

# Flexible Wavelength Selector – Poly-BLUE



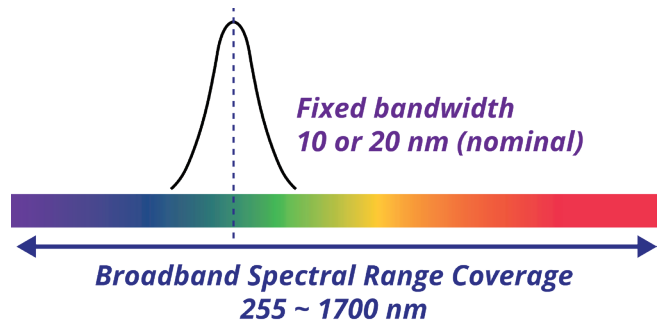
Model name	Spectral range (nm)
Poly-BLUE-UV	280 - 390
Poly-BLUE-VIS	430 - 790
Poly-BLUE-IR	775 - 1150
Poly-BLUE-SWIR	1140 - 1700
Poly-BLUE-Custom	Custom range



\* 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											

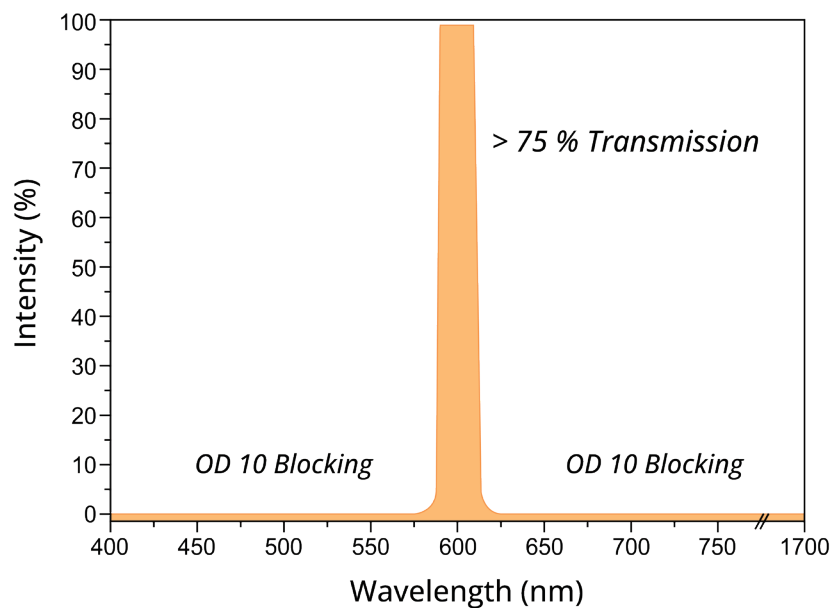
Aperture size

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

\* For optimal performance input light source must be collimated

## Full Specifications

	Poly-BLUE-A5	Poly-BLUE-A10
Spectral range (nm)	255-1700	255-1700
Bandwidth (FWHM) (nm)	10 or 20 (fixed)	10 or 20 (fixed)
Aperture size (mm)	5	10
Out of band Blocking	OD 5 in tuning range, OD 10 in spectral range up to 1700 nm	
Step size of center wavelength (nm)	1.0	
Step size of bandwidth (FWHM) (nm)	1.0	
Wavelength accuracy (nm) : CWL, FWHM	< 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 (%)	≥ 75 % (in proportion to the input light power / FWHM > 10 nm)	
Scanning speed (ms)	20 - 200 ms (depending on step size)	
Software	FWS-Auto ver 4.1	
Dimension (L x W x H, mm)	136.7 x 124 x 214	
Input power	DC 12 V, 5 A	
Electric requirement	AC 100 - 240 V, 50/60 Hz	
Data interface	USB 2.0	
Weight (kg)	3.15	



## Wavelength Selection Guide

### Poly-RED

FWHM	CWL	UV	VIS	IR	SWIR	CUSTOM
2 - 15	255 - 290					
	280 - 310	●				
	310 - 350	●				
	348 - 390	●				
	385 - 435					
	430 - 490		●			
	485 - 550		●			
	545 - 620		●			
	615 - 700		●			
3 - 15	690 - 790		●			<i>Up to 9 in one device</i>
	775 - 890			●		
5 - 15	880 - 1015			●		
	1000 - 1150			●		
	1140 - 1310				●	
	1300 - 1500				●	
7 - 13	1475 - 1700				●	

\* Units : nm

### Poly-BLUE

FWHM	CWL	UV	VIS	IR	SWIR	CUSTOM
10 or 20 (nominal)	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					●	

\* Units : nm

#### Aperture size

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