

Standard F-Theta Lens DATA SHEET

F-Theta FL163.9 for GR laser

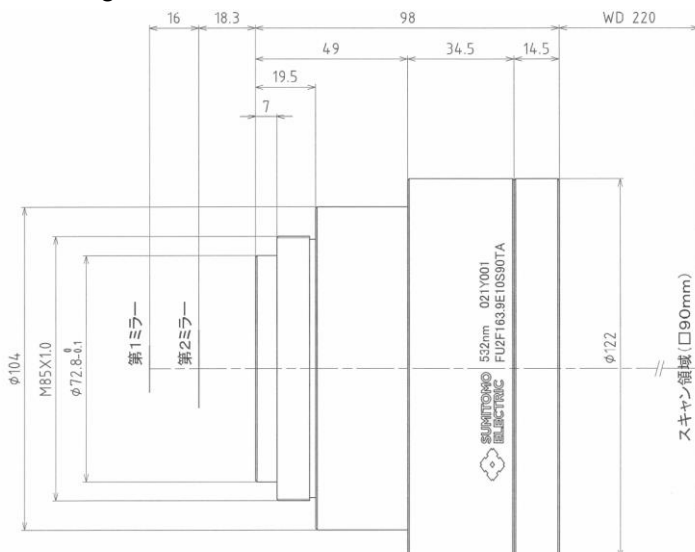
<P/N> FU2F163.9E10S90TA

<Specifications>

Item	Spec
Wavelength	532nm
Effective Focal Length (FL)	163.9mm
Entrance Pupil Diameter (EPD)	φ10mm
Scan Area	90mm Sq.
F Number	16.4 ¹⁾
Distance between X&Y scan mirror	16.0mm
Distance from Y mirror to the input side of lens housing (FWD)	18.3mm
Working Distance(WD)	Approx. 220mm ²⁾
Material	Fused Silica
Spot Diameter	φ15.6~16.2μm ³⁾
Telecentric Error	<= 4.9°
Transmittance	97.0%~ @532nm
Cover Window	Included (Replaceable)
Total Mass	Approx. 1.5kg
Mounting Screw Info.	M85

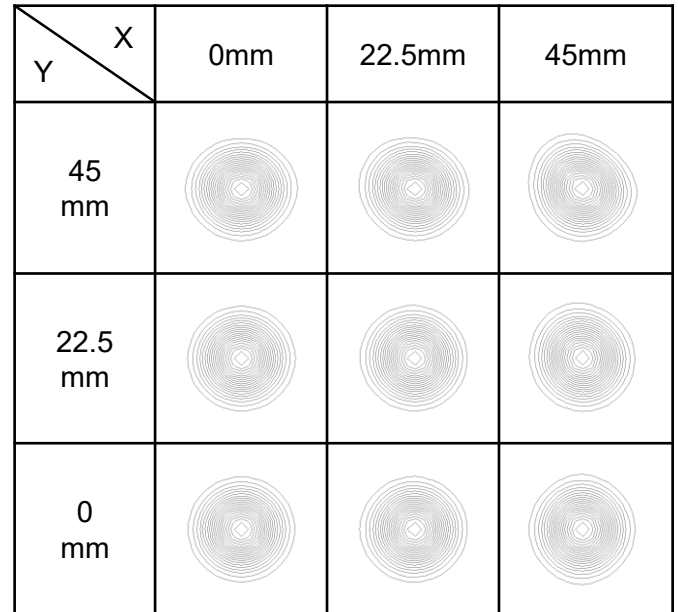
- 1) NA0.03
- 2) Under the condition of the collimated incident beam.
- 3) Simulated value of the 85% encircled energy diameter under condition of 10mm(1/e²) beam diameter single mode laser.

<Drawings>



* Subject to change without notice.

<Point Spread Function Analysis>



20μm

- * Contour maps of intensity distributions on the focal plane.
- * Under condition of φ10mm(1/e²) gaussian incident beam, ignore the outside beam slope of φ10mm gaussian beam.



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