

Nikon Rayfact

Tochigi Nikon Industrial Lens

TOCHIGI NIKON CORPORATION
Marketing Sec.
Industrial Equipment Dept.

▪ Features

- Low magnification line-up suitable for large-sized line sensor cameras.
- Image size ϕ 62mm to meet your use of large-sized high resolution line sensor cameras.
- Optical design suitable for line sensor cameras : $7 \mu\text{m} \times 8\text{K}$ / $5 \mu\text{m} \times 12\text{K}$.
Also, available for $3.5 \mu\text{m} \times 16\text{K}$ line sensor cameras.
- 3 models at the magnification range (0.1x – 0.4x) for your best choice.
- High resolution and uniformity from the center to the edge of the lens.
- Best performance at a diaphragm opening position.
- Minimal distortion (below 0.1% at the standard magnification).
- Rotating mount mechanism enables you to align the lens at the best resolution direction.
- Lockable screws to fix an aperture required.
- RoHS compliant.

▪ Applications

- Suitable for high resolution cameras (CCD pixel size : $7 \mu\text{m}$ / $5 \mu\text{m}$)
- FPD inspection.
- Fine pattern inspection – e.g. PCB.
- Printed materials inspection.
- Fine pattern inspection and detecting defects – e.g. TAB, sheets.

NikonRayfactVW0.14x



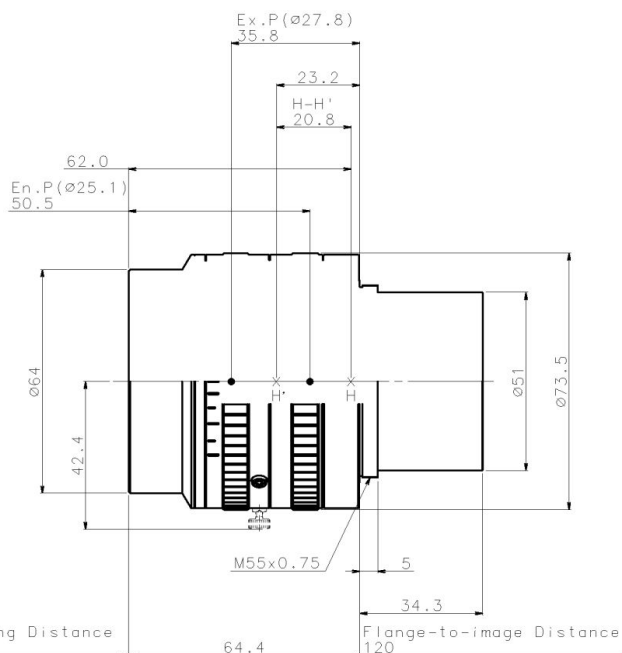
Specifications

Model	L-OFM014012MN
Focal length	125.5mm
F Number (∞)	F4.9
NA (Diaphragm open)	0.013
Magnification scale	-0.14x
Magnification range	-0.1x~-0.18x
Reference wavelength	546.07nm(e-line)
Wavelength range	400~700nm
Picture angle	24.7° ※1
Image size	62mm ϕ
Object Size	442.9mm ϕ ※1
Distortion	0.0% ※1
Relative illumination	90.9% ※1
Aperture scale	4.9,5,6,8,11 (With a click stop) ※2
Object-to-image distance	1144.6mm ※1
Working distance	960.2mm ※1
Mount size	M55(P=0.75)
Flange-to-image distance	120.0mm ※1
Back focus	87.9mm
Attachment size	M55(P=0.75)
Diameter/length	73.5mm ϕ × 98.7mm ※3
Weight	Approximately 740g

※1 Value at the standard magnification.

※2 Diaphragm scale indicated with indexes. No numeric indication.

※3 Dimension excludes protrusion of screws or other convex part.



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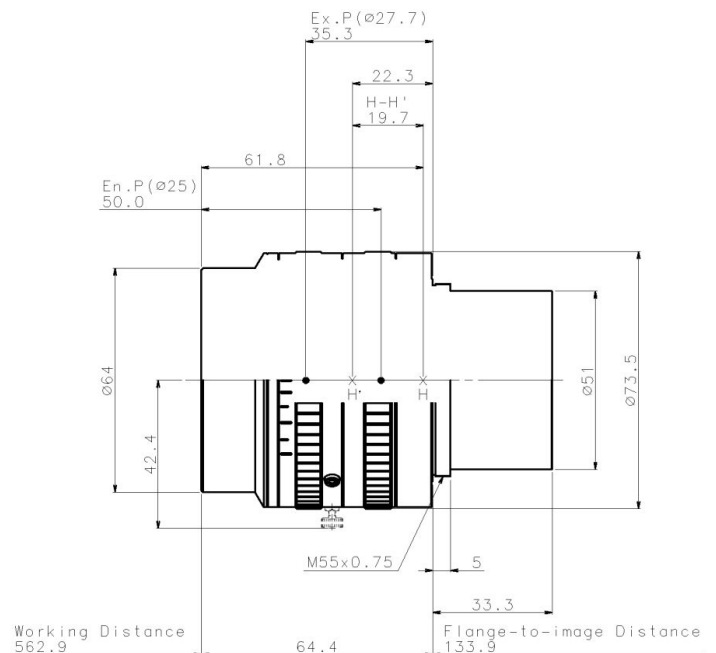
Specifications

Model	L-OFM025020MN
Focal length	124.9mm
F Number (∞)	F4.9
NA (Diaphragm open)	0.02
Magnification scale	-0.25x
Magnification range	-0.18x~-0.28x
Reference wavelength	546.07nm(e-line)
Wavelength range	400~700nm
Picture angle	22.9° ※1
Image size	62mm ϕ
Object Size	248.0mm ϕ ※1
Distortion	-0.1% ※1
Relative illumination	93.4% ※1
Aperture scale	4.9,5,6,8,11 (With a click stop) ※2
Object-to-image distance	761.1mm ※1
Working distance	562.9mm ※1
Mount size	M55(P=0.75)
Flange-to-image distance	133.9mm ※1
Back focus	102.7mm
Attachment size	M55(P=0.75)
Diameter/length	73.5mm ϕ × 97.7mm ※3
Weight	Approximately 740g

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※2 Diaphragm scale indicated with indexes. No numeric indication.

※3 Dimension excludes protrusion of screws or other convex part.



•Specifications unless any specific instructions are stated is at the standard magnification.

•Specifications are subject to change without prior notice.



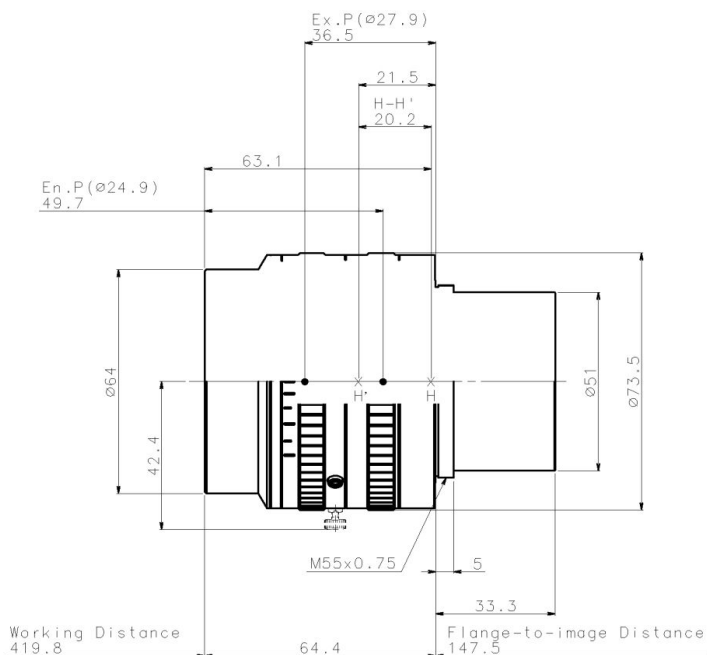
Specifications

Model	L-OFM035026MN
Focal length	125.2mm
F Number (∞)	F4.9
NA (Diaphragm open)	0.026
Magnification scale	-0.35x
Magnification range	-0.28x~-0.4x
Reference wavelength	546.07nm(e-line)
Wavelength range	400~700nm
Picture angle	21.3° ※1
Image size	62mm ϕ
Object Size	177.1mm ϕ ※1
Distortion	-0.1% ※1
Relative illumination	94.3% ※1
Aperture scale	4.9,5,6,8,11 (With a click stop) ※2
Object-to-image distance	631.7mm ※1
Working distance	419.8mm ※1
Mount size	M55(P=0.75)
Flange-to-image distance	147.5mm ※1
Back focus	115.6mm
Attachment size	M55(P=0.75)
Diameter/length	73.5mm ϕ × 97.7mm ※3
Weight	Approximately 740g

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※3 Dimension excludes protrusion of screws or other convex part.



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