

KEY FEATURES

FOR ALL BEAMAGE MODELS

We offer various SM1-threaded absorptive ND filters that can be fixed directly on the aperture of the Beamage camera via a SM1 to C-mount adaptor. We also offer SM2-threaded filters that can be fixed on the Beamage-4M-FOCUS via a SM2 to T-Mount adaptor.

> HIGH-QUALITY OPTICS

These filters reduce the intensity of all wavelengths without affecting the wavefront of the beam or distorting the image.

> STACKABLE ATTENUATION

Subsequent filters can be stacked directly on each other. Sets of 3 filters or 6 filters as well as individual filters are available.

COMPATIBLE PRODUCTS







BEAMAGE-4M-FOCUS (for BA32-1KW only)



PH series

OVERVIEW OF THE MODELS

MODEL NAME		EQUIVALENT	TRANSMITTANCE	
		ATTENUATION	AT 633 NM	
SM1 FILTERS	SM2 FILTERS			
ND0.5	ND0.5-FOCUS	(1/3.16)	~32%	
ND1.0	ND1.0-FOCUS	(1/10)	~10%	
ND2.0	ND2.0-FOCUS	(1/100)	~1%	
ND3.0	ND3.0-FOCUS	(1/1000)	~0.1%	
ND4.0	ND4.0-FOCUS	(1/10 000)	~0.01%	
ND5.0	ND5.0-FOCUS	(1/100 000)	~0.001%	
NDSET-6 (Set of 6 filters)				
NDSET-3 (Set of 3 filters: ND1, ND2, ND3)				
ND-H (ND filter ho	ID-H (ND filter holder)			



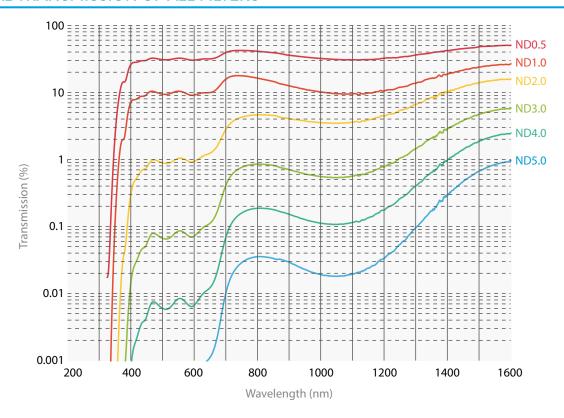


	ND0.5 TO ND5.0
Spectral range	400 nm° - 1595 nm
Filter diameter	25 mm Ø
Clear aperture	22.5 mm ϕ (90% of diameter)
Dimensional tolerance	+0.0/-0.25 mm
Optical density tolerance	± 5%
Parallelism	< 10 arcsec
Transmitted wavefront error	< \/10 at 633 nm
Surface flatness	< \h/4
Surface quality	40 - 20 Scratch-Dig
Maximum power	1W
Damage thresholds	100 W/cm² or 3 J/cm²
Product page	



a. For ND4.0 filter, lower limit with other models.

SPECTRAL TRANSMISSION OF ALL FILTERS





MULTIPLES USES

- Monitor power and beam profile simultaneously
- Polarization insensitive beam-splitter with no back-reflections
- > Optical pick-off for use with our energy or power detectors
- Attenuator for our high sensitivity detectors like M6 series and PH series

COMPATIBLE PRODUCTS



BEAMAGE-4M



BEAMAGE-4M-FOCUS (for BA32-1KW only)



UP55N-40S-H9 (for BA32-1KW only)



PH series



M6 series

KEY FEATURES

MANAGE THE LASER POWER

CMOS sensors have low saturation levels as well as low damage thresholds. It is thus very important that you control your laser power to get the best measurement possible and avoid damaging the BEAMAGE camera.

> SAMPLE YOUR LASER BEAM

The BA series optical attenuators use Fresnel reflections on two orthogonal wedges to pick off a small fraction of the input beam. The incoming beam polarization state and irradiance are preserved.

ACCESSORIES



BA32 mounting kit for BEAMAGE-4M



BA32 mounting kit for BEAMAGE-4M-FOCUS



BA32 mounting kit for UP55N-40S-H9











	BA16-60S	BA16K-150S-H5-D0	BA16K-500F-H9-D0	BA32-1KW
MAXIMUM POWER	60 W	150 W	500 W	1000 W
EFFECTIVE APERTURE	16 mm Ø	16 mm Ø	16 mm Ø	32 mm Ø
COOLING METHOD	Convection	Convection	Fan	Water
MEASUREMENT CAPABILITY				
Spectral range	200 - 2100 nm			
Integrated power detector	N/A	UP19K-15S-H5-D0	UP19K-110F-H5-D0	Compatible with UP55 serie (not included)
Fan input voltage	N/A	N/A	12 VDC	N/A
Equivalent attenuation	1/1700 @ 1064 nm	1/1700 @ 1064 nm	1/1700 @ 1064 nm	1/1900 @ 1064 nm
Optical wedges material	UV fused silica (uncoated)			
Residual beam deviation	5.6°	5.6°	5.6°	3.6° @ 1064 nm
Polarization correction	Yes (pair of orthogonal wedges)			
DAMAGE THRESHOLDS			,	
Maximum power	60 W	150 W	500 W	1000 W
Maximum average power density	10 MW/cm ²	10 MW/cm ²	10 MW/cm ²	10 MW/cm ²
Maximum energy density	10 J/cm ²	10 J/cm ²	10 J/cm ²	10 J/cm ²
PHYSICAL CHARACTERISTICS				
Aperture diameter	16 mm Ø	16 mm Ø	16 mm Ø	32 mm Ø
Dimensions	45H x 47W x 81D mm	54H x 50W x 91D mm	54H x 54H x 126D mm	145H x 250W x 132D mm
Weight	0.26 kg	0.37 kg	0.46 kg	5.5 kg
Mounting thread	SM1	SM1	SM1	SM2
Included adaptor	SM1 external threaded tube	SM1 external threaded tube	SM1 external threaded tube	N/A
ORDERING INFORMATION				
Compatible Stand	STAND-S-233	STAND-S-233	STAND-S-233	2x STAND-S-443-C-M
Product Page				



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