



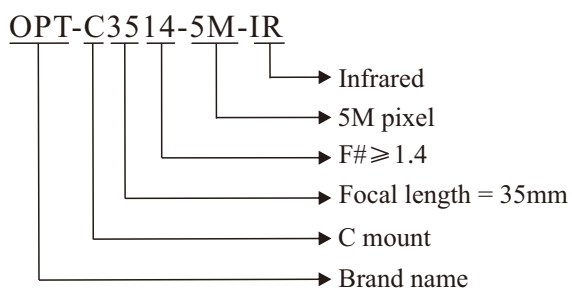
IR Fixed Focal Length Lenses



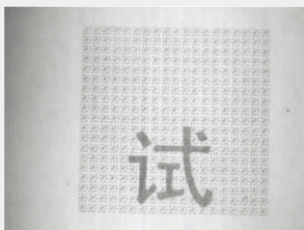
Product Features

- 1** Compatible for IR spectrum
Developed for infrared project, used for 800-1050nm IR spectrum
- 2** Professional design and stable quality
Using high standard optical technology to realized perfect optical performance
- 3** High resolution
Compatible to most 5MP industrial cameras, suitable for cameras with pixel size $\geq 3.45\mu\text{m}$, max compatible to 2/3" sensor, resolution up to 140lp/mm
- 4** Low distortion
Total distortion $< 0.1\%$
- 5** High uniformity

Selection Guide



Application Examples



Security QR code recognition



Metal existing detection



Distance measurement of metal parts

Figure 10 is a line graph showing the Modulus of the OTF (Y-axis, ranging from 0.1 to 1.0) versus Spatial Frequency in Cycles per mm (X-axis, ranging from 0 to 125). The graph displays multiple curves representing different spatial frequencies (TS) and defocus values (DEG). The curves generally show a decrease in the Modulus of the OTF as spatial frequency increases. The curves are labeled with their respective TS and DEG values: TS 0.00 DEG, TS 2.70 DEG, TS 4.50 DEG, TS 4.30 DEG, TS 7.20 DEG, TS 8.10 DEG, TS 9.00 DEG, TS 4.30 DEG, TS 6.30 DEG, TS 7.20 DEG, TS 8.10 DEG, and TS 9.00 DEG. The curves for TS 0.00 DEG and TS 2.70 DEG show the highest Modulus of the OTF, while the curves for TS 9.00 DEG show the lowest Modulus of the OTF.

Figure 10 is a line graph showing the Modulus of the OTF (Y-axis, ranging from 0.1 to 1.0) versus Spatial Frequency in Cycles per MM (X-axis, ranging from 0 to 125). The graph displays six curves corresponding to different spatial sampling rates (TS) in mm:

- TS 0.00 MM (Blue line)
- TS 1.65 MM (Cyan line)
- TS 2.75 MM (Magenta line)
- TS 3.85 MM (Red line)
- TS 4.67 MM (Green line)
- TS 5.50 MM (Light Blue line)

The curves show that the Modulus of the OTF decreases as the spatial frequency increases. The curves for higher TS values (e.g., 5.50 MM) generally show a lower Modulus of the OTF compared to the curves for lower TS values (e.g., 0.00 MM) across the entire range of spatial frequencies.

No.	Model	Focal length (mm)	Aperture range	WD (mm)	Filter thread	Distortion	Weight (kg)	Matching sensor format	FOV angle (across - horizontal - vertical)		
1	OPT-C3514-5M-IR	35	F1.4-F16	390-∞	M30.5*P0.5	<0.1%	0.13	1/3"	10°	8°	6°
								1/2"	13.2°	10.6°	8°
								1/1.8"	14.8°	11.9°	9°
								2/3"	18°	14.4°	10.8°
2	OPT-C5025-5M-IR	50	F2.5-F22	570-∞	M30.5*P0.5	<0.1%	0.11	1/3"	6.9°	5.5°	4.1°
								1/2"	9.2°	7.3°	5.5°
								1/1.8"	10.3°	8.2°	6.2°
								2/3"	12.5°	10°	7.6°

[illegible]