

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

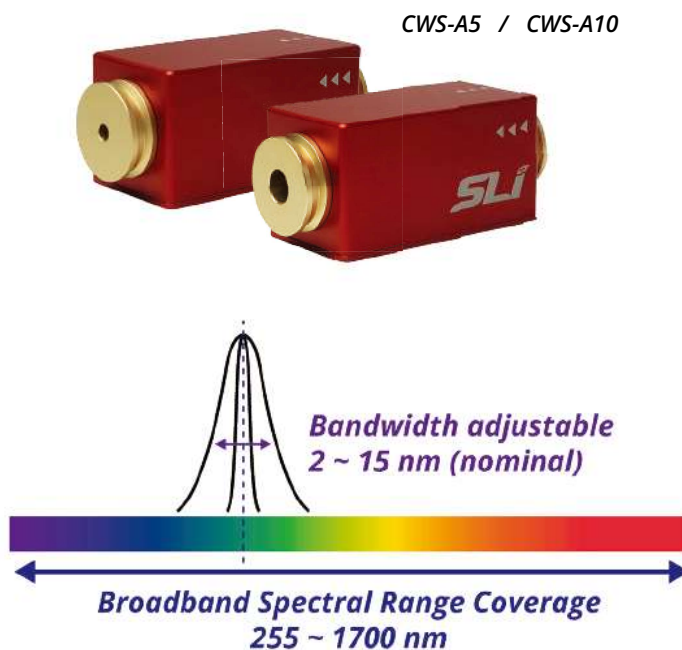
- Fluorescence microscopy
- Hyperspectral imaging
- Life sciences instrumentation
- Machine vision
- Laboratory research

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

Custom Wavelength Selector - CWS

Model	CWL (nm)	FWHM (nm)
CWS-F00	255 - 290	2 - 15
CWS-F01	280 - 310	2 - 15
CWS-F02	310 - 350	2 - 15
CWS-F03	348 - 390	2 - 15
CWS-F04	385 - 435	2 - 15
CWS-F05	430 - 490	2 - 15
CWS-F06	485 - 550	2 - 15
CWS-F07	545 - 620	2 - 15
CWS-F08	615 - 700	2 - 15
CWS-F09	690 - 790	3 - 15
CWS-F10	775 - 890	3 - 15
CWS-F11	880 - 1015	5 - 15
CWS-F12	1000 - 1150	5 - 15
CWS-F13	1140 - 1310	5 - 15
CWS-F14	1300 - 1500	5 - 15
CWS-F15	1475 - 1700	7 - 13



- * User specified single wavelength and bandwidth
- * CWS can be shipped within 72 hours

Aperture size

CWS-A5	5 mm	Suitable for supercontinuum lasers
CWS-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

	CWS-A5	CWS-A10
Spectral range (nm)	255 - 1700 (single wavelength)	255 - 1700 (single wavelength)
Bandwidth (FWHM) (nm)	2 - 15 (single bandwidth)	2 - 15 (single bandwidth)
Aperture size (mm)	5	10
Out of band blocking	OD 10 in tuning range, OD 5 in spectral range 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 76 x 40	
Weight (kg)	0.2	