

Linear Variable Filter

Description

Linear Variable Filter is a wedged filter, the center wavelengths change continuously along one dimension of the filter. A single Linear variable filter could replace a number of fixed filters in an instrument, the center wavelength could be adjusted by sliding the filter. A band pass filter can be realized by combing Linear Variable Long Wave Pass filter and Linear Variable Short Wave Pass filter, and it is possible to meet deeper blocking by overlaying two linear variable filters.

Applications

- Hyperspectral Imaging
- Fluorescence Microscopy
- Medical Endoscope

Benefits

- Compact
- Light efficient
- Hight SNR



Standard Products

Material	Optical, Glass Fused Silica, Silicon, Sapphire	
Size(Effective area)	22.5mm*13.7mm	22.5mm*13.7mm
Wavelength Ranges	380nm-850nm	400-1000nm
Peak Transmission	5%-90%	≥60%
Bandwidth(FWHM)	2% of center wavelength	1.5% of center wavelength
Blocking	OD3	OD3
Linearity	22.3nm/mm	50nm/mm
Surface Quality	60-40	60-40
Transmitted Wavefront distortion	$\lambda/10$	$\lambda/10$

