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TECHNICAL DATA SECTION



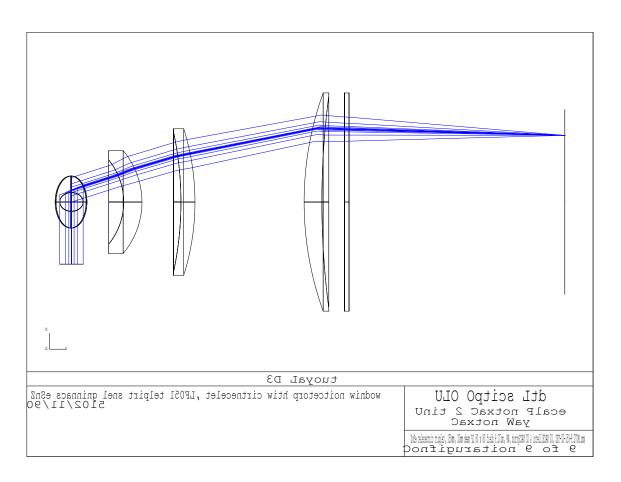
ZST-20-150 TELECENTRIC SCANNING LENS (intelliSCAN 20 & hurrySCAN 20)



SPECIFICATIONS

Optics	Triplet ZnSe lens plus ZnSe protection window
Coatings	AR/AR @ 9.3 or 10.6μm for CO ₂ laser, R < 0.2%
Focal length	150mm
Working distance from window	138.2mm @ 9.3μm, 138.5mm @ 9.6μm, 139.4mm @ 10.6μm
Field size	80 x 80mm
Optical field	+/-16.5 deg

Spot size	With $M^2 = 1$ beam: $90\mu m$ with $20mm 1/e^2$ beam. 119 μm with 15mm $1/e^2$ beam. No variation across the field in either case. Diffraction limited. For $M^2 > 1$, multiply the above values by M^2 .
Maximum telecentric error	2.5deg
Protection window diameter and thickness	140mm diameter, 3.0mm thick.
Lens cell	Black anodised Aluminium with M85 x 1.0 thread.
Protection window mount	Black anodised Aluminium. Window is held in mount by clamp ring. Fits to lens cell by inserting over six screws and twisting to lock in place with one screw.
Overall optical length	154.2mm from edge of first lens to second window surface.
Weight	



Note:

- 1) Distance from Y mirror to edge of first lens is 23.9mm.
- 2) Distance from Y mirror to input end of lens cell is equal to 21.9mm.
- 3) Scanning mirror spacing 25.6mm as per intelliSCAN 20 & hurrySCAN 20.
- 4) Scan heads require the Scanlab 141 adaptor to give M85 thread and optimised mirror locations relative to lens.