

# SMLS

Single Mode Laser Source

**LIGHT SOURCE**  
FOR HASO AND HASO R-FLEX

**COMPACT**  
AND ROBUST

**MANUAL, ANALOG**  
AND USB CONTROL



Single-mode fibered laser source for optical metrology available for several wavelengths

## A UNIQUE SET OF ADVANTAGES

- Laser diode with single-mode fiber patch cord
- Active emission power stabilization using integrated photodiode
- Fine power control with Constant Current mode for using amplified spontaneous emission
- Amplitude modulation mode up to 1kHz
- Software interface available with USB 2.0 connection, e.g. for remote control
- User-friendly interface with a color bar for current indicator
- OLED display, readable through goggles
- Laser safety interlock and key
- TTL external trigger up to 1kHz

Contact us for more information: [contact@imagine-optic.com](mailto:contact@imagine-optic.com) or +33 1 64 86 15 60

# SMLS

## Light source for optical metrology

The new generation of Imagine Optic's single-mode fibered laser light source provides a stable output for optical metrology applications. The compact, multi-function laser driver box is delivered with a separate 2m-long fiber patch cord and 12V power adapter. Several operation modes and interfaces are available.

### OPERATION MODES

- Constant Current
- Constant Power
- Alignment mode (~90% power)

### MODULATION MODES

- Continuous wave
- Amplitude modulation up to 1kHz and analog control 0-4V for use with external signal generator
- TTL external gating up to 1kHz

### INTERFACES

- Color bar as current indicator
- OLED display
- Remote control with USB 2.0
- BNC in for TTL, amplified modulation, or pulse mode
- BNC out for amplitude photodiode signal
- Laser safety key and separate enable switch
- Laser safety interlock
- FC/PC fiber connection

### APPLICATION EXAMPLES

- A point source for wavefront measurements
- Light source for HASO R-Flex, Imagine Optic's metrology tool for characterizing optical components
- Ideal for shutterless wavefront sensors when used in conjugation with an external signal generator or an internal TTL signal generator (only available in remote control mode)



### STANDARD PRODUCTS

Part number	$\lambda$ (nm)	Power (mW)*	Laser class
SMLS 405-S	405	4.5	3R
SMLS 520-S	520	4.5	3R
SMLS 635-S	635	4.5	3R
SMLS 785-S	785	4.5	3R
SMLS 830-S	830	4.5	3B
SMLS 1064-S	1064	4.5	3B
SMLS 1550-S	1550	4.5	3B
SMLS Custom	ask	ask	ask

\* at fiber port without external fiber patch cord

**For other wavelength or power configuration, please contact Imagine Optic.**