Variable Neutral Density Attenuators/Filters

Continuously Variable Attenuator

For maximum ease of use there is the continuously variable attenuator that can vary its attenuation over a very wide range just by pushing and pulling the filters laterally. The attenuator consists of two opposite wedges of ND glass. The surfaces are arranged so that no parallel surfaces face each other so as to eliminate interference effects.

The variable attenuator uses the same C mount thread as the other components so it can be combined with additional stackable filters and beam splitters if necessary as shown.



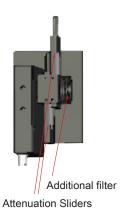
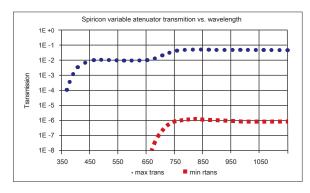


Illustration of variable attenuator mounted with additional fillter and beam splitters



Item	Variable attenuator	
Nominal OD (vis)	1 – 6 continuously variable	
Aperture	Ø20mm	
Optical quality	2 waves in visible	
Damage threshold	50W/cm ² , 1J/cm ² for ns pulses	

Ordering Information		
Item	Description	P/N
LBF-50 filter set	Compact screw in filter holder with set of ND filters. Attenuations from low to 106	SP90081
ND1 stackable filter	4mm spacing screw on filter for camera with transmission of between 20% and 5% depending SPZ0	
(red housing)	on spectral range Can be stacked and combined with other filters and beam splitters. One filter is	
	included with Spiricon cameras	
ND2 stackable filter	4mm spacing screw on filter for camera with transmission of between 7% and 0.5% depending on SPZ	
(black housing)	spectral range. Can be stacked and combined with other filters and beam splitters. Two filters are	
	included with Spiricon cameras	
ND3 stackable filter	4mm spacing screw on filter for camera with transmission of between 2% and 0.05% depending on	SPZ08253
(green housing)	spectral range. Can be stacked and combined with other filters and beam splitters	
Variable filter	Continuously variable filter for complete control over beam intensity. Especially useful for pulsed	SPZ17012
	lasers. Varies the intensity over more than 4 orders of magnitude between wavelengths 350nm and	
	1100nm. Can be stacked and combined with other filters and beam splitters	
Filter holder and 50x50 filter Filter holder with set of 4 standard Schott 50X50mm neutral density filters. Useful to reduce		SPZ08240
set	intensity before inputting into 4X beam reducer. Mounts to standard 1/4" thread, 1/2" diameter	
	laboratory rod	
Filter for 355nm-V2; give an	Silicon cameras can see the 355nm 3rd harmonic radiation of YAG. The YAG however usually	SPZ08246
undistorted image of the	emits some light at 532nm and 1064nm as well. This filter filters out the other 2 wavelengths to give	
355nm light.	undistorted image of the 355nm light	
Filter for 1300nm	For all cameras that can operate at 1300nm but are quite insensitive there. This filter filters out all	SPZ08242
	light below 1200nm to allow viewing 1300nm radiation without background interference	
4mm spacer	Blank stackable spacer / filter holder where 4mm spacing is needed but no attenuation is needed	SPG01698
5mm spacer	Spacer ring for adapting 12.5mm recess CS cameras to 17.5mm recess C mount lenses	SPG02106
8mm spacer	Spacer ring for adapting 4.5mm recess cameras to work with 12.5mm recess CS mount lenses	SPG02067



