

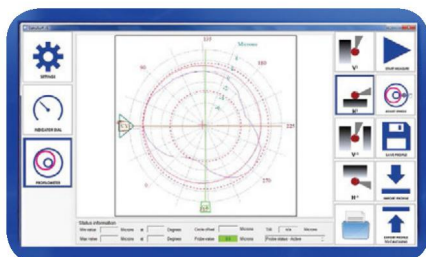
LAS-BT™ NexGen Compact, Bench-Top

INCLUDES:

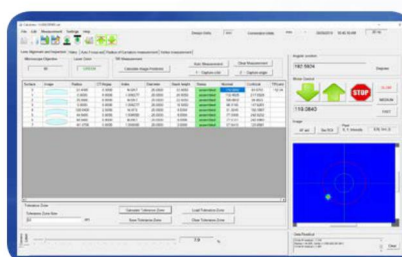
- Green (520nm) laser reflection based Optical Module
- 533mm vertical linear focusing movement with micro-stepping motor and high-precision rotary encoder
- Ø100mm motorized air-bearing spindle (ABS) with vacuum through center
- Ø150mm integrated x/y/tip/tilt stage
- CalcuLens™ Assembly software for measuring alignment errors of single, cemented doublet and cemented triplet lenses
- Measuring accuracy 0.2µm centration and 0.5 arcsec tilt, depending on the lens specs and opto-mechanical design
- Mechanical dial indicator with calibration lens
- Maximum axial load capacity ~132lb (60Kg).
- System weight ~155lb (70Kg.)
- System dimensions 18"x20"x45" (457x508x1143mm)
- System Requirements:
 - Compressed air, pressure: 60PSI (0.004bars)
 - Dry air: 40 Dew point
 - Filter: ±0.005mm
 - Air flow: 4 SF/Min (0.113CM/Min)
 - Electrical rating: 120/240V 50/60Hz @ 1Amp

OPTIONS:

- Red (660nm) Laser
- SWIR (1550nm) or MWIR(4.05µm) Laser
- 700mm vertical focusing travel
- Custom brass chucks
- Self centering three-jaw chuck
- CalcuLens™ Inspection software for measuring in-stack (embedded) lens alignment values
- CalcuSurf™ precision USB Lever Probe with digital gage and real-time profiling application
- Low-coherence interferometer for center thickness and air space measurement



CalcuSurf™ v1.1
Profiling software for LAS™
stations with USB integrated
electronic contact probes



CalcuLens™ v2.8
Alignment Software
for LAS™ Stations

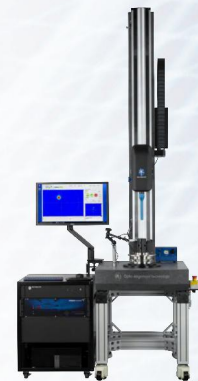
Laser Alignment and Assembly Station™ (LAS™) Options Matrix

	LAS-BT	LAS-P	LAS-UP
Light Source			
Green Laser @ 520nm	●	●	●
Red Laser @ 660nm	○	●	●
SWIR Laser @ 1.5µm	○	○	○
MWIR Laser @ 4.05µm		○	○
LWIR Laser @ 9.50µm		○	○
Detector			
Visible camera (1600 x 1200)	●	●	●
Large-Format Visible Camera (2500x2000)	○	○	○
Infrared camera (640 x 480)	○	○	○
Air-bearing, (vacuum through)			
Air-bearing Ø100mm	●		
Air-bearing Ø150mm		●	
Air-bearing Ø200mm		○	
Air-bearing Ø300mm			●
Air-bearing Ø400mm			○
Air-bearing Ø600mm			○
Work Table Ø150mm	●		
Work Table Ø150 – 200mm		●	
Work Table Ø150 – 250mm		○	
Work Table Ø200 – 300mm		○	
Tip/tilt/x/y stage	●	●	●
Rotary Encoder	●	●	●
Air-bearing motorized	●	○	○
Maximum Load capacity	60Kg	200Kg	500Kg
Measuring Head			
Single Objective For Spheric, Aspheric, Cylindric surfaces	●	●	●
Range of Lens Radii			
+/- 0.5mm to Plano	●	●	●
Measurement Assessment			
Live Orbit Image on Monitor	●	●	●
Software Numerical Data Display	●	●	●
Angle Measurement (accuracy in arc seconds)	0.5	0.5	0.5
Centration Measurement (accuracy in microns)	0.2	0.2	0.2
Measurement Head Linear Positioning			
Automatic PC Controlled (Variable Speed)	●	●	●
Linear Travel	● (533mm) ○ (700mm)	● (1000mm) ○ (1500mm)	● (1000mm) ○ (2000mm)
Measurement Modules			
CalcuLens™ Assembly (measure single lens)	●	●	●
CalcuLens™ Inspection (measure alignment in stack)	○	○	○
In-stack Center Thickness and Air-space (±1µm accuracy)	○	○	○
Granite Base; Granite Column	●	●	●

● Standard
○ Option



LAS-BT



LAS-P



LAS-UP

Opto Alignment - USA

1034-A Van Buren Avenue
Indian Trail, NC 28079-5541

T: 704-893-0399

F: 704-893-0403

sales@optoalignment.com

www.optoalignment.com

SPIE Corporate Member

