

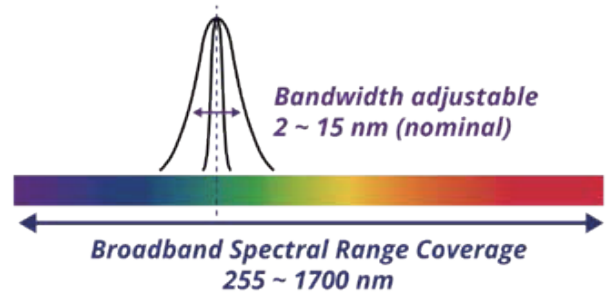


# Flexible Wavelength Selector – Poly-RED

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



Spectral range (nm)	Tunable bandwidth (nm)
255 - 700	2 - 15
701 - 890	3 - 15
891 - 1500	5 - 15
1475 - 1700	7 - 13



\* 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

	FWHM	2 - 15									3 - 15		5 - 15			7 - 13	
	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-RED-UV			●	●	●												
Poly-RED-VIS						●	●	●	●	●							
Poly-RED-IR											●	●	●				
Poly-RED-SWIR														●	●	●	
Poly-RED-Custom									Up to 9 in one device								

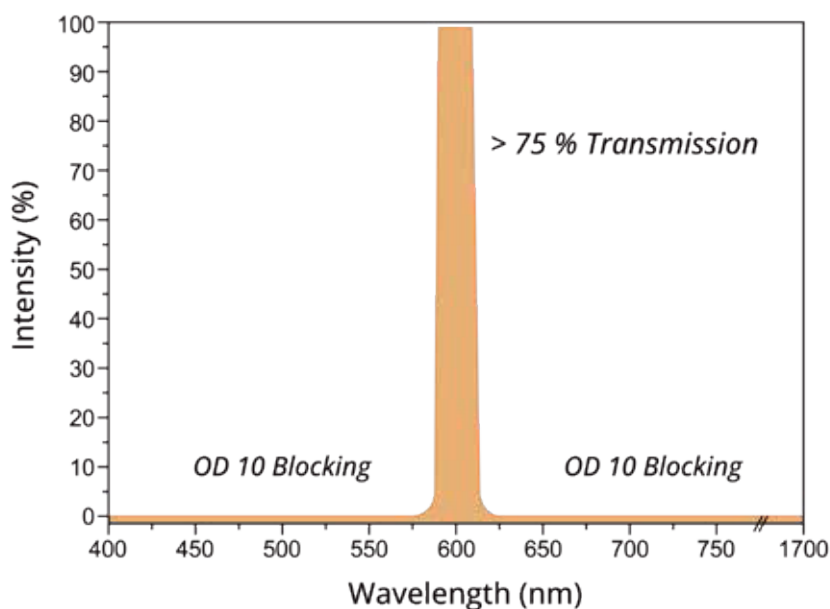
Aperture size

Poly-RED-A5	5 mm	Suitable for supercontinuum lasers
Poly-RED-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**

	<b>Poly-RED-A5</b>	<b>Poly-RED-A10</b>
<b>Spectral range (nm)</b>	255-1700	255-1700
<b>Bandwidth (FWHM) (nm)</b>	2-15 (nominal)	2-15 (nominal)
<b>Aperture size (mm)</b>	5	10
<b>Out of band Blocking</b>	OD 10 up to 1700 nm	
<b>Step size of center wavelength (nm)</b>	1.0	
<b>Step size of bandwidth (FWHM) (nm)</b>	1.0	
<b>Wavelength accuracy (nm) : CWL, FWHM</b>	< 1 nm	
<b>Damage threshold</b>	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.)	
<b>Transmission efficiency (%)</b>	≥ 75 % (in proportion to the input light power / FWHM > 10 nm)	
<b>Scanning speed (ms)</b>	20 - 200 ms (depending on step size)	
<b>Software</b>	FWS-Auto ver 4.2	
<b>Dimension (L x W x H, mm)</b>	186.2 x 124 x 214	
<b>Input power</b>	DC 12 V, 5 A	
<b>Electric requirement</b>	AC 100 - 240 V, 50/60 Hz	
<b>Data interface</b>	USB 2.0	
<b>Weight (kg)</b>	4.2	



\* Transmission may differ depending on specific wavelengths

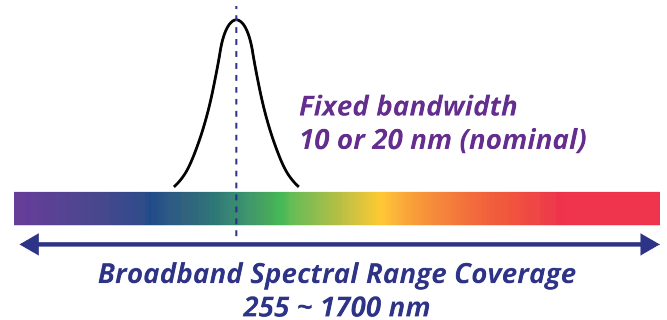


# Flexible Wavelength Selector – Poly-BLUE

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)



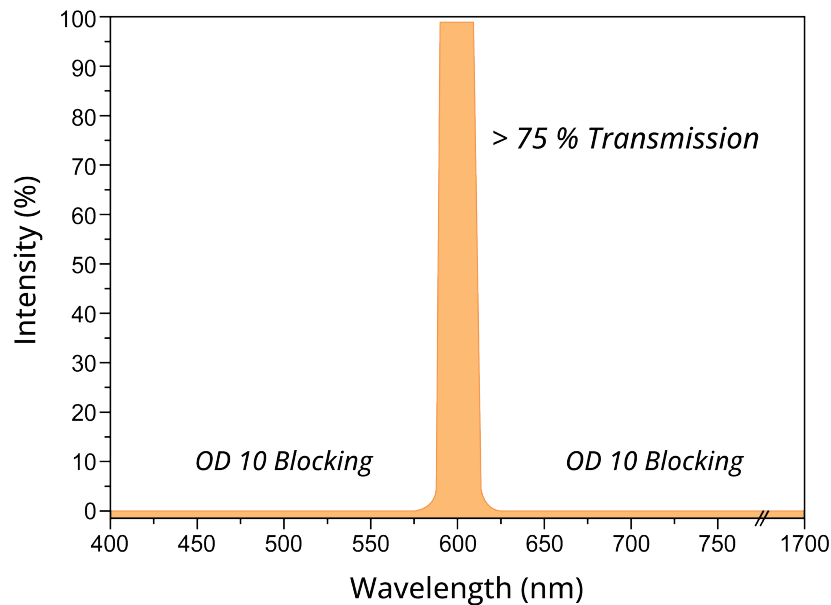
	FWHM	10 or 20 (nominal)															
	CWL	255 - 290	280 - 310	310 - 350	348 - 390	385 - 435	430 - 490	485 - 550	545 - 620	615 - 700	690 - 790	775 - 890	880 - 1015	1000 - 1150	1140 - 1310	1300 - 1500	1475 - 1700
Poly-BLUE-UV			●	●	●												
Poly-BLUE-VIS						●	●	●	●	●							
Poly-BLUE-IR						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

	<b>Poly-BLUE-A5</b>	<b>Poly-BLUE-A10</b>
<b>Spectral range (nm)</b>	255-1700	255-1700
<b>Bandwidth (FWHM) (nm)</b>	10 or 20 (fixed)	10 or 20 (fixed)
<b>Aperture size (mm)</b>	5	10
<b>Out of band Blocking</b>	OD 5 in tuning range, OD 10 in spectral range up to 1700 nm	
<b>Step size of center wavelength (nm)</b>	1.0	
<b>Step size of bandwidth (FWHM) (nm)</b>	Fixed 10 or 20 nm	
<b>Wavelength accuracy (nm) : CWL, FWHM</b>	< 1 nm	
<b>Damage threshold</b>	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.)	
<b>Transmission efficiency (%)</b>	≥ 75 % (in proportion to the input light power / FWHM > 10 nm)	
<b>Scanning speed (ms)</b>	20 - 200 ms (depending on step size)	
<b>Software</b>	FWS-Auto ver 4.2	
<b>Dimension (L x W x H, mm)</b>	136.7 x 124 x 214	
<b>Input power</b>	DC 12 V, 5 A	
<b>Electric requirement</b>	AC 100 - 240 V, 50/60 Hz	
<b>Data interface</b>	USB 2.0	
<b>Weight (kg)</b>	3.15	



\* Transmission may differ depending on specific wavelengths

## 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		●			
	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)