

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 < 0.1%^[1]
- **Wide image circle range**
 Ø 30mm - Ø 82mm
- **Magnification**
 Range: 0.04x - 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/M-Mount
- Brand name

Resolution Comparison

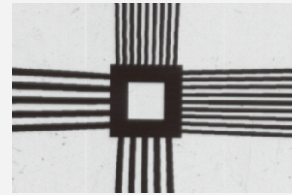


Image taken via Coloretto

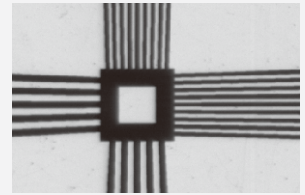
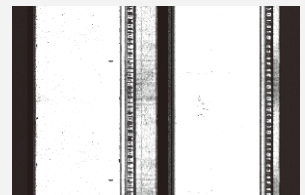


Image taken via other lens

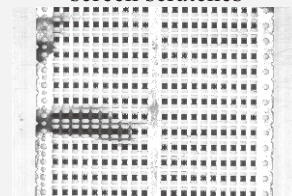
Application Examples



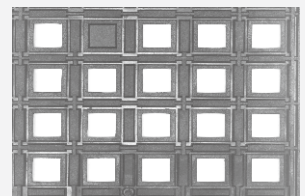
Inspection for mobile phone screen scratches



Plug surface inspection



Burr inspection for LED chips



Locating objects in a tray

Model Table

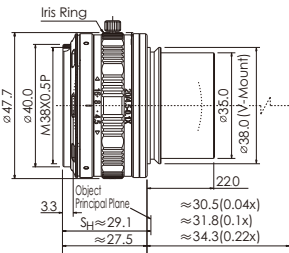
No.	Model	Focal length (mm)	Aperture range	Image circle Ø (mm)	Mount	Weight (kg)	Distortion (%)	Mag. (x)	WD (mm)	Flange focal distance (mm)	Object to image distance (mm)
1	OPT-VCT20/4.5-0.10X	21	F4.5-F16	30	V38	0.14	0.20	0.04	510.7	30.5	568.7
							0.60	0.10	206.2	31.8	265.5
							0.95	0.22	90.7	34.3	152.5
2	OPT-VCT28/2.8-0.10X	28	F2.8-F16	30	V38	0.13	0.40	0.04	737	30.9	784.1
							0.10	0.10	304	32.7	352.7
							0.50	0.33	93	39.2	148.4
3	OPT-VCT35/2.8-0.10X	35	F2.8-F16	30	V38	0.12	0.50	0.04	891	33.0	941.7
							0.07	0.10	33.0	35.1	416.5
							0.90	0.33	126	43.1	186.6
4	OPT-MCT40/4.5-0.08X	40	F4.5-F22	60	M42/M58 M72/F	0.15	0.35	0.01	4146.4	46.5	4250.3
							0.22	0.08	522.4	46.5	629.3
							1.60	0.26	162.7	46.5	277

Model Table

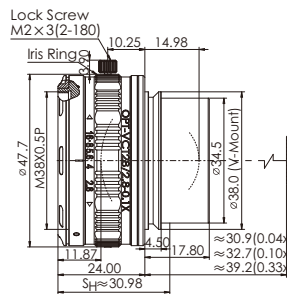
No.	Model	Focal length (mm)	Aperture range	Image circle Ø (mm)	Mount	Weight (kg)	Distortion (%)	Mag. (x)	WD (mm)	Flange focal distance (mm)	Object to image distance (mm)
5	OPT-VCT50/2.8-0.17X	50	F2.8-F16	44	V38	0.15	0.31	0.08	632.0	38.5	704.1
							0.08	0.17	328.9	42.6	405.1
							0.29	0.33	183.8	50.2	267.6
6	OPT-VCT60/4.0-0.17X	61.5	F4.0-F32	63	V38	0.14	0.30	0.04	1528.0	54.4	1613.9
							0.05	0.17	394.3	62.3	488.1
							0.25	0.33	217.0	72.3	320.8
7	OPT-VCT80/4.0-0.17X	80.3	F4.0-F32	80	V38	0.13	0.17	0.08	1057.0	76.8	1164.7
							0.05	0.17	535.7	83.7	650.3
							0.25	0.33	297.0	96.8	424.6
8	OPT-VCT100/5.6-0.17X	100	F5.6-F45	82	V38	0.14	0.05	0.08	1269.1	100.2	1400.8
							0.05	0.17	672.1	108.5	812.1
							0.13	0.33	372.1	125.2	528.8

Dimensions (mm)

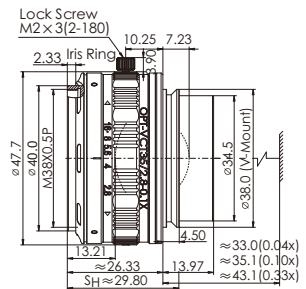
1.OPT-VCT20/4.5-0.10X



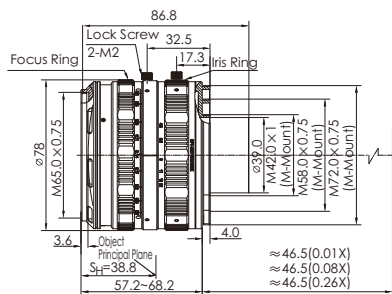
2.OPT-VCT28/2.8-0.10X



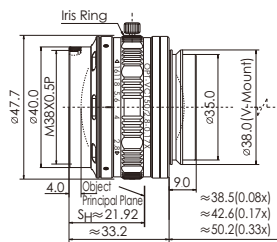
3.OPT-VCT35/2.8-0.10X



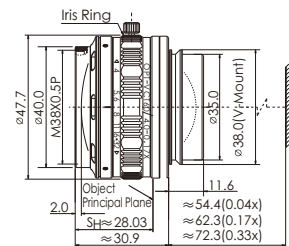
4.OPT-MCT40/4.5-0.08X



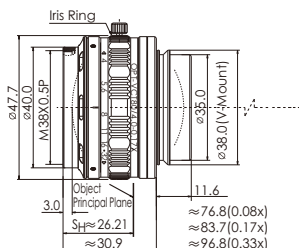
5.OPT-VCT50/2.8-0.17X



6.OPT-VCT60/4.0-0.17X



7.OPT-VCT80/4.0-0.17X



8.OPT-VCT100/5.6-0.17X

