

Zoom Beam Expanders

- 9.4µm/10.6µm (BXZ series)

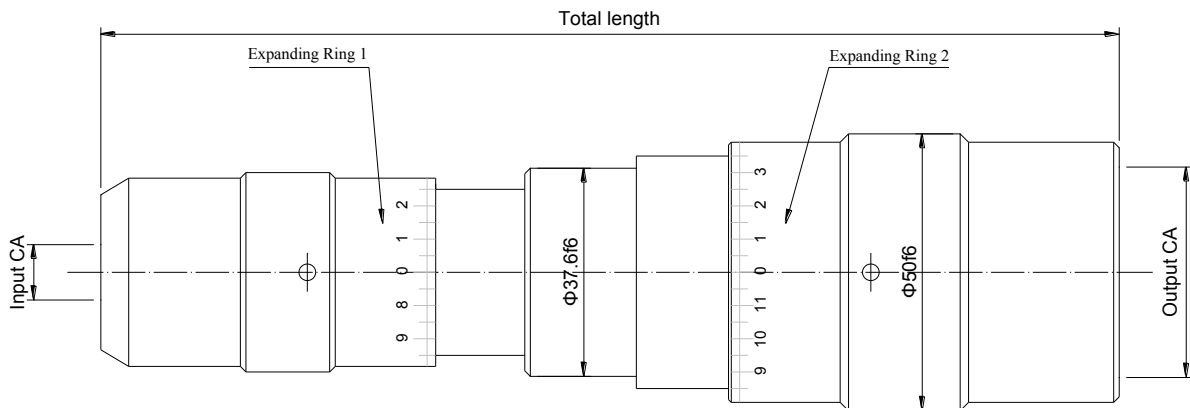
Extensive BXZ series zoom expander includes low power, high power, large aperture, manual zoom and motorized variable zoom beam expanders, covering wavelengths from the UV to the IR.

Beam expanders are useful laser accessories when the beam diameter must be increased. However, their main function is in decreasing the divergence of laser beams which are to be projected over long distances. ZOOM Beam expanders have been designed for use with various magnification.



Specifications
Variable magnifications
Adjustable divergence
Alignment error < 3min.
Damage threshold: 1.5KW/cm ² @10.6µm

Part No.	Magnification	Input CA (mm)	Output CA (mm)	Total Length (mm)
BXZ-10.6-1-4XA	1x-4x	18.0	48.0	133.9
BXZ-10.6-2-6X	2x-6x	16.0	96.0	205.8-212.4
BXZ-10.6-2-6XA	2x-6x	18.0	28.0	205.1-213.0
BXZ-10.6-2-8X	2x-8x	10.0	36.0	168.0-172.0
BXZ-9.4-0.5-3X	0.5x-3x	23.0	38.0	137.7
BXZ-9.4-2-8X	2x-8x	10.0	36.0	168.0-172.0



-1550nm, 1064nm,800nm,532nm,355nm,266nm (BXZ series)

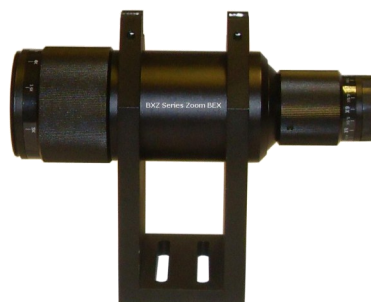
BXZ series zoom beam expander is specially designed to cater for the various variable magnification. It consists of adjustable divergence. These beam expanders are developed with wavelength from 266nm-1550nm.

Specifications

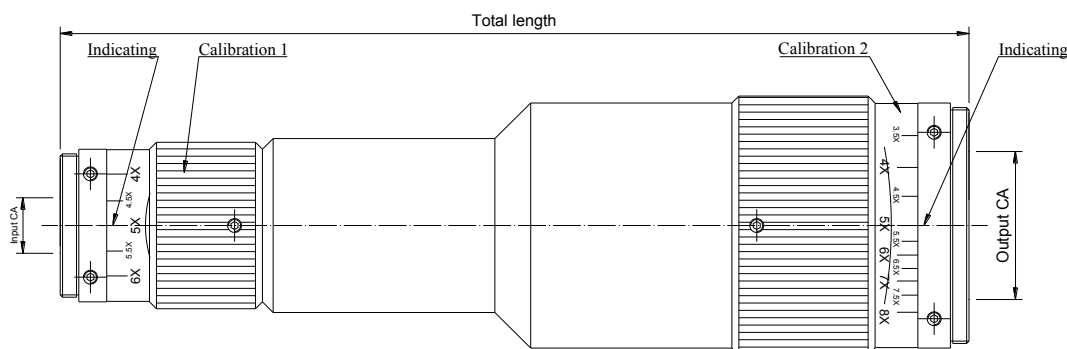
Variable magnifications

Adjustable divergence

Alignment error < 3min.



Part No.	Wavelength (nm)	Magnification	Input CA (mm)	Output CA (mm)	Total Length (mm)	Remark
BXZ-1550-1-4X	1550	1x-4x	14.0	28.0	126.8	Fused Silicon
BXZ-1064-1-3X	1064	1x-3x	10.0	20.0	102.9	Fused Silicon
BXZ-1064-1-3X-V	1064	1x-3x	10.0	20.0	116.9	Fused Silicon
BXZ-1064-1-3X-A	1064	1x-3x	20.0	38.0	118.0	Fused Silicon
BXZ-1064-1-8X-Q	1064	1x-8x	12.0	32.0	167.0-202.0	Fused Silicon
BXZ-1064-2-8X	1064	2x-8x	10.0	30.0	142.0-149.0	-
BXZ-1064-2-8X-A	1064	2x-8x	13.0	60.0	162.0-169.0	-
BXZ-800-2-8X	800	2x-8x	10.0	30.0	142.0-149.0	-
BXZ-532-1-3X	532	1x-3x	10.0	20.0	85.0	Fused Silicon
BXZ-532-2-8X	532	2x-8x	10.0	30.0	131.1	-
BXZ-532-2-8X-A	532	2x-8x	11.0	60.0	190.0	-
BXZ-532-2-8X-Q	532	2x-8x	12.0	32.0	186.7	Fused Silicon
BXZ-532-1-8X-Q	532	1x-8x	12.0	32.0	152.9-187.5	Fused Silicon
BXZ-355-2-8X-Q	355	2x-8x	11.0	32.0	183.0	Fused Silicon
BXZ-355-1-8X-Q	355	1x-8x	12.0	32.0	157.0-191.0	Fused Silicon
BXZ-355-2-8X-QA	355	2x-8x	12.0	60.0	200.8	Fused Silicon
BXZ-266-1-8X	266	1x-8x	10.0	30.0	162.0-200.0	Fused Silicon



-Motorized Zoom Beam Expander (BXZ series)

This Motorized Zoom Beam Expander is designed for an alignment of zoom and divergence to facilitate adjustments on the Beam Expander.

It preserved all optical properties of manual zoom expander while offering full motorized adjustment, with expansion range from 1x to 8x.

Motorized Beam Expander consists of two separate lens groups which are moved by two step-motors. Separate electronic control module and software allows user to change the beam expansion of your optical system. The lens groups will move automatically to their pre-set position. Independent movements of the lens groups are also possible to create any desired variation of your laser beam.

Specifications
Variable magnifications
Adjustable divergence
Alignment error < 3 arc minutes
Connecting type: RS 232
Operating voltage of the Controller: 12V

Part No.	Wavelength (nm)	Magnification	Input CA (mm)	Output CA (mm)	Total Length (mm)
BXZ-10.6-2-8X-MOT	10600	2x-8x	10.0	30.0	190.0
BXZ-1064-1-8X-MOT	1064	1x-8x	10.0	32.0	159.0
BXZ-532-1-8x-MOT	532	1x-8x	10.0	32.0	159.0
BXZ-355-1-8X-MOT	355	1x-8x	10.0	32.0	136.0
BXZ-266-1-8X-MOT	266	1x-8x	10.0	32.0	136.0

