Fθ lens

For YAG laser

Fθ lens is used when a galvano mirror or polygon mirror is used to scan a laser beam in two dimensions.
The lens distortion characteristic is used to scan the focused spot of the beam scanned by the mirror's constant velocity rotational motion at a uniform speed on the focal plane.

Features

- ◎ For fundamental wave (**1064nm**) and harmonics (**266nm, 355nm, 532nm**) of YAG laser
- ◎ **Good focus spot characteristics** with minimal aberration
- ◎ **Interchangeable window** protects the lens from scattered objects generated from the workpiece

Able to customize other wavelengths, multiple wavelengths, long working distances, wide scan areas, etc.

Use

- ◎ High-speed drilling of printed wiring boards
- ◎ High-speed marking of electronic components
- ◎ High-speed marking of resin parts
- ◎ Laser processing
- ◎ Laser drilling
- ◎ Laser welding of synthetic materials
- ◎ Laser cutting

Optical components, optical systems, lasers

KYOCERA SOC Corporation

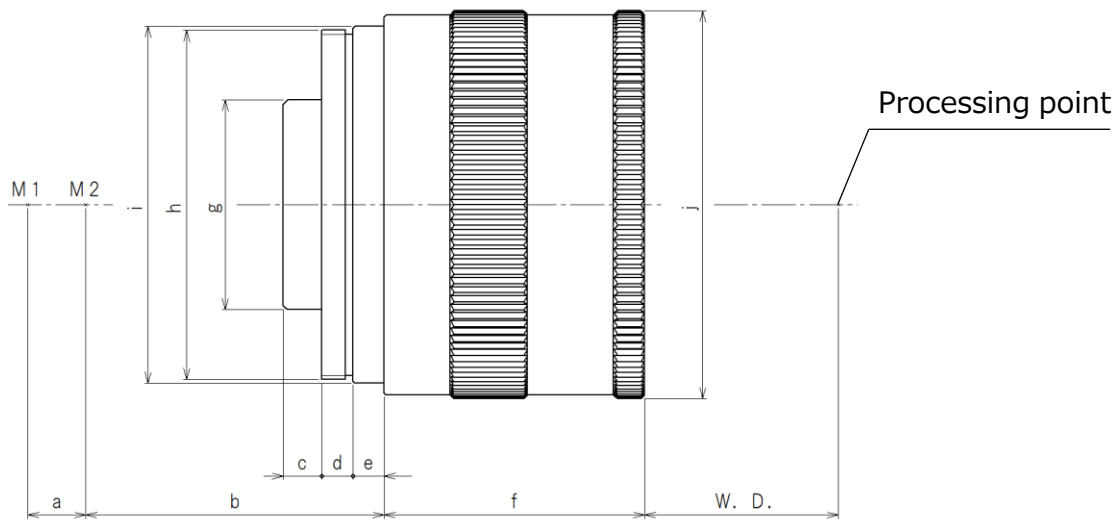
Contact us:
TEL:+81-45-931-6592
URL: https://www.ksoc.co.jp/en/shiryo/
Responsible for sales: Kobayashi and Kimura

For YAG laser
FΘ lens

●Specification

Model		FT250/4-1064	FT150/3-1064AH	FT150/2-532S	FT150/2-355	FT100/2-355T	FT150/2-266S
Wavelength		1064nm	1064nm (632.8nm)	532nm	355nm	355nm	266nm
Focal length		250mm	150mm	150mm	150mm	101mm	150mm
Scanning range		φ150mm	φ120mm	φ72mm	φ72mm	φ56mm	φ72mm
Incident beam dia.		φ12mm	φ12mm	φ12mm	φ12mm	φ10mm	φ12mm
Focus spot dia. ($1/e^2$)		φ40um	φ24um	φ12um	φ8um	φ7um	φ6um
fθ distortion(Max)		≦0.10%	≦0.04%	≦0.04%	≦0.02%	≦0.03%	≦0.04%
Transmittance		≧96%	≧90%	≧94%	≧92%	≧90%	≧92%
Telecentric		—	—	—	—	○	—
Window model No.		C60-1064	C84-1064	C56-532	C62-355	C81-355	C66-266
Size (mm)	WD	301	145	168	147	103.5	146
	a	20	25	25	25	20	25
	b	35					
	c	8.5	12.2	3.5	5	10	7
	d	6					
	e	6					
	f	17	83	41.5	60.8	67.3	63
	g	φ53	φ65/φ88.5	φ58	φ48	φ54	φ58
	h	M60xP1.0	M90xP1.0	M60xP1.0	M60xP1.0	M90xP1.0	M60xP1.0
	i	φ62	φ92	φ62	Φ62	φ92	φ62
	j	φ68	φ102	φ70	φ80	φ100	φ78

●Dimensions



Optical components, optical systems, lasers

KYOCERA

KYOCERA SOC Corporation

Contact us:
TEL:+81-45-931-6592
URL: https://www.ksoc.co.jp/en/shiryo/
Responsible for sales: Kobayashi and Kimura