

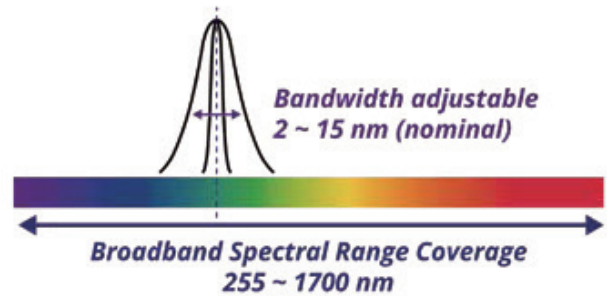
# Flexible Wavelength Selector – Poly-RED



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															

Poly-RED-A5	Aperture size: 5 mm	Suitable for lasers with small beam size, such as supercontinuum lasers
Poly-RED-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-RED-UV-A5</b>	Spectral range (nm) : 280 - 390 FWHM range (nm, nominal) : 2 - 15 Aperture size (mm) : 5
<b>Poly-RED-VIS-A5</b>	Spectral range (nm) : 430 - 790 FWHM range (nm, nominal) : 2 - 15(430 - 700 nm), 3 - 15(701 - 790 nm) Aperture size (mm) : 5
<b>Poly-RED-IR-A5</b>	Spectral range (nm) : 775 - 1150 FWHM range (nm, nominal) : 3 - 15(775 - 890 nm), 5 - 15(891 - 1150 nm) Aperture size (mm) : 5
<b>Poly-RED-SWIR-A5</b>	Spectral range (nm) : 1140 - 1700 FWHM range (nm, nominal) : 5 - 15(1140 - 1500 nm), 7 - 13(1501 - 1700 nm) Aperture size (mm) : 5
<b>Poly-RED-Custom-A5</b>	USER SPECIFIED CUSTOM RANGE (Selectable wavelength range from 255 to 1700 nm) Aperture size (mm) : 5
<b>Poly-RED-UV-A10</b>	Spectral range (nm) : 280 - 390 FWHM range (nm, nominal) : 2 - 15 Aperture size (mm) : 10
<b>Poly-RED-VIS-A10</b>	Spectral range (nm) : 430 - 790 FWHM range (nm, nominal) : 2 - 15(430 - 700 nm), 3 - 15(701 - 790 nm) Aperture size (mm) : 10
<b>Poly-RED-IR-A10</b>	Spectral range (nm) : 775 - 1150 FWHM range (nm, nominal) : 3 - 15(775 - 890 nm), 5 - 15(891 - 1150 nm) Aperture size (mm) : 10
<b>Poly-RED-SWIR-A10</b>	Spectral range (nm) : 1140 - 1700 FWHM range (nm, nominal) : 5 - 15(1140 - 1500 nm), 7 - 13(1501 - 1700 nm) Aperture size (mm) : 10
<b>Poly-RED-Custom-A10</b>	USER SPECIFIED CUSTOM RANGE (Selectable wavelength range from 255 to 1700 nm) Aperture size (mm) : 10

## Full Specifications

	Poly-RED-A5	Poly-RED-A10
Spectral range (nm) <sup>1)</sup>	255 - 1700 nm	
Bandwidth(FWHM) (nm, nominal) <sup>2)</sup>	Max : 3 - 15 nm / Min : 7 - 13 nm	
Aperture size (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)	186 mm x 124 mm x 214 mm	
Weight (kg)	4.2 kg	

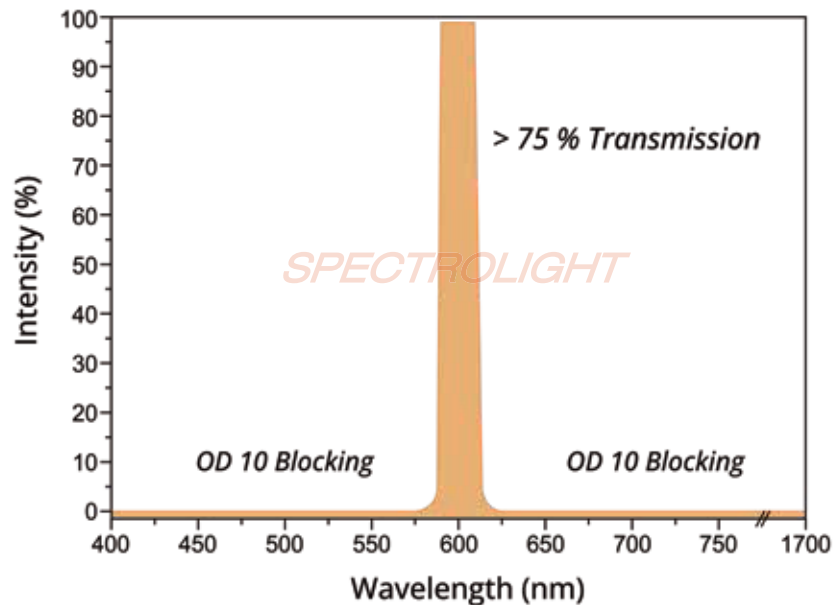
1) Specified center wavelength(CWL) tolerance for Poly-RED : ±1 nm.

2) Specified full width at half maximum(FWHM) tolerance: ±1 nm for Poly-RED.

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