

▪ Features

- Rayfact 2x and 1x : successor models to Printing Nikkor Lenses.
- No lens aberration (0.0%) at the standard magnification ratio.
- Guarantee high resolution and uniformity from the center to the edge of the lens.
- Anti-reflection coating applied to minimize lens surface reflection.
- Rayfact 2x and 1x : Apochromatic lens with the best chromatic aberration correction in the wide-range of 400 – 800 nm.
- Rayfact 7x and 3.5x : Image size ϕ 64mm has a high relative illumination.
- Rayfact 7x : Bilateral telecentric lenses.
- RoHS compliant.

▪ Applications

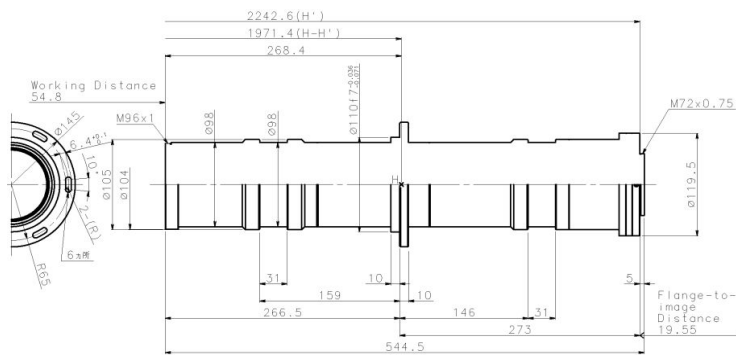
- Inspection by high resolution line sensor cameras.
- FPD inspection.
- Fine pattern inspection – e.g. PCB.
- Printed materials inspection.
- Reproduction of color and monochrome film in the same size or scaling and data fetch.
- Scaling copy of 35mm or equivalent ones and a half sized slides.
and black and white movie film etc and taking in the data.
- 35mm format, enlargement of harp format sliding and reduction copy.

Nikon Ravfact 7x(Direct pipe type)



Specifications

Model	OFM70350HN-TS
Focal length	Both sides telecentric
NA(object space)	NA:0.35[Effectiveness focal ratio conversion: 10 (at Standard magnification)]
Magnification scale	-7.0x
Reference wavelength	546.07nm(E-line)
Wavelength range	510~590nm
Picture angle	—
Image size	64mm ϕ
Object size	9.1mm ϕ
Distortion	0.0%(at 64mm ϕ)
Relative illumination	103%(at 64mm ϕ)
Aperture scale	A fixed diaphragm
Object-to-image distance	613.9mm
Working distance	54.8mm
Mount size	M72(P=0.75)
Flange-to-image distance	19.55mm
Back focus	81.17mm
Attachment size	M96(P=1.0)
Diameter/length	145mm ϕ × 544.5mm
Weight	Approximately 6.7kg
An option	—

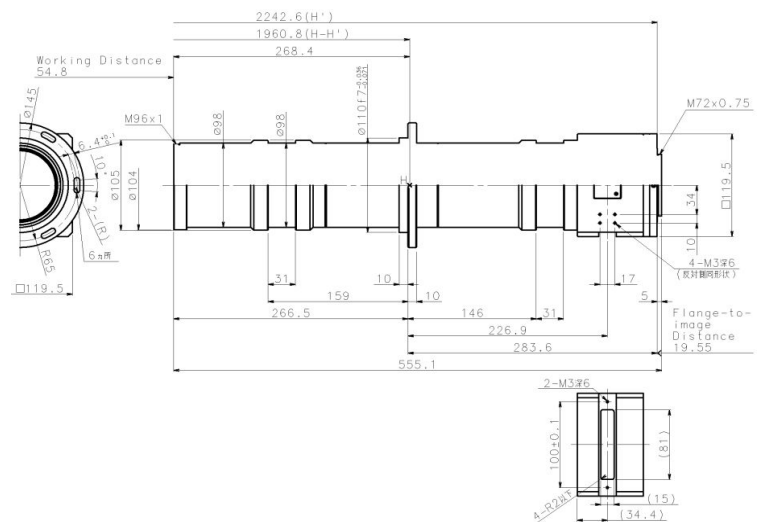


Nikon Rayfact 7x(Coaxial epi-illumination type)



Specifications

Model	OFM70350HN-TP
Focal length	Both sides telecentric
NA(object space)	NA:0.35[Effectiveness focal ratio conversion: 10 (at Standard magnification)]
Magnification scale	-7.0x
Reference wavelength	546.07nm(E-line)
Wavelength range	510~590nm
Picture angle	—
Image size	64mm ϕ
Object size	9.1mm ϕ
Distortion	0.0%(at 64mm ϕ)
Relative illumination	103%(at 64mm ϕ)
Aperture scale	A fixed diaphragm
Object-to-image distance	624.5mm
Working distance	54.8mm
Mount size	M72(P=0.75)
Flange-to-image distance	19.55mm
Back focus	58.75mm
Attachment size	M96(P=1.0)
Diameter/length	119.5mm \square × 555.1mm
Weight	Approximately 9.5kg
An option	—



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- Specifications are subject to change without prior notice.

NikonRayfact3.5x



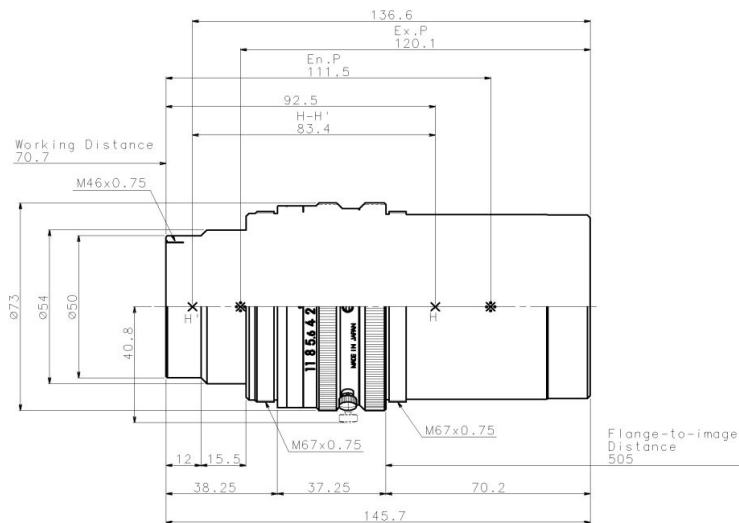
Specifications

Model	OFM35162MN
Focal length	127.0mm
NA(object space)	10.8(at Standard magnification)
Magnification scale	-3.5x
Reference wavelength	546.07nm(E-line)
Wavelength range	400~700nm
Picture angle	5.7°
Image size	60mm ϕ
Object size	18.3mm ϕ
Distortion	0.0%(at 64mm ϕ)
Relative illumination	98%(at 64mm ϕ)
Aperture scale	2.4,4,5,6,8,11 (9° interval ※1, 1/2 dials with a finger stop) ※2
Object-to-image distance	651.3mm
Working distance	70.8mm
Mount size	M67(P=0.75)
Flange-to-image distance	505.0mm
Back focus	437.9mm
Attachment size	M46(P=0.75)
Diameter/length	73mm ϕ × 145.7mm ※3
Weight	Approximately 1.1Kg
An option	A coaxial falling morphism tube

※1 Aperture scale at 2.8 : Only lock-in position available. No numeric indication.

※2 Lockable setting mechanism.

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



NikonRayfact2.35x (Build-to-order product)



Specifications

Model	OFM24012MN
Focal length	95.1mm
NA(object space)	9.5(at Standard magnification)
Magnification scale	-2.35x
Reference wavelength	546.07nm(E-line)
Wavelength range	400~800nm
Picture angle	11.4°
Image size	60mm ϕ
Object size	27.24mm ϕ
Distortion	0.0%(at 64mm ϕ)
Relative illumination	78.9%(at 64mm ϕ)
Aperture scale	2.8,4,5,6,8,11 (18° interval, 1/2 dials with a finger stop)
Object-to-image distance	424.2mm
Working distance	79.5mm
Mount size	M45(P=0.75)
Flange-to-image distance	254.5mm
Back focus	255.4mm
Attachment size	—
Diameter/length	57mm ϕ × 94.2mm
Weight	Approximately 420g

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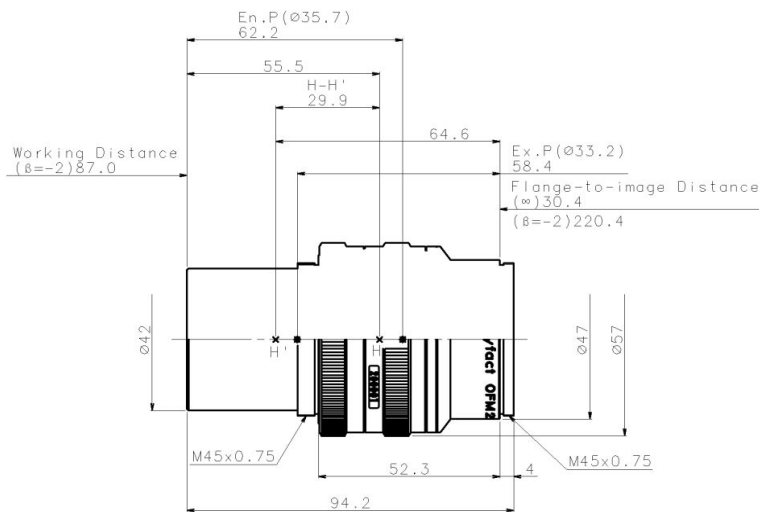


Specifications

Model	OFM20119MN	
	In use -2.0x	In use -0.5x
Focal length	95.0mm	
NA (object space)	8.4 (at Standard magnification)	4.2 (at Standard magnification)
Magnification scale	-2.0x	-0.5x
Reference wavelength	546.07nm(E-line)	
Wavelength range	400~800nm	
Picture angle	12.8°	12.8°
Image size	64mm φ	32mm φ
Original size	32mm φ	64mm φ
Distortion	0.0% (at 64mm φ)	0.0% (at 32mm φ)
Relative illumination	Over 70% (at 64mm φ)	Over 70% (at 32mm φ)
Aperture scale	2.8,4,5,6,8,11 (18° interval, 1/2 dials with a finger stop)	
Object-to-image distance	397.6mm	
Working distance	87.0mm	212.4mm
Mount size	M45(P=0.75)	
Flange-to-image distance	220.4mm	124.9mm
Back focus	222.0mm	90.3mm
Attachment size	—	M43(P=0.5)
Diameter/length	57mm φ × 98.2mm	
Weight	Approximately 360g	

Specifications

Model	L-OFM18113MN
Focal length	100.2mm
NA (object space)	7.7 (at Standard magnification)
Magnification scale	-1.75x
Reference wavelength	546.07nm(E-line)
Wavelength range	400~800nm
Picture angle	17.8°
Image size	64mm φ
Original size	36.57mm φ
Distortion	0.1% (at 64mm φ)
Relative illumination	65.2% (at 64mm φ)
Aperture scale	2.8,4,5,6,8,11 (18° interval, 1/2 dials with a finger stop)
Object-to-image distance	392.1mm
Working distance	92.6mm
Mount size	M45(P=0.75)
Flange-to-image distance	203.2mm
Back focus	200.4mm
Attachment size	—
Diameter/length	57mm φ × 100.3mm
Weight	Approximately 350g

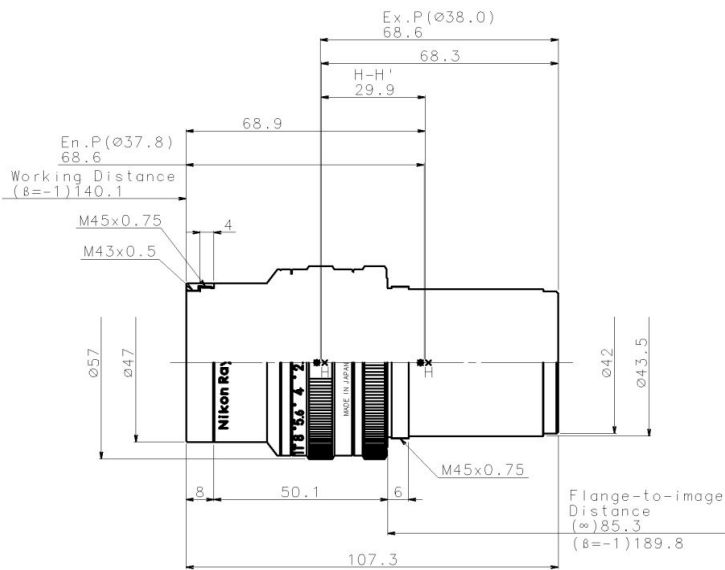


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Specifications

Model	OFM10090MN
Focal length	104.5mm
NA(object space)	5.5 (at Standard magnification)
Magnification scale	-1.0x
Reference wavelength	546.07nm(E-Line)
Wavelength range	400~800nm
Picture angle	16.3°
Image size	60mm ϕ
Object size	60mm ϕ
Distortion	0.0%(at 60mm ϕ)
Relative illumination	62%(at 60mm ϕ)
Aperture scale	2.8,4,5,6,8,11 (18° interval, 1/2 dials with a finger stop)
Object-to-image distance	388.1mm
Working distance	140.1mm
Mount size	M45(P=0.75)
Flange-to-image distance	189.8mm
Back focus	147.7mm
Attachment size	M43(P=0.5)
Diameter/length	57mm ϕ × 107.3mm
Weight	Approximately 400g



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