OPT MAN MODERATE POWER BEAM EXPANDERS



OPTOMAN IBS-coated optics deliver excellent performance with **low losses** and **reliable beam quality**. Optics ensure high transmission and stable optical properties, **reducing energy loss** and **maintaining beam integrity**. With precise IBS coated optics, beam expanders feature excellent environmental stability and provide a dependable solution for applications that require consistent performance.



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OPT MAN ZOOM BEAM EXPANDERS 1X - 3X



Features

- Sturdy mechanical design.
- Fine divergence adjustment.
- Compact size.

LIDT

- >6.5 J/cm² @ 1064 nm, 10 ns, 100 Hz
- >2 J/cm² @ 532 nm, 10 ns, 100 Hz
- >0.8 J/cm² @ 355 nm, 10 ns, 100 Hz

Specifications

Wavelength 343, 355, 515,	532, 1030, 1064, 1070 nm	
Magnification range	1x-3x	
Pointing stability	<1 mrad	
Optical design	Gallileo	
Diffraction limited performance		
Number of lenses	4	
Transmittance	>99%	
No internal ghosts	Yes	
No internal ghosts in reversed	No	
Mounting thread	M34 x 0.5 on exit end	
Clamping	Ø37.5 x 17 mm cylinder	

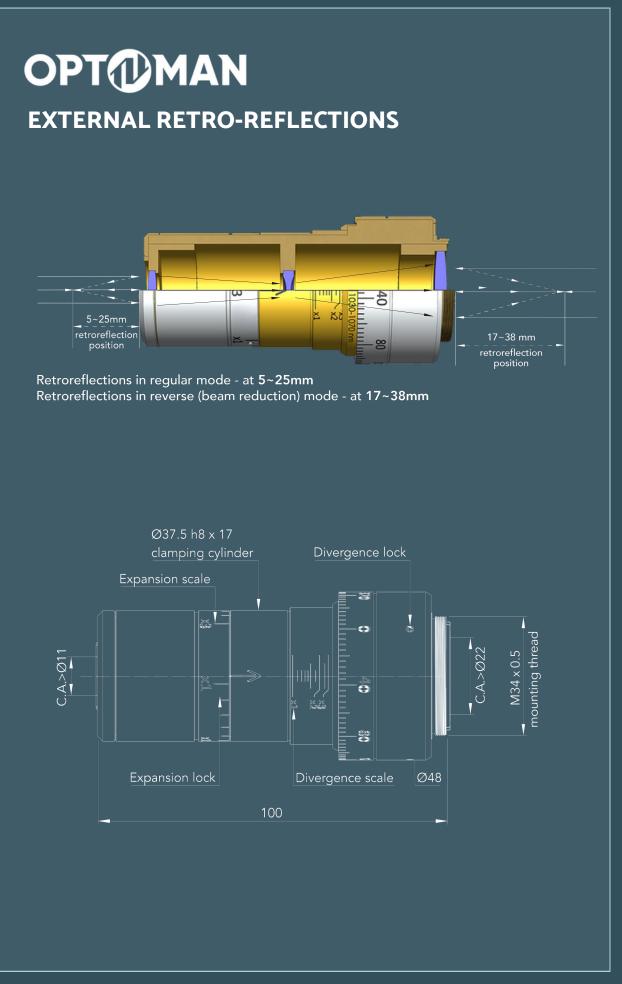
Max recommended input beam Ø

	343-355 nm	515-532 nm	1030-1070 nm
x1 -	7 mm	8 mm	9 mm
x2 -	4.5 mm	5 mm	6 mm
x3 -	3.5 mm	4 mm	5 mm



Notes

- Max input beam Ø recommendation is for diffraction limited operation
- Extra collimation adjustment range for highly diverging beams
- Lockable lens positions
- High-purity fused silica lenses
- Laser should be turned off while zooming
- Custom wavelengths available



OPTOMAN ZOOM BEAM EXPANDERS 0.6X - 1.9X



Features

- Sturdy mechanical design.
- Fine divergence adjustment.
- Compact size.

LIDT

- >6.5 J/cm² @ 1064 nm, 10 ns, 100 Hz
- >2 J/cm² @ 532 nm, 10 ns, 100 Hz
- >0.8 J/cm² @ 355 nm, 10 ns, 100 Hz

Specifications

Wavelength 343, 355, 515	, 532, 1030, 1064, 1070 nm	
Magnification range	0.6x-1.9x	
Pointing stability	<1 mrad	
Optical design	Gallileo	
Diffraction limited performance Y		
Number of lenses	3	
Transmittance	>99%	
No internal ghosts	Yes	
Mounting thread	M34 x 0.5 on exit end	
Clamping	Ø37.5 x 17 mm cylinder	

Max recommended input beam Ø

	343-355 nm	515-532 nm	1030-1070 nm
0.6x-	6.5 mm	7 mm	7 mm
1.Ox-	5 mm	5 mm	5 mm
1.9x-	3.7 mm	3.7 mm	3.7 mm



Notes

- Max input beam Ø recommendation is for diffraction limited operation
- Divergence adjustment allows diverging input beam collimation
- Lockable lens positions
- IBS coated quartz lenses for maximum performance and longevity
- Laser should be turned off while zooming
- Custom wavelengths available