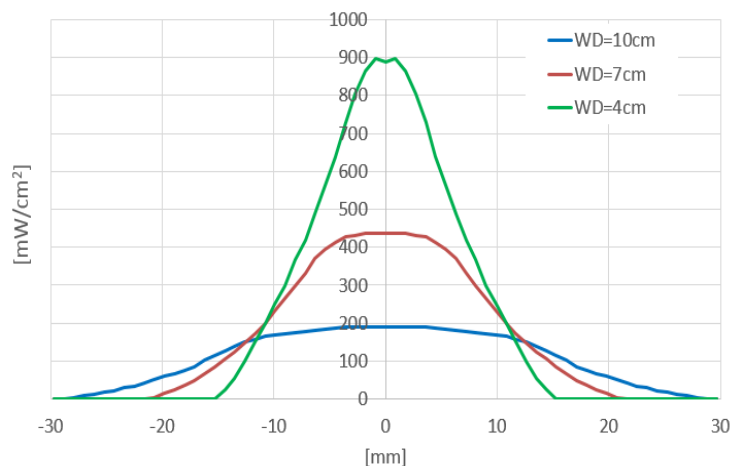
- Ultra High Brightness LED
- Simple integration for OEM
- Isolated TTL and Analog Inputs
- Fast TTL switching
- Low optical noise
- Remote control by I²C
- Optional Console for Power and ON/OFF control
- Long life (Typical >20000h)
- Rapid warm up time
- Optional foot pedal



Optional Console

Applications

- Curing of UV adhesives
- Inspection (NDT)
- Fluorescence microscopy
- Materials analysis



Irradiance from 5mm core light guide equipped with 1 inch collimator

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Optical Specifications

Wavelength		365-375nm*
Optical power output from LLG	W	1W output of 3mm core liquid light guide 2W output of 5mm core liquid lightguide

* Other wavelengths are available upon request

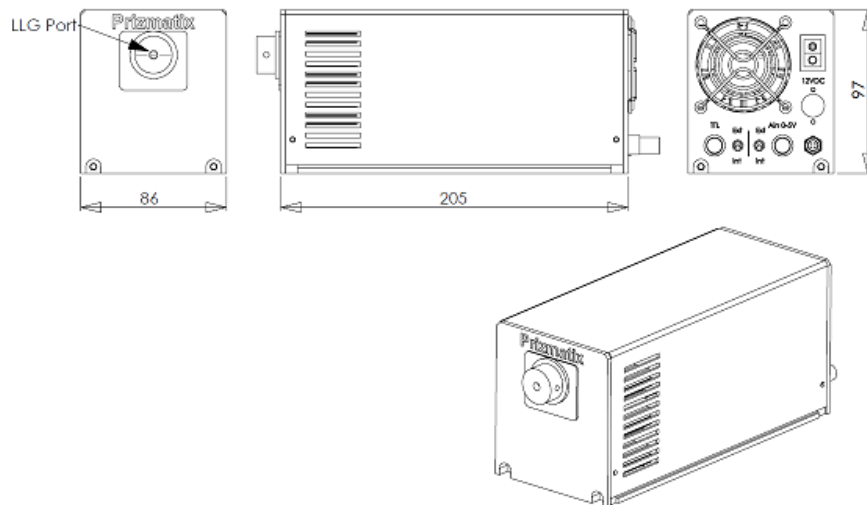
Electrical Specifications

Digital modulation (TTL Input)	Hz	DC-30000
Analog modulation (Analog Input)	Hz	DC-100
Analog power control	%	0-100
ON/OFF		Power switch or by TTL signal
Input Voltage (Float)	V	12
Max Input current	A	6.5

General Specifications

Operation temperature range	°C	10 - 35
Storage temperature range	°C	-10 - 55
Operating relative humidity (Non-condensing)	%	<90
Dimensions		See drawing below
Head weight	g	750

Mechanical Drawings



LLG Port is designed for a standard light guide:

End fittings diameter \varnothing 5mm (for \varnothing 3mm light guide core) or \varnothing 7mm (for \varnothing 5mm light guide core).

Tip length of 20mm.

LLG Port and mounting options may vary according to customer's specifications.

Specifications subject to changes without notice.

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