## Fθ lens

### For YAG laser

 $F\theta$  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.

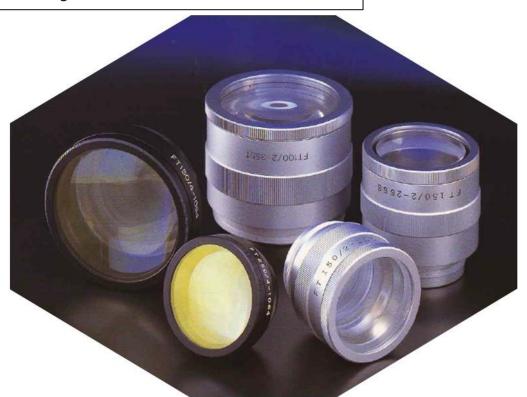
#### **Features**

- 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
- O 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



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URL: <a href="https://www.ksoc.co.jp/en/shiryo/">https://www.ksoc.co.jp/en/shiryo/</a> Responsible for sales: Kobayashi and Kimura

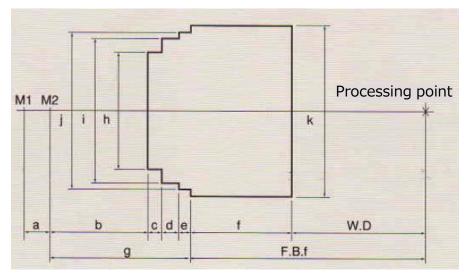


# For YAG laser F0 lens

#### Specification

•	Model	FT250/4-1064	FT150/4-1064	FT150/2-532S	FT150/2-355	FT100/2-355T	FT150/2-266S
Wavelength		1064nm	1064nm	532nm	355nm	355nm	266nm
Focal length		250mm	150mm	150mm	150mm	101mm	150mm
Scanning range		φ140mm	φ140mm	φ72mm	φ72mm	φ56mm	φ72mm
Incident beam dia.		φ12mm	φ12mm	φ12mm	φ12mm	φ10mm	φ12mm
Focus spot dia. (1/e²)		φ40um	φ24um	φ12um	φ8um	φ7um	φ6um
fθ distortion(Max)		0.10%	0.10%	0.04%	0.02%	0.02%	0.04%
Transmittance		96%	96%	94%	92%	90%	90%
Telecentric		_	_	_	_	0	_
Window model No.		C60-1064	C90-1064	C56-532	C62-355	C81-355	C66-266
Size(mm)	WD	301	174.7	168	147	108	145.9
	F.B.f	315.6	199	209.5	212	170.3	209.4
	a	20	20	25	25	20	25
	b	15	12.8	19.5	16	13	16
	С	8.5	5.2	3,5	7	10	7
	d	6	6	6	6	6	6
	е	6	6	6	6	6	6
	f	17.5	24.3	31.5	65	67.3	63.5
	g	35	35	35	35	35	35
	h	53	64	48	48	54	58
	i	M60xP1.0	M90xP1.0	M60xP1.0	M60xP1.0	M90xP1.0	M60xP1.0
	j	φ62	φ92	φ62	φ62	φ92	φ62
	k	φ68	φ100	φ70	φ80	φ100	φ78

#### Dimensions



The contents of this document are subject to change without notice. Contact us for further information.

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