

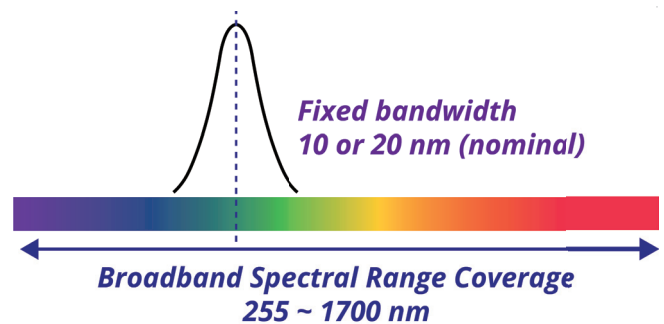


# Flexible Wavelength Selector – Poly-BLUE

Model name	Spectral range (nm)
Poly-BLUE-UV	280 - 390
Poly-BLUE-VIS	430 - 790
Poly-BLUE-IR	775 - 1150
Poly-BLUE-SWIR	1140 - 1700
Poly-BLUE-Custom	Custom range



- \* Center Wavelength tuning range can vary by a few nanometers depending on the product.
- \* Minimum step size of center wavelength : 1 nm
- \* Bandwidth (FWHM) Fixed : 10 or 20 nm (nominal)



	FWHM															
	10 or 20 (nominal)															
CWL	255 - 290	280 - 310	310 - 350	348 - 390	385 - 435	430 - 490	485 - 550	545 - 620	615 - 700	690 - 790	775 - 890	880 - 1015	1000 - 1150	1140 - 1310	1300 - 1500	1475 - 1700
Poly-BLUE-UV		●	●	●												
Poly-BLUE-VIS						●	●	●	●	●						
Poly-BLUE-IR											●	●	●			
Poly-BLUE-SWIR														●	●	●
Poly-BLUE-Custom	Up to 9 in one device															

Poly-BLUE-A5	Aperture size: 5 mm	Suitable for lasers with small beam size, such as supercontinuum lasers
Poly-BLUE-A10	Aperture size: 10 mm	Suitable for light sources with large beam size (tungsten-halogen, plasma, LED)

\* For optimal performance input light source must be collimated

## **| Detailed Models**

Model	Optical Specifications
<b>Poly-BLUE10-UV-A5</b>	Spectral range (nm) : 280 - 390 FWHM range (nm, nominal) : 10 Aperture size (mm) : 5
<b>Poly-BLUE10-VIS-A5</b>	Spectral range (nm) : 430 - 790 FWHM range (nm, nominal) : 10 Aperture size (mm) : 5
<b>Poly-BLUE10-IR-A5</b>	Spectral range (nm) : 775 - 1150 FWHM range (nm, nominal) : 10 Aperture size (mm) : 5
<b>Poly-BLUE10-SWIR-A5</b>	Spectral range (nm) : 1140 - 1700 FWHM range (nm, nominal) : 10 Aperture size (mm) : 5
<b>Poly-BLUE10-Custom-A5</b>	USER SPECIFIED CUSTOM RANGE (Selectable wavelength range from 255 to 1700 nm) FWHM range (nm, nominal) : 10 Aperture size (mm) : 5
<b>Poly-BLUE10-UV-A10</b>	Spectral range (nm) : 280 - 390 FWHM range (nm, nominal) : 10 Aperture size (mm) : 10
<b>Poly-BLUE10-VIS-A10</b>	Spectral range (nm) : 430 - 790 FWHM range (nm, nominal) : 10 Aperture size (mm) : 10
<b>Poly-BLUE10-IR-A10</b>	Spectral range (nm) : 775 - 1150 FWHM range (nm, nominal) : 10 Aperture size (mm) : 10
<b>Poly-BLUE10-SWIR-A10</b>	Spectral range (nm) : 1140 - 1700 FWHM range (nm, nominal) : 10 Aperture size (mm) : 10
<b>Poly-BLUE10-Custom-A10</b>	USER SPECIFIED CUSTOM RANGE (Selectable wavelength range from 255 to 1700 nm) FWHM range (nm, nominal) : 10 Aperture size (mm) : 10

## **| Detailed Models**

Model	Optical Specifications
<b>Poly-BLUE20-UV-A5</b>	Spectral range (nm) : 280 - 390 FWHM range (nm, nominal) : 20 Aperture size (mm) : 5
<b>Poly-BLUE20-VIS-A5</b>	Spectral range (nm) : 430 - 790 FWHM range (nm, nominal) : 20 Aperture size (mm) : 5
<b>Poly-BLUE20-IR-A5</b>	Spectral range (nm) : 775 - 1150 FWHM range (nm, nominal) : 20 Aperture size (mm) : 5
<b>Poly-BLUE20-SWIR-A5</b>	Spectral range (nm) : 1140 - 1700 FWHM range (nm, nominal) : 20 Aperture size (mm) : 5
<b>Poly-BLUE20-Custom-A5</b>	USER SPECIFIED CUSTOM RANGE (Selectable wavelength range from 255 to 1700 nm) FWHM range (nm, nominal) : 20 Aperture size (mm) : 5
<b>Poly-BLUE20-UV-A10</b>	Spectral range (nm) : 280 - 390 FWHM range (nm, nominal) : 20 Aperture size (mm) : 10
<b>Poly-BLUE20-VIS-A10</b>	Spectral range (nm) : 430 - 790 FWHM range (nm, nominal) : 20 Aperture size (mm) : 10
<b>Poly-BLUE20-IR-A10</b>	Spectral range (nm) : 775 - 1150 FWHM range (nm, nominal) : 20 Aperture size (mm) : 10
<b>Poly-BLUE20-SWIR-A10</b>	Spectral range (nm) : 1140 - 1700 FWHM range (nm, nominal) : 20 Aperture size (mm) : 10
<b>Poly-BLUE20-Custom-A10</b>	USER SPECIFIED CUSTOM RANGE (Selectable wavelength range from 255 to 1700 nm) FWHM range (nm, nominal) : 20 Aperture size (mm) : 10

## Full Specifications

	Poly-BLUE10-A5	Poly-BLUE10-A10	Poly-BLUE20-A5	Poly-BLUE20-A10
Spectral range (nm) <sup>1)</sup>	255 - 1700 nm			
Bandwidth(FWHM) (nm, nominal) <sup>2)</sup>	10 nm		20 nm	
Aperture size (mm)	5 mm	10 mm	5 mm	10 mm
Out of band blocking <sup>3)</sup>	OD 10 up to 1700 nm			
Step size of center wavelength & Bandwidth (nm)	1 nm			
Damage threshold	Pulse : Peak Fluence < 1.75 joules/cm <sup>2</sup> ( ~ 70 μm spot diam., 10 ns, 10 Hz, 532 nm Laser ) CW (Continuous wave) : Intensity < 2 MW/cm <sup>2</sup> (1064 nm, ~ 90 μm spot diam.)			
Transmission efficiency (% , nominal) <sup>4)</sup>	> 75 % (avg.)			
Scanning speed (ms) <sup>5)</sup>	30 - 300 ms (depending on step size)			
Software	FWS-Auto ver 4.2			
Electrical requirement	AC 100 - 240 V, 50/60 Hz			
Power supply	DC 12 V, 5 A			
Data interface	USB 2.0			
Dimension (L x W x H, mm)	137 mm x 124 mm x 214 mm			
Weight (kg)	3.15 kg			

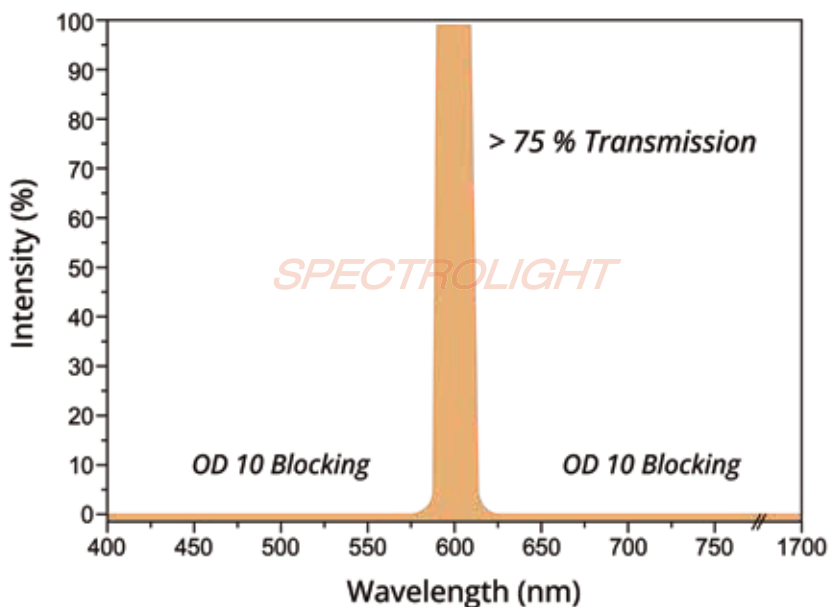
1) Specified center wavelength(CWL) tolerance for Poly-BLUE : ±1 nm.

2) Specified full width at half maximum(FWHM) tolerance: ±2.5 nm for Poly-BLUE.

3) OD 7 up to 600 nm for F00-F02 filters; for blocking beyond this range, dedicated out-of-band blockers such as WS-BL400UV and WS-BL1700SWIR are available.

4) Transmission efficiency values are based on filters with a 10 nm full width at half maximum(FWHM). At wavelengths below 400 nm, efficiency remains ≥50%.

5) Scanning speed represents time required for a single wavelength-to-wavelength transition, depending on step size.



\* Transmission may differ depending on specific wavelengths