

SPECTROLIGHT Inc

Integrated Brochure

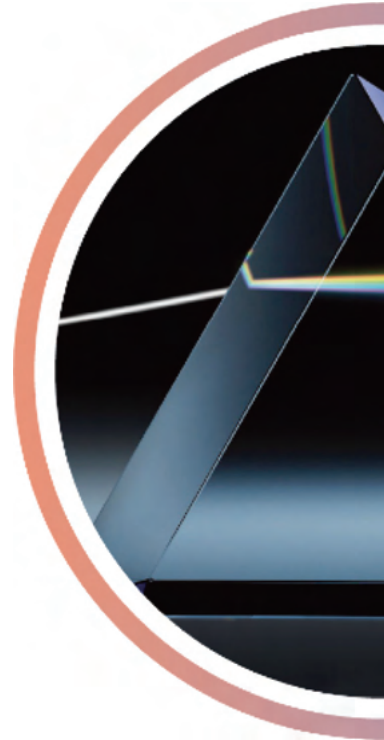




FLEXIBLE WAVELENGTH SELECTOR

- Designed for wavelength selection over wide spectral ranges (255 - 1650 nm)
- Employs patented TwinFilm™ technology
- Compatible with any broadband light source

AWARD WINNING TECHNOLOGY



LIGHT SOURCES

- Powerful and Compact broadband light sources
- Low-noise with Versatile output modules
- Fully compatible with the FWS





TUNABLE LIGHT SOURCE

- Revolutionary Tunable Light Source
- Wide and Precise Spectral Wavelength Selection
- Versatile Applications in both Scientific and Industrial fields

AWARD WINNING LIGHT SOURCE

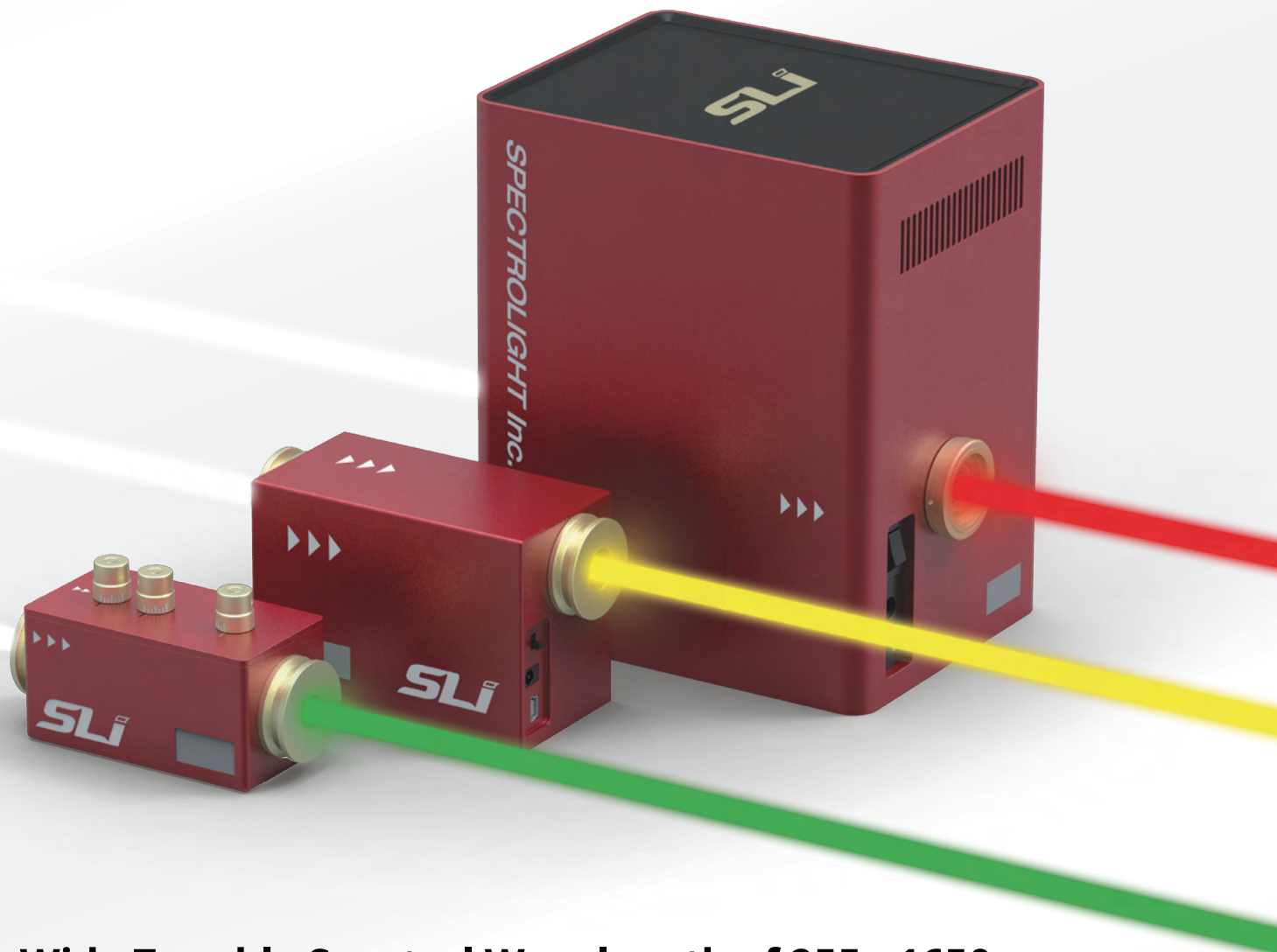


TUNABLE LASER SYSTEM

- Tunable Pico-second Pulsed Supercontinuum Laser System
- All-In-One PLUG&PLAY System
- Easy, Effective and Reliable applications
- Fully Customizable to meet your every needs



TUNABLE BANDPASS FILTER



- Wide Tunable Spectral Wavelength of 255 - 1650 nm
- Relevant for both Excitation and Emission
- Compatible with any Broadband Light Source
- Implementing the patented TwinFilm™ technology

Flexible Wavelength Selector (FWS)

Tunable bandpass filter for spectroscopy and spectral imaging

Flexible Wavelength Selector is a unique, compact optomechanical device that utilizes the patented TwinFilm™ technology to deliver precise wavelength tuning and adjustable bandwidth with the imaging advantages of a circular aperture filter.

FWS- Auto (Automated type)



Poly



Poly-EXTD



Mono

FWS- Manual (Manual type)



Basic



High Resolution



CenterLine



Customized

Ideal for

- Fluorescence microscopy
- Hyperspectral imaging
- Life sciences instrumentation
- Machine vision
- Laboratory research

Key product advantages

- Broad wavelength tuning (255 - 1650 nm)
- Adjustable bandwidth (FWHM 3 - 15 nm, nominal)
- 5 / 10 mm circular aperture
- High Transmission efficiency (> 75 %)
- Compact and light-weight optomechanical device
- No beam deviation or walk-off during tuning

Flexible Wavelength Selector – Auto Poly (FWS-Poly)

FWS-Poly features complete software control of wavelength and bandwidth via a USB link and simple software interface.



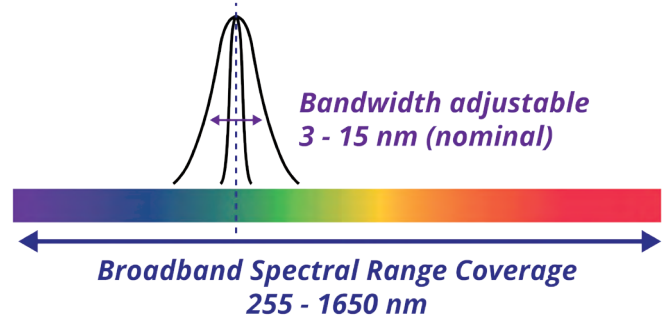
Optical Specifications

- Transmission: > 75 %
- Tunable spectral wavelength : 255 - 1650 nm
- Center wavelength accuracy : See table below
- Tunable FWHM range :
 - 255 - 890 nm : 3 - 15 nm
 - 880 - 1500 nm : 5 - 15 nm
 - 1475 - 1650 nm : 7 - 13 nm
- FWHM resolution : 1 nm
- Out-of-band blocking : OD 6 (0.0001 % transmission)

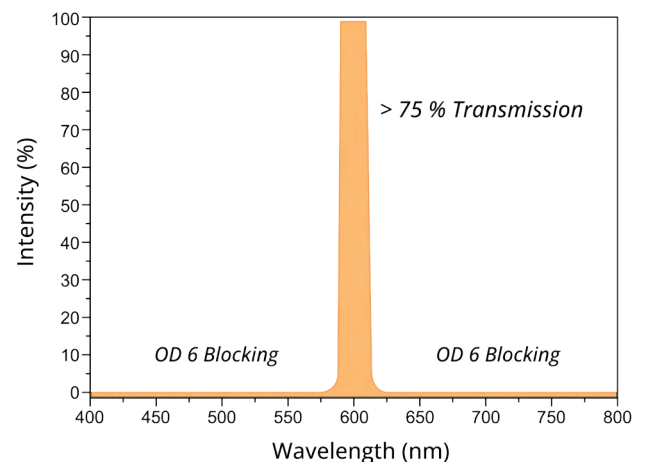


General Specifications

- Dimensions : 170 x 129 x 200 mm
- Aperture size : 5 mm
- Input power : AC 12 V, 5 A
- Electric requirement : AC 100 - 240 V, 50/60 Hz
- Data interface : USB



Item Number	Spectral Range	C.W.A
FWS-Poly-SC	385 - 1015 nm	0.5 nm
FWS-Poly-UV	255 - 400 nm	0.5 nm
FWS-Poly-VIS	350 - 890 nm	0.5 nm
FWS-Poly-NIR	615 - 1015 nm	0.5 nm
FWS-Poly-SWIR	1005 - 1650 nm	1 nm
FWS-Poly-IR Plus	615 - 1650 nm	1 nm
FWS-Poly-Custom	Custom range	0.5 / 1 nm



*Note : For the optimal performance of Wavelength Selectors, the incident light should be collimated.

*Note : FWS-Poly-UV can block up to 600 nm.

*C.W.A = Center Wavelength Accuracy

Flexible Wavelength Selector – Auto Poly (FWS-Poly-EXTD)

FWS-Poly-EXTD features complete software control of wavelength and bandwidth via a USB link and simple software interface. With an extended aperture size, the FWS-Poly-EXTD can provide optimal results when applied with light sources with limited collimation.



Optical Specifications

- Transmission: > 75 %
- Tunable spectral wavelength : 255 - 1650 nm
- Center wavelength accuracy : See table below
- Tunable FWHM range :
 - 255 - 890 nm : 3 - 15 nm
 - 880 - 1500 nm : 5 - 15 nm
 - 1475 - 1650 nm : 7 - 13 nm
- FWHM resolution : 1 nm
- Out-of-band blocking : OD 6 (0.0001 % transmission)

General Specifications

- Dimensions : 170 x 129 x 200 mm
- Aperture size : 10 mm
- Input power : AC 12 V, 5 A
- Electric requirement : AC 100 - 240 V, 50/60 Hz
- Data interface : USB

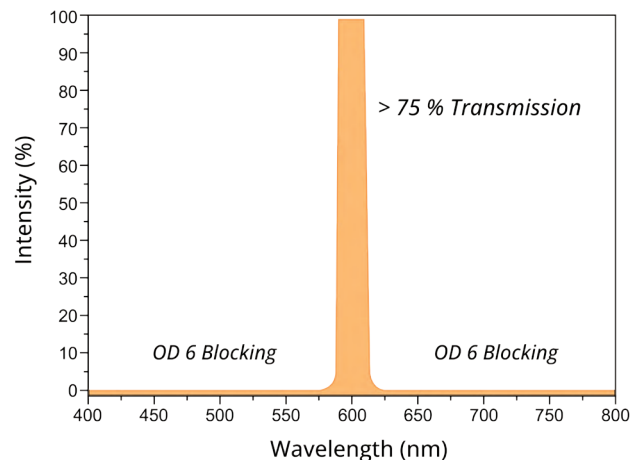


Item Number	Spectral Range	C.W.A
FWS-Poly-UV-EXTD	255 - 400 nm	0.5 nm
FWS-Poly-VIS-EXTD	350 - 890 nm	0.5 nm
FWS-Poly-NIR-EXTD	615 - 1015 nm	0.5 nm
FWS-Poly-SWIR-EXTD	1005 - 1650 nm	1 nm
FWS-Poly-IR Plus-EXTD	615 - 1650 nm	1 nm

*Note : For the optimal performance of Wavelength Selectors, the incident light should be collimated.

*Note : FWS-Poly-UV can block up to 600 nm.

*C.W.A = Center Wavelength Accuracy



Flexible Wavelength Selector - Auto Mono (FWS-Mono)

FWS-Mono features complete software control of wavelength and bandwidth via a USB link and simple software interface.



Optical Specifications

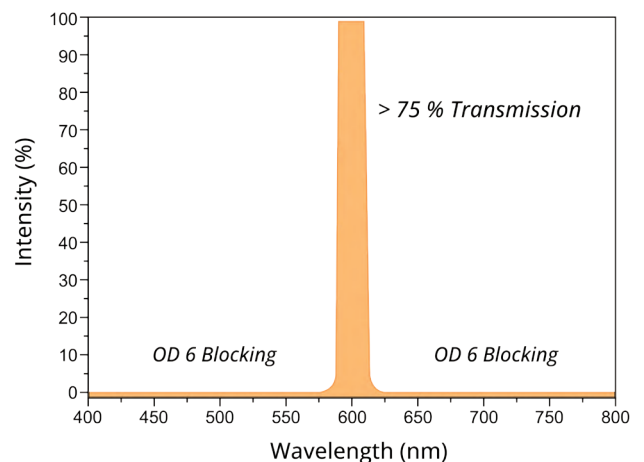
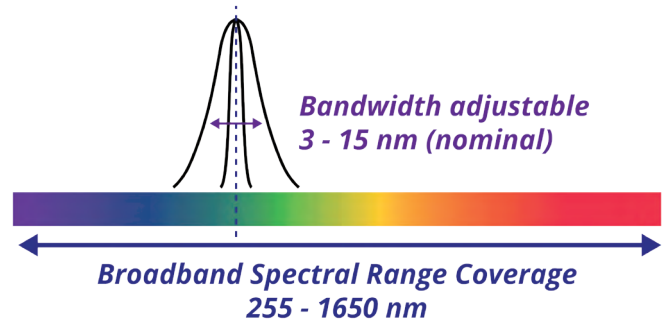
- Transmission: > 75 %
- Tunable spectral wavelength : 255 - 1650 nm
- Center wavelength accuracy : See table below
- Tunable FWHM range :
 - 255 - 890 nm : 3 - 15 nm
 - 880 - 1500 nm : 5 - 15 nm
 - 1475 - 1650 nm : 7 - 13 nm
- FWHM resolution : 1 nm
- Out-of-band blocking : OD 6 (0.0001 % transmission)

General Specifications

- Dimensions: 48 x 92 x 64 mm
- Aperture size: 5 mm
- Input power: AC 12 V, 2 A
- Electric requirement : AC 100 - 240 V, 50/60 Hz
- Data interface: USB



Item Number	Spectral Range	C.W.A
FWS-Mono-F00	255 - 290 nm	0.5 nm
FWS-Mono-F01	280 - 310 nm	0.5 nm
FWS-Mono-F02	310 - 350 nm	0.5 nm
FWS-Mono-F03	348 - 390 nm	0.5 nm
FWS-Mono-F04	385 - 435 nm	0.5 nm
FWS-Mono-F05	430 - 490 nm	0.5 nm
FWS-Mono-F06	485 - 550 nm	0.5 nm
FWS-Mono-F07	545 - 620 nm	0.5 nm
FWS-Mono-F08	615 - 700 nm	0.5 nm
FWS-Mono-F09	690 - 790 nm	0.5 nm
FWS-Mono-F10	775 - 890 nm	0.5 nm
FWS-Mono-F11	880 - 1015 nm	1 nm
FWS-Mono-F12	1000 - 1150 nm	1 nm
FWS-Mono-F13	1140 - 1310 nm	1 nm
FWS-Mono-F14	1300 - 1500 nm	1 nm
FWS-Mono-F15	1475 - 1650 nm	1 nm



*Note : For the optimal performance of Wavelength Selectors, the incident light should be collimated.

*Note : F00-F02 models can block up to 600 nm.

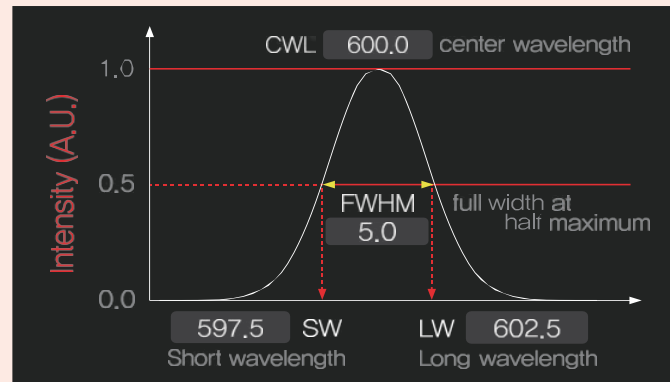
*C.W.A = Center Wavelength Accuracy

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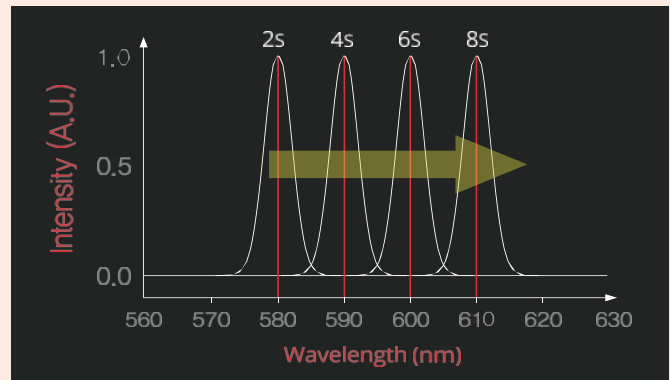
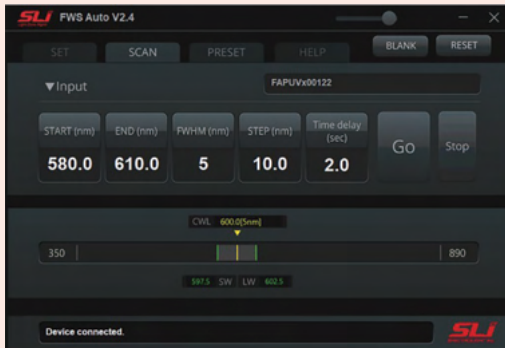
Flexible Wavelength Selector – Auto Software

Software Control

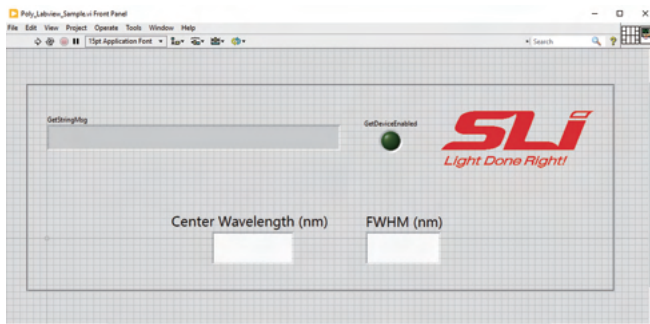
Set



Scan



Software Compatibility



- Applying SDK of FWS to a Labview software (uploaded on the website)
- Compatible with various softwares (LabVIEW, Python, μ Manager)

Flexible Wavelength Selector – Auto

Application

Wavelength tuning for broadband light sources

Flexible Wavelength Selector (FWS) can be applied with various types of light sources, such as plasma light, supercontinuum laser, LED, Xenon lamp and so on. FWS can provide the tunability on the light sources used in a user's system.



FWS-Mono + Supercontinuum laser (SL-Pico)



FWS-Poly + Supercontinuum laser (SL-Pico)

- Applications with various light sources
 - Supercontinuum lasers (SL-Pico, NKT, LEUKOS etc.)
 - Laser-Driven Light Source (Energetiq, ISTEQ, etc.)
 - LED, Xenon lamp, Halogen lamp and other broadband light sources

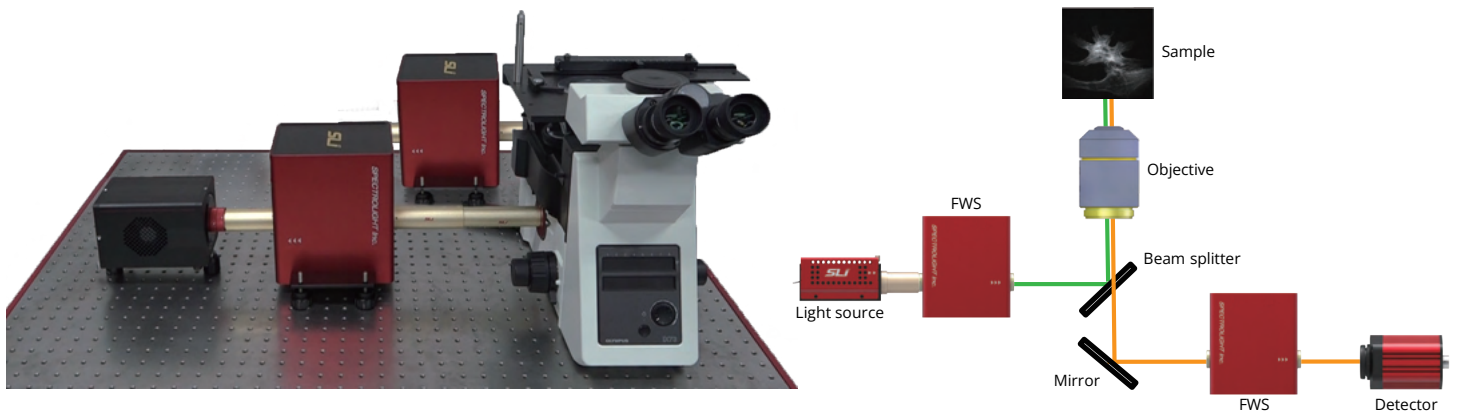


FWS-Poly + Laser-Driven Light Source

Flexible Wavelength Selector - Auto Application

Detection for spectroscopy and microscopy

Experimental setup and scheme for fluorescence microscope



Fluorescence imaging results

It is possible to convert a commercial microscope into a Fluorescence imaging microscope by applying our FWS on the emission/excitation port of the microscope.

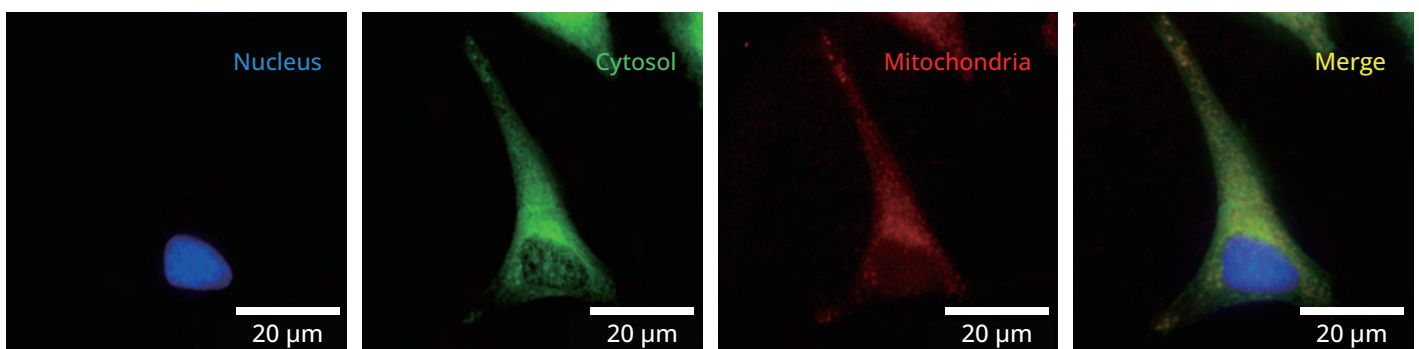


Figure 1. HeLa cells labelled with Dapi and Deep Red and CMFDA green show localization of Nucleus and mitochondria and cytosol. The images were captured using a microscope equipped with X60 objective lens.

Flexible Wavelength Selector – Manual

High Resolution, Basic and CenterLine

Manual models feature manual adjustment of the center wavelength, transmission bandwidth and beam offset compensation.

The High Resolution (FWS-H) model features a minute adjustment of the center wavelength and bandwidth.

The CenterLine (FWS-CL) features a manual adjustment of the center wavelength with a fixed bandwidth of around 15 nm (nominal).

Optical Specifications

- Transmission: > 75 %
- Tunable spectral wavelength : 255 - 1650 nm
- Tunable FWHM range :
 - 255 - 890 nm : 3 - 15 nm
 - 880 - 1500 nm : 5 - 15 nm
 - 1475 - 1650 nm : 7 - 13 nm
- Out-of-band blocking : OD 6 (0.0001 % transmission)



General Specifications

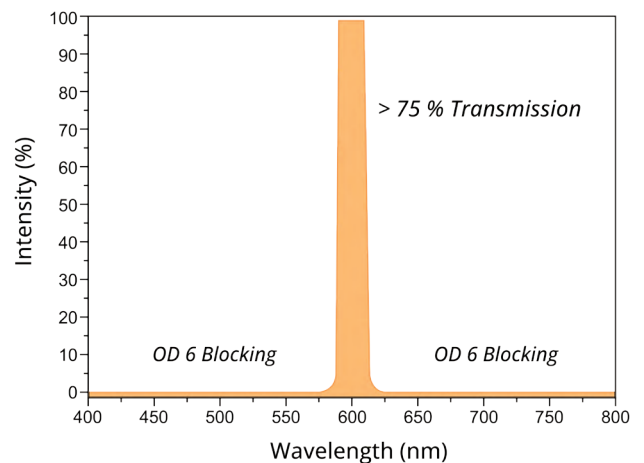
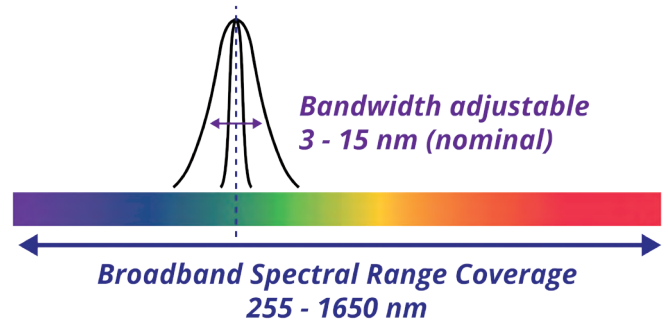
- Aperture size: 5 mm

Item Number	Spectral Range
FWS-B/H/CL-F00	255 - 290 nm
FWS-B/H/CL-F01	280 - 310 nm
FWS-B/H/CL-F02	310 - 350 nm
FWS-B/H/CL-F03	348 - 390 nm
FWS-B/H/CL-F04	385 - 435 nm
FWS-B/H/CL-F05	430 - 490 nm
FWS-B/H/CL-F06	485 - 550 nm
FWS-B/H/CL-F07	545 - 620 nm
FWS-B/H/CL-F08	615 - 700 nm
FWS-B/H/CL-F09	690 - 790 nm
FWS-B/H/CL-F10	775 - 890 nm
FWS-B/H/CL-F11	880 - 1015 nm
FWS-B/H/CL-F12	1000 - 1150 nm
FWS-B/H/CL-F13	1140 - 1310 nm
FWS-B/H/CL-F14	1300 - 1500 nm
FWS-B/H/CL-F15	1475 - 1650 nm

*B - Basic, H - High Resolution, CL - CenterLine

*Note : For the optimal performance of Wavelength Selectors, the incident light should be collimated.

*Note : F00-F02 models can block up to 600 nm.

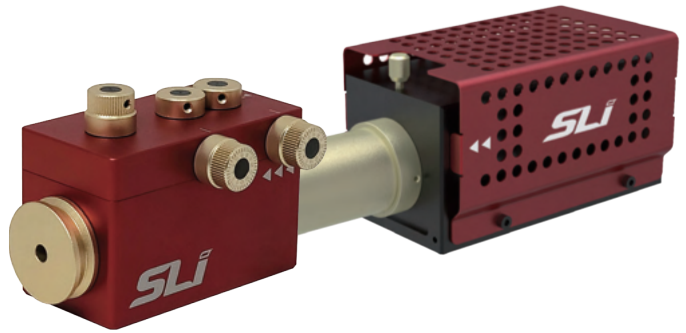


Flexible Wavelength Selector – Manual *Application*

Imaging detection



FWS-Basic + CCD Camera



FWS-High Resolution + Mighty Light

Compact collinear geometry enables a simple integration into microscopes, telescopes, cameras, light sources and other common photonic instruments.

Custom Wavelength Selectors (CWS) *Custom performance in a cost-effective format*

| Optical Specifications

- Transmission: > 75 %
- Tunable spectral wavelength : 255 - 1650 nm
- Customer defined FWHM range (fixed)
- Aperture size : 5 mm or 10 mm
- Minimum : 3 - 5 nm
- Maximum : 13 - 15 nm
- Out-of-band blocking : OD 6 (0.0001 % transmission)



*Note : 255 - 348 nm can block up to 600 nm.

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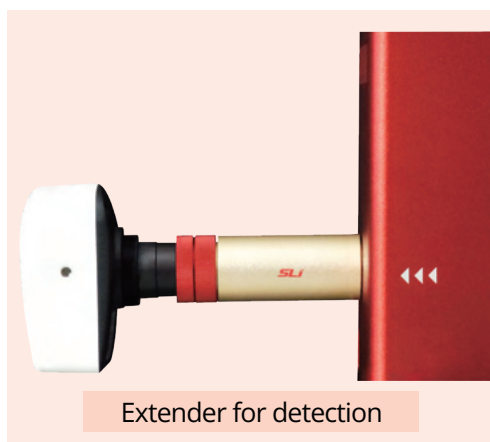
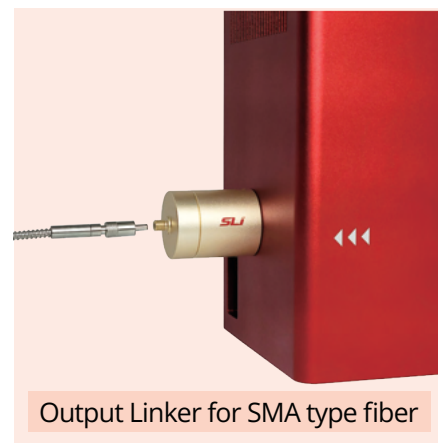
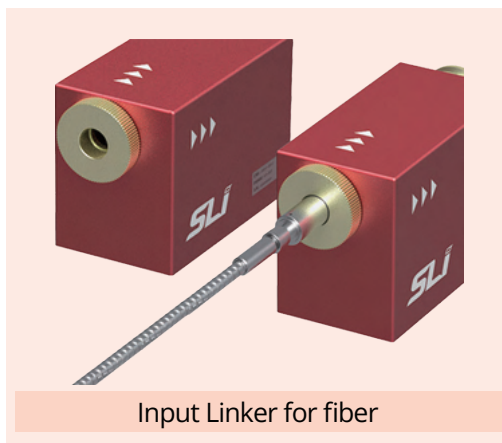
Wavelength Selector Accessories

Input / Output Linker, Fiber Adapter, Mounting Base

Wavelength Selector Accessories are the monochromatic replacements for more accurate spectroscopic and spectral imaging applications. Accessories enable Wavelength Selectors to be applied in various applications, such as SMA type fibers, light guides, supercontinuum lasers and so on.

| Linker, Adapter, Mounting Base

A key component in the application of light sources with FWS can be used to collimate output of wavelength selectors and connect supercontinuum sources to FWS. Mounting base enables stable and adjustable mounting, without the use of time-consuming screws, bolts or clips.



LIGHT SOURCES



- **Powerful and Compact Broadband Light Sources**
- **Pico-second Pulsed Supercontinuum Lasers / Tungsten-Halogen / Plasma / LED**
- **For the Most Advanced Illumination Applications**
(Microscopy, Spectroscopy, Machine Vision and Spectral Imaging applications)

Mighty Light – Tungsten Halogen (ML-TH)

A compact source of low-noise white light with versatile output modules

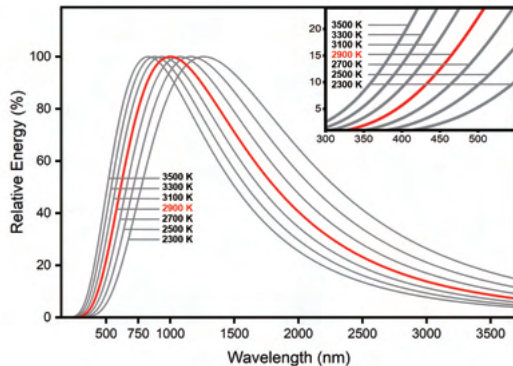
ML-TH integrates a Tungsten Halogen bulb and power supply with a control board that delivers uniquely low-noise output. By applying a series of pre-aligned bolt-on accessories, ML-TH can be directly coupled into a microscope and fiber bundle with its light beam homogenized and collimated. ML-TH can also be integrated with our unique Wavelength Selector devices to create a tunable monochromatic beam.

Specifications

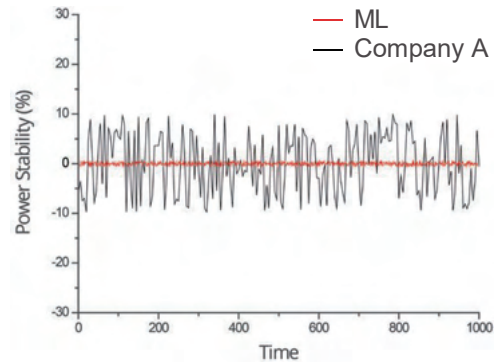
- Type of lamp: Tungsten Halogen
- Spectral wavelength : 350 - 2500 nm
- Lamp power consumption: 12 W
- Power stability: < 0.5 %
- Bulb lifetime: ~ 1,000 hours
- Color temperature : 2,900 K
- Dimensions: 125 x 75 x 70 mm
- Power supply : DC 9 V at 2 A
- Electric requirement : AC 100 - 240 V, 50/60 Hz



Features



Broad output spectrum



Low power fluctuation (High stability) : < 0.5 %

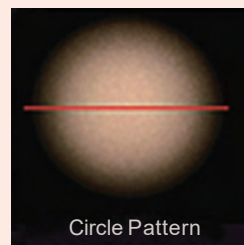
Collimated light



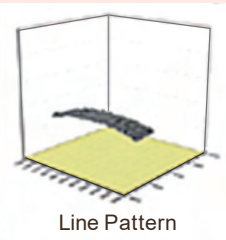
Collimated



Collimated (magnified)



Circle Pattern

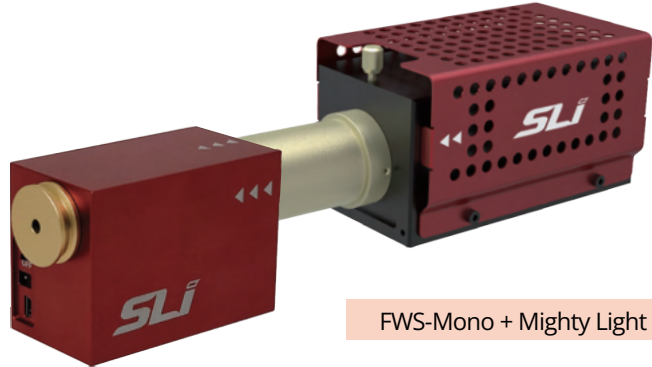


Line Pattern

Uniform intensity when collimated

Mighty Light – Tungsten Halogen (ML-TH) Application

Broadband tunable light source



FWS-Mono + Mighty Light

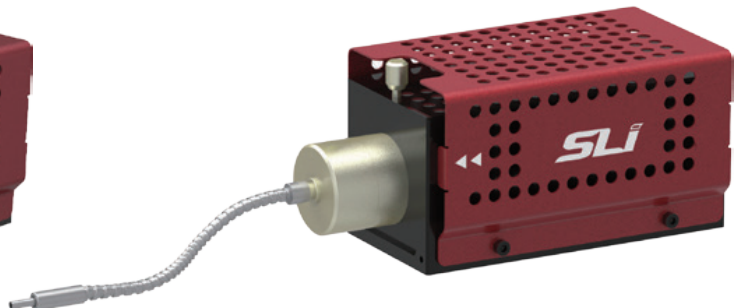
- Applicable to Flexible Wavelength Selector
- Creates a tunable monochromatic beam
- Homogenizes and collimates emitted light beam

Free space



Collimator adaptor

Fiber coupling



Fiber adaptor

Mighty Light PLUS – Tungsten Halogen (MLP-TH)

A powerful source of low-noise white light with versatile output modules

The Mighty Light PLUS (MLP) is a broadband light source that provides 10X higher spatial brightness than competitive sources: delivering up to 7 W of collimated output from a 10 mm diameter flexible light guide. Useful output spans 300 to 2500 nm and the low-noise output power is smoothly adjustable from 0 - 100 %. Applications include microscopy, white light interferometry, machine vision, and precision inspection.

Specifications

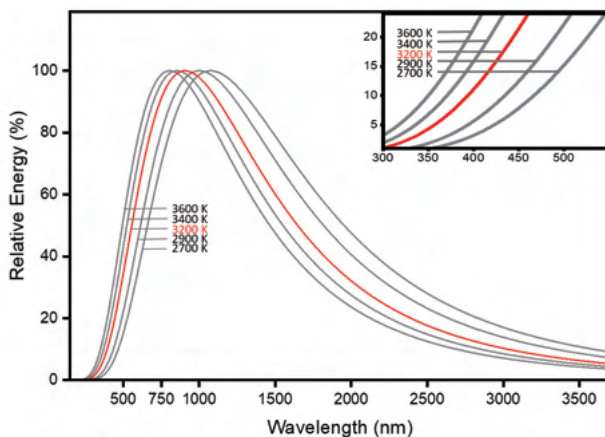
- Type of lamp : Tungsten Halogen
- Spectral wavelength : 300 - 2500 nm
- Lamp power consumption : 250 W
- Power stability : < 0.7 %
- Bulb lifetime : ~ 1000 hours
- Color temperature : 3,200 K
- Dimensions : 340 x 160 x 140 mm
- Power control knob : 0 - 100 %
- Electrical requirements : AC 100 - 240 V, 50/60 Hz



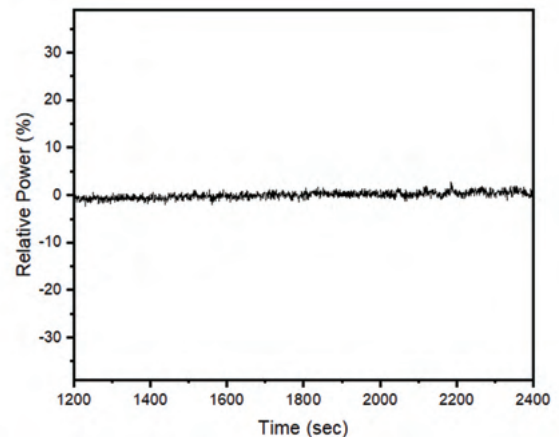
Optional Specifications

- Correlated color temperature (CCT) : 3,400 K
- Bulb lifetime : ~ 500 hours

Features



Broad output spectrum



Low power fluctuation (High stability) : < 0.7 %

Supercontinuum Laser - SL-Pico

Powerful pico-second pulsed laser source with precision software controls

SL-Pico and SL-Pico-M are Spectrolight's latest pico-second pulsed supercontinuum laser sources. These lasers are capable of delivering up to 20 W output power and a wide spectral range of 410 - 2400 nm. These state-of-the-art pico-second pulsed lasers are applicable in many fields that require high repetition rate capability, such as low noise OCT, fluorescence microscopy, nanophotonics and super-resolution imaging.



Specifications

SL-Pico

- Total power : > 8 W (10 - 20 W Optional)
- Spectral wavelength : 430 - 2400 nm
- Visible power : > 1 W
- Power stability : < 1 %
- Fundamental pulse width : < 300 ps
- Internal repetition rate : 10 kHz - 80 MHz adjustable
- External trigger (Optional) (SMA) : 100 kHz - 2 MHz or 1MHz ~ 80MHz, External trigger range 0 - 5 V
- Sync(trigger) Output : (Optional) NIM Output 0 - (-1) V or TTL Output 0 - 3.3 V
- Beam diameter and quality : ~ 2 mm@633 nm; M₂<1.1
- Beam divergence (Half angle) : < 1 mrad
- State of polarization : Unpolarized
- Length of output fiber : 1.5 m
- Dimension and weight : 400 x 300 x 180 mm, < 20 kg
- Input power: AC 100 - 240 V, 50/60 Hz
- Data interface : USB

SL-Pico-M

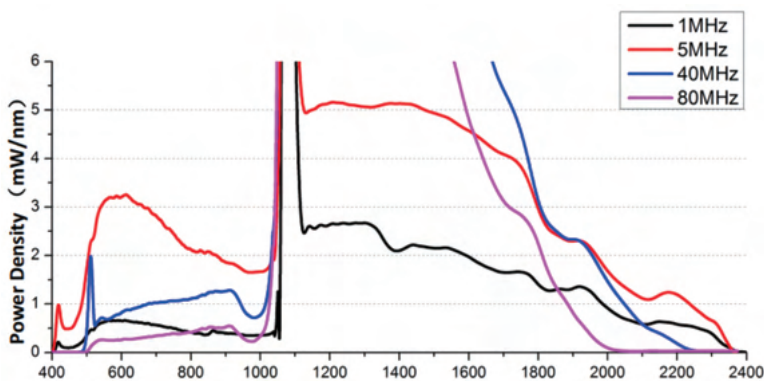
- Total power : > 7 W
- Spectral wavelength : 410 - 2400 nm
- Visible power : > 2 W
- Power stability : < 1 %
- Fundamental pulse width : ~ 20 ps
- Internal repetition rate : 80 MHz (fixed)
- External trigger (Optional) (SMA) : TTL Output 0 - 2.8 V
- Sync(trigger) Output : TTL Output 0 - 2.8 V
- Beam diameter and quality : ~ 2 mm@633 nm; M₂<1.1
- Beam divergence (Half angle) : < 1 mrad
- State of polarization : Unpolarized
- Length of output fiber : 1.5 m
- Dimension and weight : 400 x 300 x 180 mm, < 20 kg
- Input power: AC 100 - 240 V, 50/60 Hz
- Data interface : USB

Supercontinuum Laser – SL-Pico Application

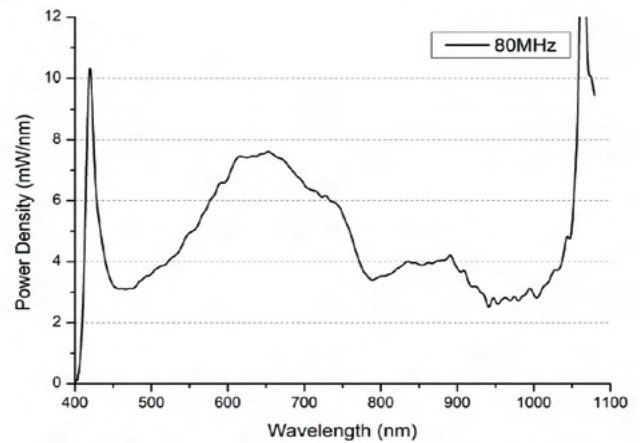


- Powerful Supercontinuum Laser Source
- Easy connection and alignment using the WS-SCAY accessory.
- Fully compatible and tunable with the Flexible Wavelength Selector.

FWS-Poly + SL-Pico-M



Typical spectrum of SL-Pico at each repetition rate (1, 5, 40, 80 MHz)



Typical spectrum of SL-Pico-M at 80 MHz

Laser-Driven Light Source (LDLS™)

EQ-99X-FC LDLS™

Energetiq's EQ-99X-FC LDLS is a high brightness fiber-coupled source with a broad wavelength range from UV to Visible and into the NIR region.

The unique principle of operation provides extremely bright, spatially and spectrally stable broadband radiation from 190 nm - 2500 nm with a lifetime greater than 10,000 hours.

Specifications

- Broadband optical power : 95 mW
(Measured with thermopile : UVFIBERX-230 fiber optic cable)
- Spectral wavelength : 190 - 2500 nm
- Spectral radiance (at 500 nm) : 25 - 75 mW/mm².sr.nm
(Different from the models)
- Plasma size (average FWHM) : 100 μm x 180 μm
- Numerical aperture (Output Fiber) : 0.22 NA
- Bulb lifetime : ~ 10,000 hours
- Laser class : Class 1 (IEC 60825-1: 2014)
- Power consumption : 100 - 240 V, 175 W, 50/60 Hz
- Dimension
 - Lamphead : 76 x 83 x 76 mm (0.7 kg)
 - Controller : 111 x 107 x 301 mm (1.4 kg)



EQ-99X-FC LDLS™

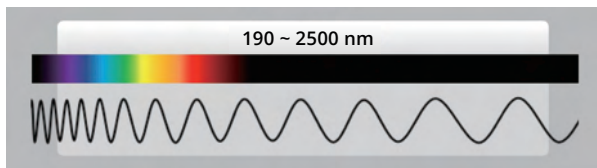


Fiber collimator



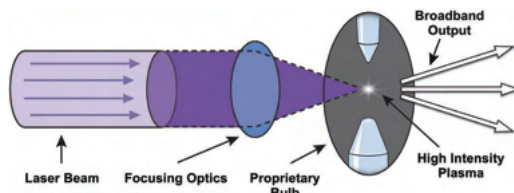
Broadband fiber

Features

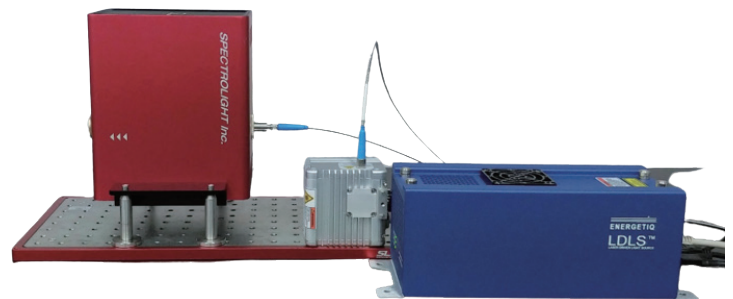


Wide broadband spectral range

With ENERGETIQ's LDLS and FWS-Poly, it is possible to generate a tunable light covering a wide spectral range, 255 - 1650 nm.



Small, high brightness broadband output



Application with FWS

TUNABLE LIGHT SOURCE



- Award Winning Tunable Light Source
- Wide and Precise Spectral Wavelength Selection
- Versatile Applications in both Scientific and Industrial fields

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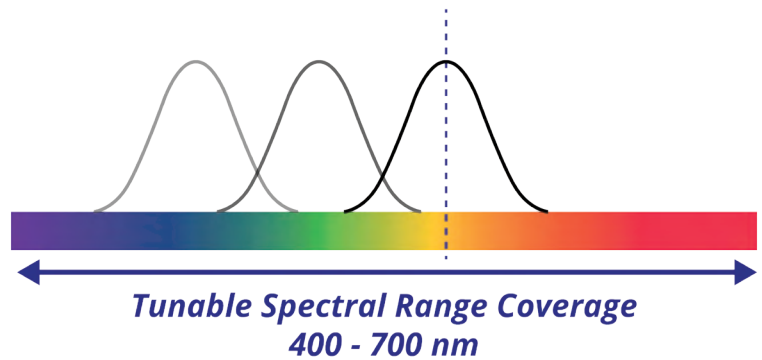
Tunable Mighty Light (TML)

Fully tunable high power light source

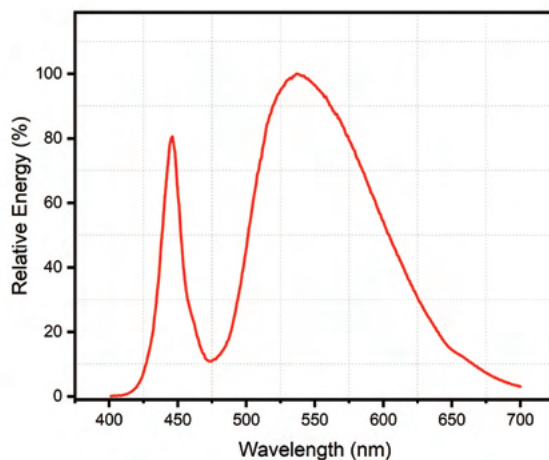
Tunable Mighty Light (TML) is an innovative tunable light source that delivers a wide tunable spectral range of 400 - 700 nm. TML combines a powerful broadband light source, together with Spectrolight's very own tunable bandpass filter within a compact automatic device to provide effortless tuning of light.

Specifications

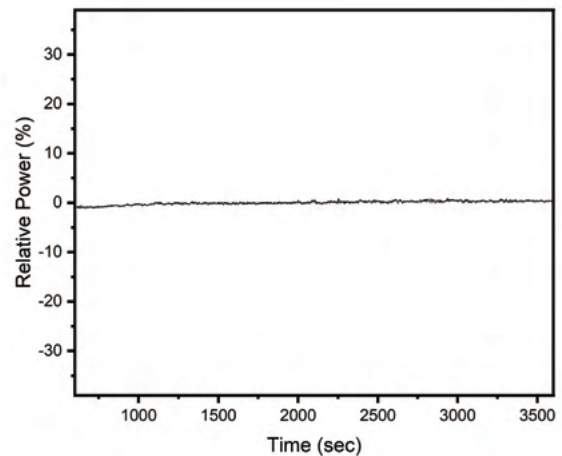
- Type of lamp : LED
- Tunable spectral wavelength : 400 - 700 nm
- FWHM : < 30 nm
- Visible power : > 3 W
- Color temperature : 7500 K
- LED lifetime : ~ 50,000 hours
- Dimensions : 424 x 255 x 239 mm
- Power control : Software control (0 - 100 %)
- Electrical requirements : AC 100 - 240 V, 50/60 Hz



Features

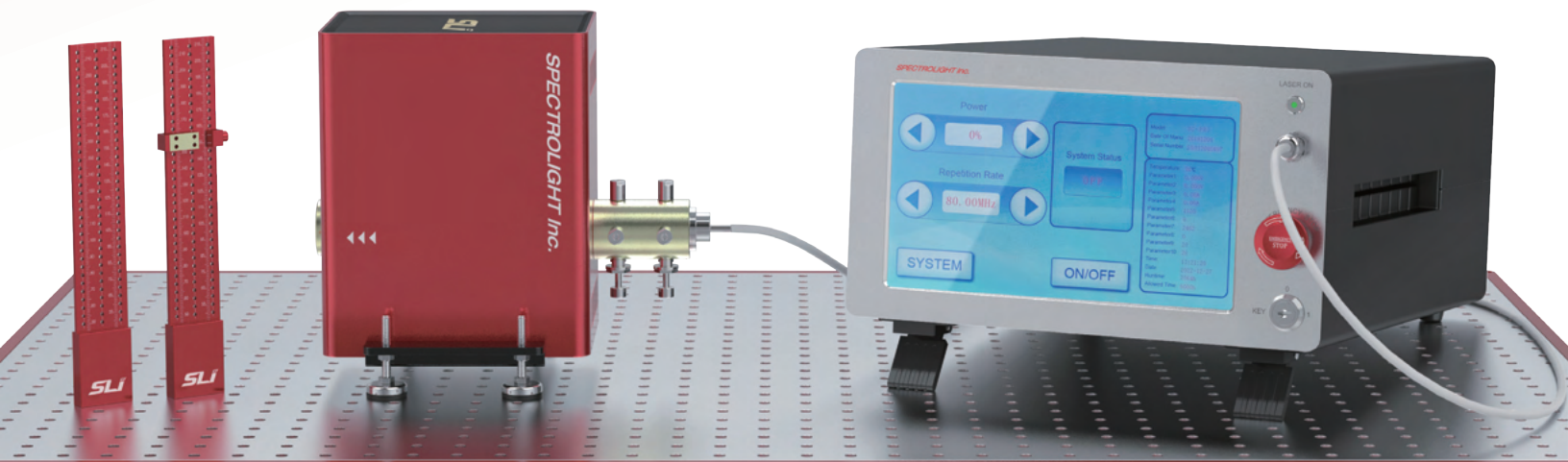


Light source full spectrum



Low power fluctuation (High stability) : < 0.4 %

TUNABLE LASER SYSTEM



- **All-In-One PLUG&PLAY Tunable Laser Systems**
- **Easy, Effective and Reliable applications**
- **Fully Customizable to meet your every needs**

Tunable Laser System (TLS)

Fully tunable pico-second pulsed laser system by Spectrolight

The Tunable Laser System is the all in one tunable light source system by Spectrolight Inc. It enables easy and precise selection of a wide spectral wavelength range of 410 - 1650 nm. This PLUG&PLAY system requires no alignments or adjustments allowing instant application.

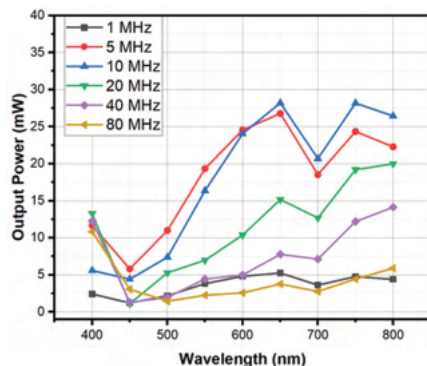


*Tunable Laser System (TLS) components - Supercontinuum Laser (SL-Pico / SL-Pico-M), FWS-Poly, Mounting Base for FWS-Poly, Laptop with User Software, Light Aligner x2, IR Slider and all necessary linker accessories.

Specifications

TLS-Pico

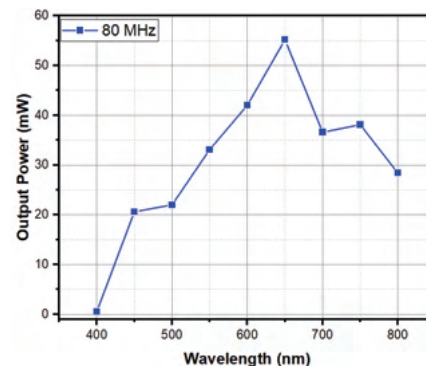
- Total power : > 8 W
- Visible power : > 1 W
- Tunable spectral wavelength : 430 - 1050 nm
(User defined range available up to 1650 nm)
- Tunable FWHM range : 3 - 15 nm (above 880 nm : 5 - 15 nm)
- Fundamental pulse width : < 300 ps
- Internal repetition rate : 10 kHz - 80 MHz adjustable
- Beam diameter and quality : ~ 2 mm@633nm;M2<1.1
- Beam divergence (Half angle) : < 1 mrad
- State of polarization : Unpolarized
- Sync(trigger) output (SMA) : NIM output 0 - 1 V



Output power at FWHM 15 nm (TLS-Pico-B)

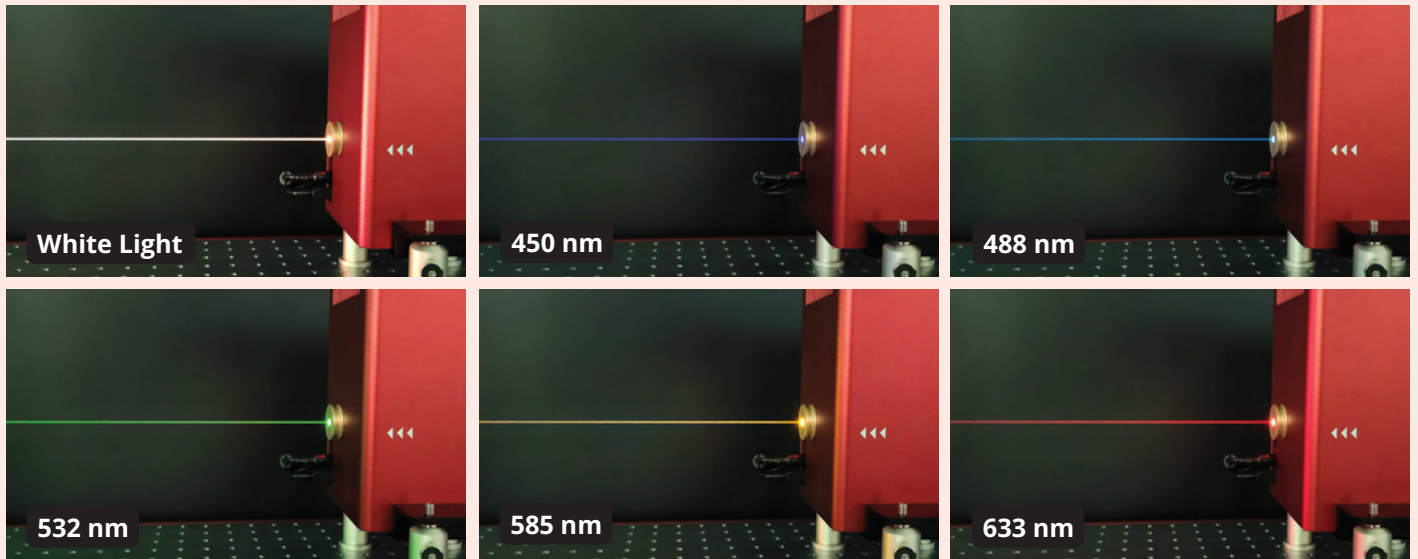
TLS-Pico-M

- Total power : > 7 W
- Visible power : > 2 W
- Tunable spectral wavelength : 410 - 1050 nm
(User defined range available up to 1650 nm)
- Tunable FWHM range : 3 - 15 nm (above 880 nm : 5 - 15 nm)
- Fundamental pulse width : ~ 20 ps
- Internal repetition rate : 80 MHz
- Beam diameter and quality : ~ 2 mm@633nm;M2<1.1
- Beam divergence (Half angle) : < 1 mrad
- State of polarization : Unpolarized
- Sync(trigger) output (SMA) : TTL output 0 - 2.8 V

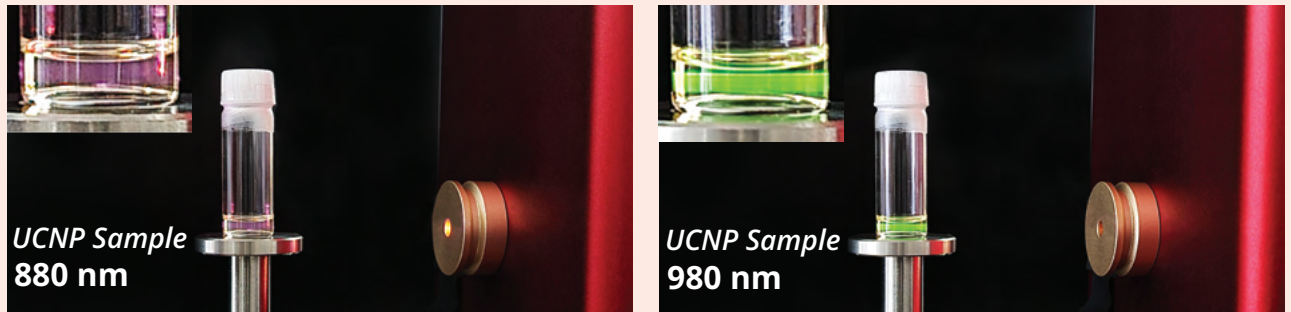


Output power at FWHM 15 nm (TLS-Pico-M-B)

Features

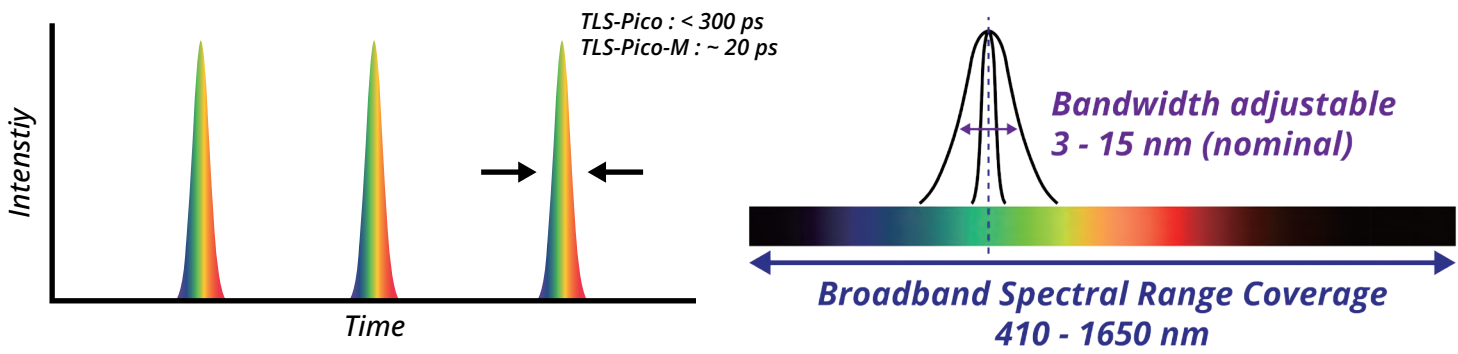


TLS Output results in the visible range



*UCNP (Upconverting Nanoparticles) emission by Near-Infrared excitation.

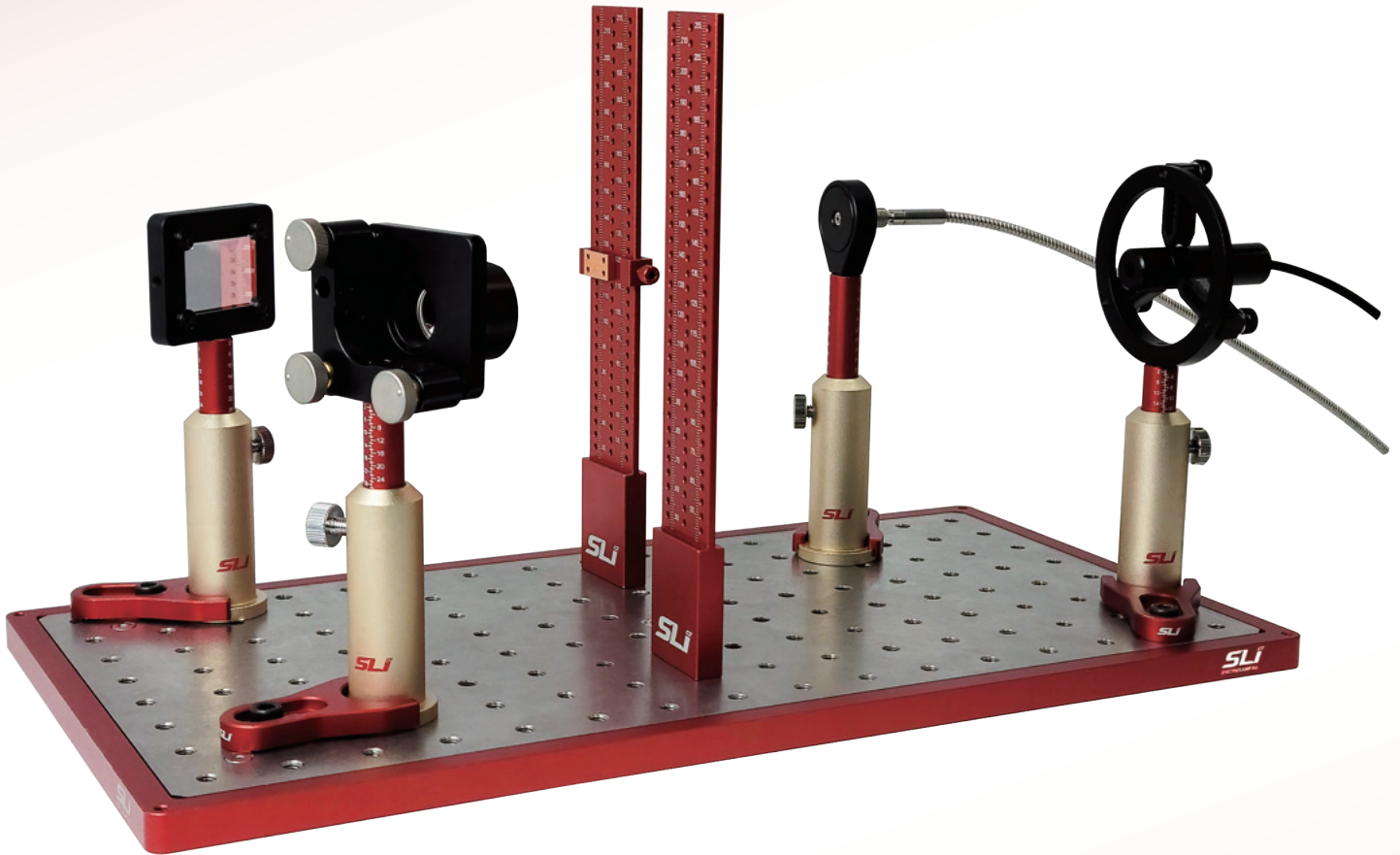
TLS Output results in the IR range



Tunable pico-second pulsed laser

Wide tunable spectral range

OPTICAL COMPONENTS



- Easy and Minute Light Alignment
- Precision Engraved Fiducials
- Lightweight and High Quality Stainless Board

Optomechanics - Light Aligner (LA)

Compatible for both Metric and Imperial (inch) versions

The Light Aligner (LA) is an anodized metal ruler that can be temporarily and accurately placed on any optical table, breadboard, or metal surface. LA solves the common problem of the alignment of laser or light beams in an optomechanical system on a breadboard or optical table. This brings complete freedom in its placement or precise beam alignment regardless of the mounting hole pattern on a table or breadboard. Optional extensions double the maximum height. The IR Slider accessory enables alignment of the IR beam which is otherwise invisible to the naked eye.

Specifications

Type	Item Number	Detail
Basic	LA-I8-B	Imperial Aligner Basic, 8.6 inches, Two poles
	LA-M220-B	Metric Aligner Basic, 220 mm, Two poles
Center	LA-I8-C	Imperial Aligner Center, 8.6 inches, Center pole
	LA-M220-C	Metric Aligner Center, 220 mm, Center pole
Free	LA-I8-F	Imperial Aligner Free standing, 8.6 inches, No poles
	LA-M220-F	Metric Aligner Free standing, 220 mm, No poles
Extender	LA-I8-E	Imperial Aligner Extender, 7.5 inches
	LA-M220-E	Metric Aligner Extender, 193 mm
Slider	LA-IR-C	Bolt-on accessory for IR detection, 18 mm x 10 mm

Features



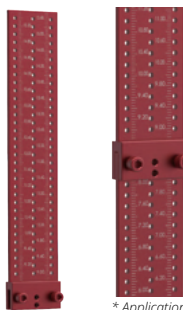
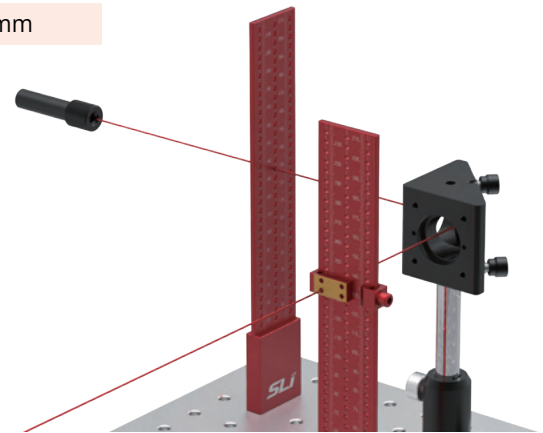
Basic
Centers between rows of holes



Center
Centers over row of holes

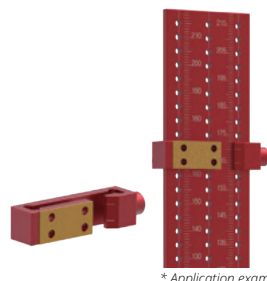


Free Standing
Positions anywhere



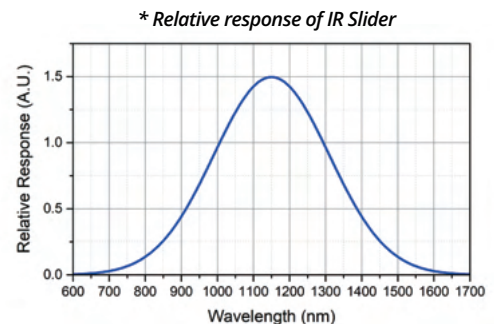
Extender
Extends length of Light Aligner

** Application example*



IR Slider
Aligns infrared ray

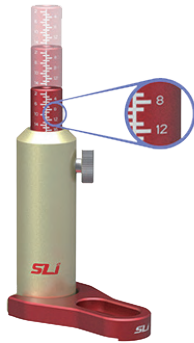
** Application example*



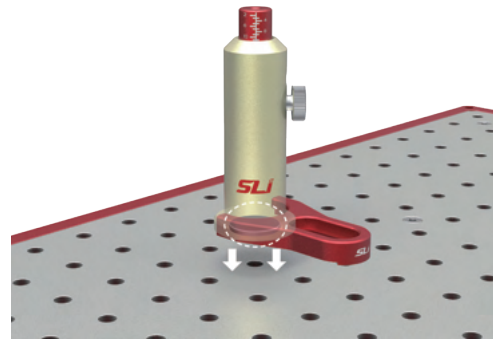
Optomechanics – Ruler Post

The Ruler Post is a simple solution to the frequent challenge of setting post mounted optics to a fixed/ common height above an optical table or breadboard. A clever locking clamp and magnetic base allows the Ruler Post to be securely located anywhere on the table surface.

Features



Precision engraved fiducials

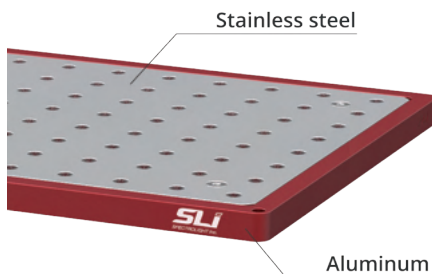


Magnetic base / Fork clamp

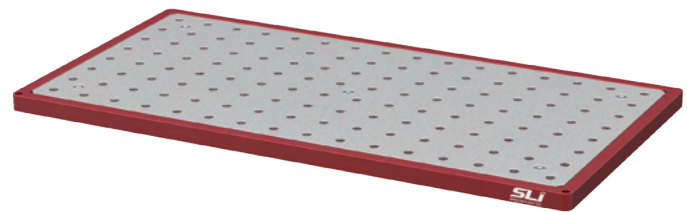
Optomechanics – Hybrid Board

The Hybrid Board is a thin, lightweight breadboard. Due to the aluminum base, it is suitable for optical assemblies, small sub-systems, and small optical experiments. The main work space is made of high quality stainless steel, allowing stable and precise application through magnetic accessories.

Features



High quality stainless steel for magnetic appliances



Light-weight aluminum base

Optomechanics – Fibers

Our multimode fibers are durable and high-quality patch cords that consistently deliver uniform results with minimal signal and energy variance. These products offer a wide range of fiber-optic cables, which can be made in a variety of lengths and configurations to meet users' needs.

Features



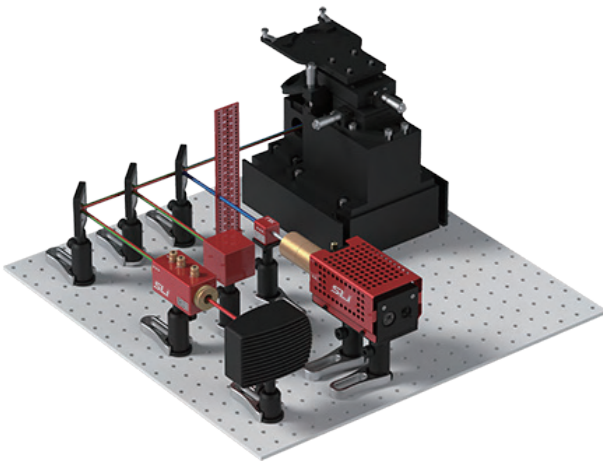
Durable and high-quality patch cords



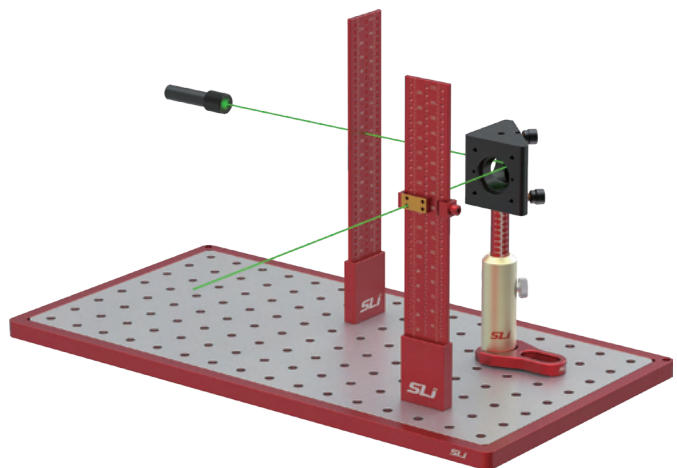
SMA type connectors

Optomechanics Application

Modular optical microscopes



Infrared-ray light beam alignment



SPECTROMETERS



- **State-of-the-art Performance in a Miniaturized Package**
- **Easy-to-use Functions by PC control**
- **Available to the Diverse Applications**

Spectrometers

A family of array-based spectrometers delivering computer controlled state-of-the-art-performance in a miniaturized package. These light-weight portable spectrometers are perfect for on-the-move applications.



SP245



SP642



SP303



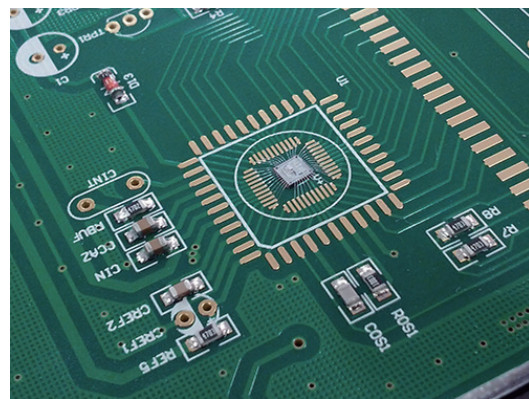
SP303-HRS

Features

- Scientific-grade performance
- Low dark noise and stray light
- Flexible optical input: direct to slit or via fiber
- Optimum performance for a wide range of application
- High speed data acquisition
- Light-weight, portable, minaturized device



High performance with high-tech detector



High signal to noise ratio



Light Done Right!

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