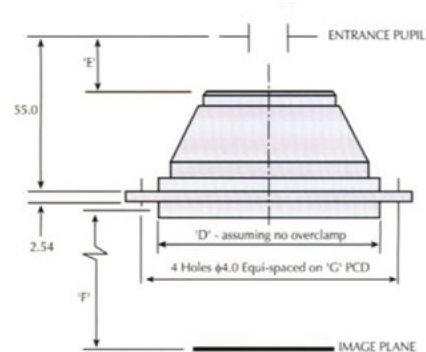


F-THETA LENSES



Typical sketch

Scan lenses, also known as F-Theta lenses, are used in Galvo systems to keep the spot diameter in the working plane as small and as constant as possible.

This is obtained through a system of several lenses.

LASER COMPONENTS has a large selection of F-Theta lenses available that are designed for all common focal lengths and field sizes.

F-THETA LENSES FOR ND:YAG LASERS (1064 nm)

- / Available with and without protective windows.
- / Dual band AR coating for the Vis and Nd:YAG (1064 nm) wavelengths.
- / Lens system is optimized for almost diffraction limited images.

EXCERPT FROM OUR RANGE OF STANDARD LENSES

Effective Focal Length [mm]	Working Distance [mm]	Scan Format [mm]	Scan Angle [± degree]	Focus Diameter (1/e ²) [μm]	Diameter D' [mm]
80	83	56 x 56	28.4	15	81.3
100	118.4	70 x 70	25.0	12	90
160	195	98 x 98	25.0	30	M85 x 1
240	291	168 x 168	28.4	44	100
300	363	212 x 212	28.65	33	120

We also have F-Theta lenses for 532 nm, 355 nm, and 266 nm available upon request.