

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-RED



Poly-BLUE



Mono

FWS- Manual (Manual type)



Basic



High Resolution



CenterLine



Customized

Ideal for

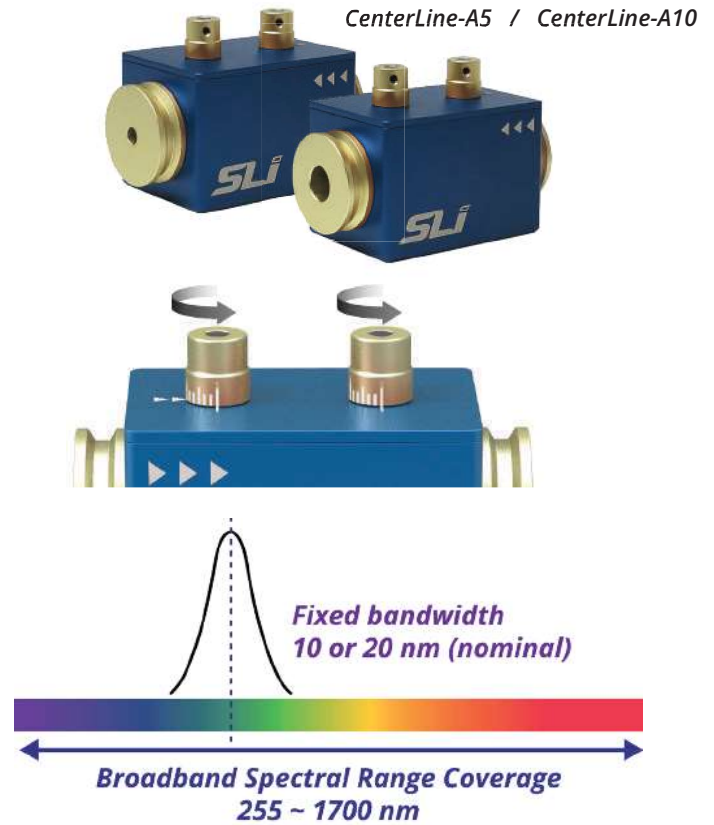
- Fluorescence microscopy
- Hyperspectral imaging
- Life sciences instrumentation
- Machine vision
- Laboratory research

Key product advantages

- Broad wavelength tuning (255 - 1700 nm)
- Adjustable bandwidth (FWHM 2 - 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 – CenterLine

Model	CWL (nm)	FWHM (nm)
CenterLine-F00	255 - 290	10 or 20 (nominal)
CenterLine-F01	280 - 310	10 or 20 (nominal)
CenterLine-F02	310 - 350	10 or 20 (nominal)
CenterLine-F03	348 - 390	10 or 20 (nominal)
CenterLine-F04	385 - 435	10 or 20 (nominal)
CenterLine-F05	430 - 490	10 or 20 (nominal)
CenterLine-F06	485 - 550	10 or 20 (nominal)
CenterLine-F07	545 - 620	10 or 20 (nominal)
CenterLine-F08	615 - 700	10 or 20 (nominal)
CenterLine-F09	690 - 790	10 or 20 (nominal)
CenterLine-F10	775 - 890	10 or 20 (nominal)
CenterLine-F11	880 - 1015	10 or 20 (nominal)
CenterLine-F12	1000 - 1150	10 or 20 (nominal)
CenterLine-F13	1140 - 1310	10 or 20 (nominal)
CenterLine-F14	1300 - 1500	10 or 20 (nominal)
CenterLine-F15	1475 - 1700	10 or 20 (nominal)



* Center Wavelength tuning range can vary by a few nanometers depending on the product.
Minimum step size of center wavelength : 1 nm / Step size of bandwidth (FWHM) : 1 nm

Aperture size

CenterLine-A5	5 mm	Suitable for supercontinuum lasers
CenterLine-A10	10 mm	Suitable for light sources with large beam size (tungsten-halogen, plasma, LED)

* For optimal performance input light source must be collimated

* Manual models require a spectrometer for operation

	CenterLine-A5	CenterLine-A10
Spectral range (nm)	255 - 1700	255 - 1700
Bandwidth (FWHM) (nm)	20 (nominal)	20 (nominal)
Aperture size (mm)	5	10
Out of band blocking	OD 5 up to 1700 nm	
Damage threshold	Peak Fluence < 1.75 Joules/cm ² (~70 spot diam., 10 ns pulse, 10 Hz repetition rate, 532 nm LASER) CW (Continuous wave) Intensity < 2 MW/cm ² (1064 nm, ~ 90 μm spot diam.)	
Transmission efficiency (%)	≥ 75 % (in proportion to the input light power / FWHM . 10 nm)	
Dimension (L x W x H, mm)	40 x 58 x 40	
Weight (kg)	0.2	