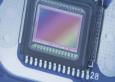
minnieCam[™] and minnieScope[™] products







PRODUCT BRIEF

lightLume™-M; LED-based, fiber-coupled light source.

introduction:

The lightLume[™] series of fiber coupled LED light sources employ the latest high-power LED technologies to achieve maximum optical output power.

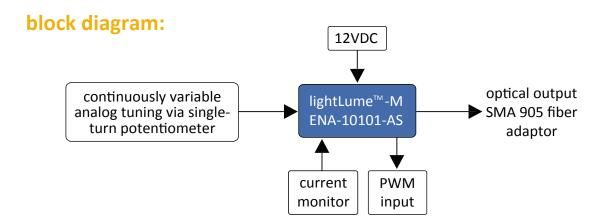
Optical output is coupled into a fiber or a bundle of fibers through a standard SMA fiber adaptor port (SMA fiber patch cords are sold separately). This port is compatible with all minnieCam™ and minnieScopeTM products.

The LED driver is incorporated in the housing and offers a PWM modulation input, current monitoring port, as well as means of varying the output power (analog modulation) continuously from 0% to 100% manually with the top slider.

The one-piece machined housing features multiple mounting holes. A mounting plate for convenient mounting onto optical tables is also available (sold separately).

product features:

- high output power. Up to a maximum of 15 lumens through the minneScope[™] -L.
- broad wavelength selection.
- SMA port for up to 2.5mm OD multimode fiber.
- PWM modulation input.
- current monitor output.
- interchangeable fiber patch cords.
- compact metal housing with integrated heatsink.



Enable, Inc. | 610 Price Avenue | Redwood City, CA 94063 | Tel: (650) 363-1302 | Fax: (650) 395-6069 | www.EnableImaging.com

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LED-based light source. Compatible with all minnieCam[™] and minnieScope[™] products

product specifications: ENA-10101-AS				
electrical/optical characteristics:		modulation:		
recommended input voltage ¹ (2.1mm x 5.5mm receptacle): male center positive	DC 12V typ. 6V min / 12V typ. / 36V max absolute maximum: 12VDC	analogue modulation (0% -100% continuous manual) PWM modulation	5through single turn potentiometer SMA: "PWM in"	
power current consumption	400mA max at 12V	PWW Modulation	15V max	
output optical port ²	SMA 905 ³	PWM dimming and ON/OFF control:		
LED current monitor	SMA: "MON. out" 1.000 V = 1000 mA	ON/OFF threshold values ON	0V < V <0.8V	
LED current drive	0A to 1.2 A max ⁴	OFF	2.2V < V <15V	
		PWM drive current	@ V = 5V, 1mA max	
		maximum PWM frequency (measured 10%-90% dimming)	linear operation 20 - 250Hz maximum Frequency 2,000Hz	

- 1 A 12VDC wall-plug transformer with NEMA 1-15P input connector is also shipped with this module.
- 2 Up to 15 lumens through Enable's minnieScope-L constructs can be achieved. Different LED choices and fiber patch cords will produce different results. Contact us to discuss your illumination needs directly.
- 3 Compatible with the optical connector of any minnieCam™ or minnieScope™ products. Either from the (-XS) or (-L) family of sensors.
- 4 Factory limits are set for different types of LEDs. The standard product uses LEDs with 1.0A max current. The driver can drive up to 1.2A max.
- 5 Potentiometer will also set the maximum output of PWM.

part number and configuration ordering information:

lightLume-L ordering Part Number: ENA-10101-AS

configuration: WV - [wavelength code

For example you need to order ENA-10025-AS with configuration WV-057: lightLume-L 5,700K chromaticity white LED.

→ Indicates the standard product configuration.

wavelength code	peak wavelength (nm)
057	5700 K
050	5000 K
040	4000 K
035	3500 K
030	3000 K

¹ Single color LEDs can be made available upon request.

Please contact us for all your imaging needs and more detailed data sheets.

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