

Nikon Rayfact 7X



High Resolution High Performance Line Sensor Lens Solution From Nikon

Developed specifically for high resolution CCD (line sensor) cameras, all Rayfact Machine Vision Lenses are distortion free (0.0%) at standard magnification. High resolution and the uniformity of efficiency are guaranteed from the center to the periphery. No vignetting (0%). Multi-layers of anti-glare film are applied to prevent the lens surface reflection. Eco-friendly glass is used in all lenses except for the 3.5X model, in which the non eco-friendly glass is partially used. The distance between the object and the lens is guaranteed for a wide range of controls including illumination intensity.



**OFM70350HN-TS:
Straight Type**



**OFM70350HN-TP:
Episcopic Type**

Rayfact 7X is ideal for large resolution line sensors, and features:

- Bilateral telecentric optics
- Distortion minimized at standard magnification and improved uniformity from the center to the periphery.
- Diameter distortion of 0% (at NAO35)
- At the image circle of $\phi 64\text{mm}$, this lens can support large line sensors
- High peripheral illumination (103% at the image circle of $\phi 64\text{mm}$)

	OFM70350HN-TS Straight Type	OFM70350HN-TP Episcopic Type
Focal Length	Bilateral Telecentric	
Effective Focal Ratio	NA:0.35[Effectiveness focal ratio conversion: 10 (at standard magnification)	
Standard Magnification	X -7.0	
Standard Wavelength Range	546.07nm(E-line)	
Correction Wavelength Range	510nm ~ 590nm	
Picture Angle	-	
Vignetting	0% (at NA 0.35)	
Image Size	64mm ϕ *1	
Original Size	9.1mm ϕ	
Distortion	0.0% (at 64mm ϕ)	
Neighboring Illuminatio Ratio	More than 103% (at 64mm ϕ)	
Diaphragm Dial	Afixed diaphragm	
Overall Working Distance	613.9mm	624.5mm
Working Distance	54.8mm	
Mount Size	M72mm P=0.75mm	
Flange Focal Distance	19.55mm *2	
Back Focus	81.17mm	58.75mm
Attachment Size	M96mm P=1mm	
Diameter/length	145mm ϕ x544.5mm	119.5mm \square x555.1mm
Weight	Approximately 6.7Kg =14.77lbs	Approximately 9.5kg=20.94lbs
Options	-	