Opto Alignment

LAS-Objective Lens Working Distance (WD) Adapters

- Quickly convert standard 90mm WD objective to shorter (down to 13mm) and longer (up to 300mm) WD
- Shorter WD optimized for higher precision vertex height measurement and separation of close surfaces in compact optical assemblies.
- Longer WD tailored for alignment or inspection of lenses deep inside multi-lens assemblies and/or long barrel housings.
- Quick-Attach methodology helps preserve alignment and stability of the LAS calibration
- More economical than replacing entire objective
- Both Visible and Broad-Band IR Lens Adapters available

Designed and Built in the USA

Wavelength:	Green (520 nm)		
Product Label	Mechanical Working Distance (mm)	Depth of Focus (µm)	Numerical Aperture
VIS | Vertex	13	9	0.189
VIS | ROC	33	37	0.095
VIS | 40mm W.D.	37	62	0.073
VIS | 90mm W.D.	88	315	0.036
VIS | 150mm W.D.	144	875	0.019
VIS | 200mm W.D.	195	1789	0.014
VIS | 300mm W.D.	284	4728	0.008

Wavelength:	Red (660 nm)		
Product Label	Mechanical Working Distance (mm)	Depth of Focus (µm)	Numerical Aperture
VIS | Vertex	13	15	0.169
VIS | ROC	33	59	0.084
VIS | 40mm W.D.	38	100	0.065
VIS | 90mm W.D.	88	400	0.032
VIS | 150mm W.D.	145	1413	0.017
VIS | 200mm W.D.	197	2894	0.012
VIS | 300mm W.D.	287	7698	0.007

Wavelength:	SW (1550 nm)		
Product Label	Mechanical Working Distance (mm)	Depth of Focus (µm)	Numerical Aperture
BB | 40mm W.D.	44	208	0.069
BB | 50mm W.D.	53	300	0.057
BB | 90mm W.D.	89	833	0.034
BB | 150mm W.D.	151	3177	0.018
BB | 200mm W.D.	209	7625	0.008

Wavelength:	MW (4050 nm)		
Product Label	Mechanical Working Distance (mm)	Depth of Focus (µm)	Numerical Aperture
BB | 40mm W.D.	45	262	0.099
BB | 50mm W.D.	54	375	0.083
BB | 90mm W.D.	91	1011	0.050
BB | 150mm W.D.	150	3601	0.027
BB | 200mm W.D.	203	8172	0.018

Wavelength:	LW (9150 nm)		
Product Label	Mechanical Working Distance (mm)	Depth of Focus (µm)	Numerical Aperture
BB | 40mm W.D.	59	329	0.133
BB | 50mm W.D.	74	482	0.110
BB | 90mm W.D.	127	1415	0.064
BB | 150mm W.D.	234	6310	0.030
BB | 200mm W.D.	N/A	N/A	N/A