

Variable Beam Expanders



Description

Variable beam expanders are ideal for systems in which different magnifications and precise control of laser beam divergence are required. Altechna offers Galilean type variable beam expanders with high LIDT AR coatings that minimize ghost reflections. Our variable beam expanders allows to separately adjust magnification and divergence. Two main standard products change magnification in the range of 1x-4x and 2x-8x.

Features

- High pointing stability (<1 mrad)
- Individual reports of beam ellipticity, M^2 and pointing stability parameters
- Mounting adapters at the input, output and middle are available on request
- Extended lifetime and LIDT for UV applications

Typical Items

Wavelength, nm	Expansion range	Max input beam diameter*, mm	Housing dimensions, mm	Product ID	
343-355	1x-4x	1X	4.0	Ø41 x 120	VBE-1X-4X-0343-0355-B
		2X	5.5		
		3X	3.0		
		4X	3.0		
	2x-8x	2X	5.0	Ø41 x 145	VBE-2X-8X-0343-0355-B
		3X	5.0		
		4X	4.0		
		5X	3.0		
		6X	2.5		
		7X	2.25		
515-532	1x-4x	1X	4.5	Ø41 x 120	VBE-1X-4X-0515-0532-B
		2X	6.5		
		3X	4.0		
		4X	3.5		
	2x-8x	2X	5.0	Ø41 x 147.5	VBE-2X-8X-0515-0532-B
		3X	5.0		
		4X	4.0		
		5X	3.0		
		6X	2.5		
		7X	2.25		
		8X	2.0		