

Coloretto Series Line Scan Lenses



Product Features

- **High standard optical design**
Achromatic design of wide spectrum range from 400 to 700nm; compatible with the line scan camera of 7μm pixel size.
 - **Low distortion**
Total distortion < 0.60%^[1].
 - **Wide image circle range**
Ø 30mm - Ø 82mm.
 - **Magnification**
Range: 0.01X - 0.33X; suitable for various industrial applications.
- [1] Distortion at primary magnification.

Selection Guide

OPT-VCT60/4.0-0.17X

- 0.17X primary magnification
- F#: 4.0
- 60mm±5% focal length
- Coloretto series line scan lenses
- V-Mount
- Brand name

Resolution Comparison

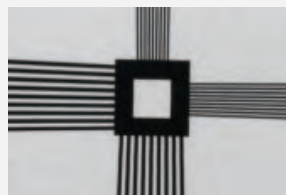


Image taken via Coloretto

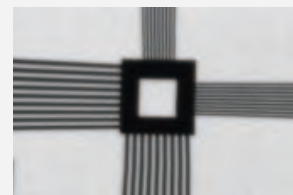
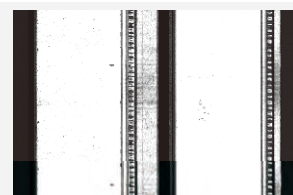


Image taken via other lens

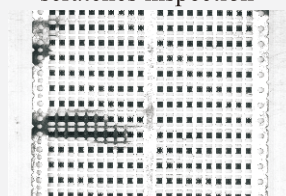
Application Cases



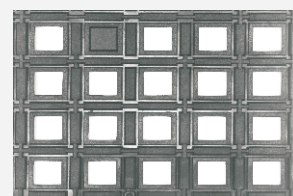
Mobile phone screen scratches inspection



Plug surface inspection



Burr inspection for LED chips



Locating objects in a tray

Model Table

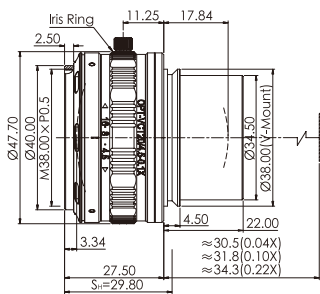
No.	Model	Focal length (mm)	Aperture range	Image circle Ø (mm)	Mount	Weight (kg)	Distortion	Mag. (x)	WD (mm)	Flange focal distance (mm)	Object to image distance (mm)
1	OPT-VCT20/4.5-0.10X	21	F4.5-F16	30	V38	0.14	0.20%	0.04X	510.7	30.5	568.7
							0.60%	0.10X	206.2	31.8	265.5
							0.95%	0.22X	90.7	34.3	152.5
							0.40%	0.04X	723.0	30.9	777.9
2	OPT-VCT28/2.8-0.10X	29	F2.8-F16	30	V38	0.13	0.10%	0.10X	288.0	32.7	344.6
							0.50%	0.33X	85.9	39.2	149.1
							0.25%	0.04X	880	12	943.2
							0.20%	0.10X	355	12	420.3
3	OPT-MCT35/4.5-0.10X	35	F4.5-F16	30	M42	0.15	0.30%	0.16X	224	12	291.4

Model Table

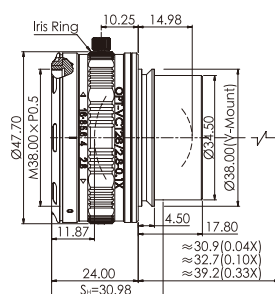
No.	Model	Focal length (mm)	Aperture range	Image circle Ø (mm)	Mount	Weight (kg)	Distortion	Mag. (x)	WD (mm)	Flange focal distance (mm)	Object to image distance (mm)
4	OPT-MCT40/4.5-0.08X	40	F4.5-F22	60	M42/M58 M72	0.53	0.35%	0.01X	4146.4	46.5	4250.3
							0.22%	0.08X	522.4	46.5	629.3
							1.60%	0.26X	162.7	46.5	277
5	OPT-VCT50/2.8-0.17X	50	F2.8-F16	44	V38	0.15	0.31%	0.08X	632	38.5	704.1
							0.08%	0.17X	328.9	42.6	405.1
							0.29%	0.33X	183.8	50.2	267.6
6	OPT-VCT60/4.0-0.17X	61.5	F4.0-F32	63	V38	0.14	0.30%	0.04X	1528	54.4	1613.9
							0.05%	0.17X	394.3	62.3	488.1
							0.25%	0.33X	217	72.3	320.8
7	OPT-VCT60/5.6-0.17X	60	F5.6-F22	63	V38	0.14	0.60%	0.05X	1232	49.8	1312.2
							0.16%	0.17X	385.5	56.9	473.9
							0.18%	0.31X	226.2	65.3	322.9
8	OPT-VCT80-5.6-0.1X	80	F5.6-F45	63	V38	0.14	0.14%	0.04X	2048.85	70.67	2149.52
							0.09%	0.10X	851.35	75.47	956.82
							0.35%	0.25X	371.35	87.37	488.72
9	OPT-VCT100/5.6-0.17X	100	F5.6-F45	82	V38	0.14	0.05%	0.08X	1269.1	100.2	1400.8
							0.05%	0.17X	672.1	108.5	812.1
							0.13%	0.33X	372.1	125.2	528.8

Dimensions (mm)

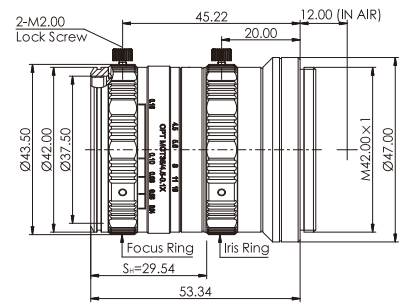
1.OPT-VCT20/4.5-0.10X



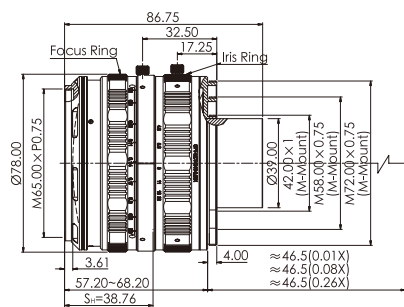
2.OPT-VCT28/2.8-0.10X



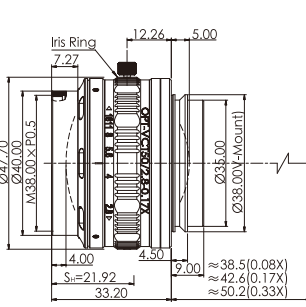
3.OPT-MCT35/4.5-0.10X



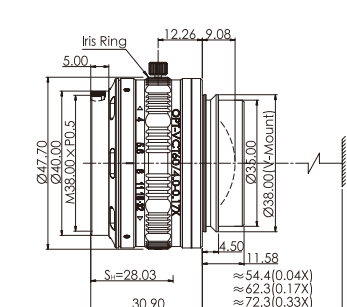
4.OPT-MCT40/4.5-0.08X



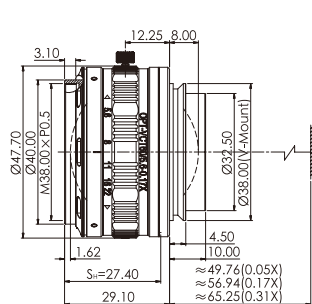
5.OPT-VCT50/2.8-0.17X



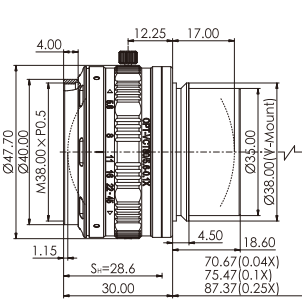
6.OPT-VCT60/4.0-0.17X



7.OPT-VCT60/5.6-0.17X



8.OPT-VCT80-5.6-0.1X



9.OPT-VCT100/5.6-0.17X

