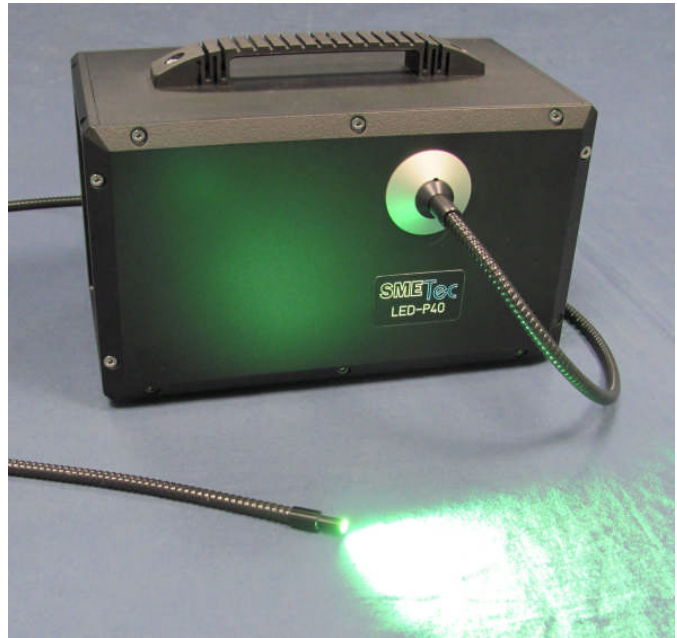


LED-P40 LED Light Source

The SMETEC LED-P40 is a high performance LED light source for industrial use. It was specially developed for light critical camera applications. The LED-P40 can be used as a continuous light source or pulsed source of light. It provides in both applications high light output and in pulse mode high repetition rate.

With a connected optical fiber bundle, the system is an ideal choice for many applications in endoscopy which demand a higher light output.

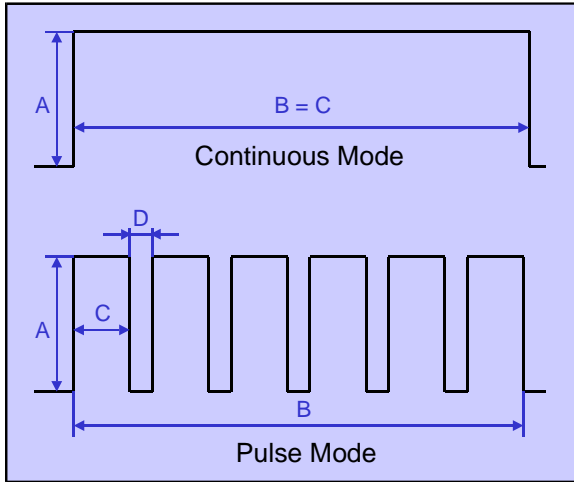
The light source can be used as stand alone system, or with remote control over an Ethernet connection.



Technical Data

- Lamp type LED - green (white LED on request)
- Modes pulsed / continuous / single shot
- Pulsed Modes Timed / Gated
- min. Pulse length 10 μ s
- max. Pulse length 1000 μ s
- Luminous flux 9000 lm (continuous and pulse mode)
15000 lm (pulse mode max. 20 μ s for 10 ms)
18000 lm (single shot max 20 μ s)
- Active light guide diameter 5 mm
- Optical mounting Schöilly/Volpi (other mountings on request)
- Interface Ethernet, BNC for external connection to camera
- Lamp power rating 45 / 85 / 170 W
- Dimensions 280 x 150 x 155 mm
- Weight 6360 g
- Operating voltage 100-240 VAC 50/60 Hz
- Approvals in compliance with CE regulations

LED-P40 LED Light Source

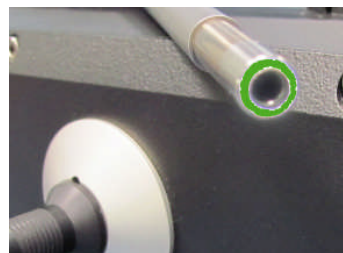


Illumination Modi

	A	B	C	D
Mode	Luminous Flux	max. Duration	Pulse Duration	Off Time between Pulses
Continuous	7000 lm	not limited	---	---
Continuous Boost	9000 lm	30 sec	---	---
Pulse	9000 lm	not limited	10 μ s - 1 ms	0,4 x C
Pulse Boost	15000 lm	10 ms	10 - 20 μ s	10 x C
Pulse Ultra Boost	18000 lm	---	10 - 20 μ s	1 s



At the back of the LED-P40 are the connection for the power supply and the T-Base 100 (Ethernet) connector for the external mode adjustment located. Settings can be saved and will be available after restart. Many settings of the LED-P40 can also be controlled manually at the device. The current mode is displayed on the LED-P40 by status LEDs.



The LED-P40 is the ideal illumination system for the SMETEC All-In-One probe. Minimally invasive measuring techniques use only one optical probe with separated illumination and recording channels. This system prevents interfering reflections. The LED-P40 with its chip size of 5 mm is specially designed for the SMETEC All-In-One probe.