



A high performance optical bench, optimized to meet the needs of testing riflescopes, binoculars and spotting scopes for optical systems.



Instrument Parameters

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|---------------------------|--|
| Collimator: | 600 mm EFL 80 mm clear aperture Adjustable focus 20 yards to infinity Focus options (manual or motorized) |
| Motorized video telescope | 45 mm objective lens, focus range +/- 4 diopters High resolution camera |
| Automation | Motorized through-focus FOV pivot Telescope pivot |
| Sources | LED source spectrum 400-780 "White" LED & Photopic sources |

Sample Parameters: Riflescope & Binocular

| | |
|----------------------|--------------|
| Scope aperture: | 2mm to 75 mm |
| Magnification: | 0.5X to 80X |
| Field of view (FOV): | +/- 15 |

Tests Performed

Riflescope & Binocular

- On & off-axis MTF
- 3-bar contrast
- Through-focus MTF
- Magnification & zoom magnification
- Distortion
- Field curvature in diopter
- Reticle Parameters
- Astigmatism
- Parallax
- Field of view (FOV) (objective & subjective)

Binocular (only)

- Binocular Divergence
- Relative Diopter
- Defocus between optical channels
- Image rotation between optical channels