

TPL & TVL Series

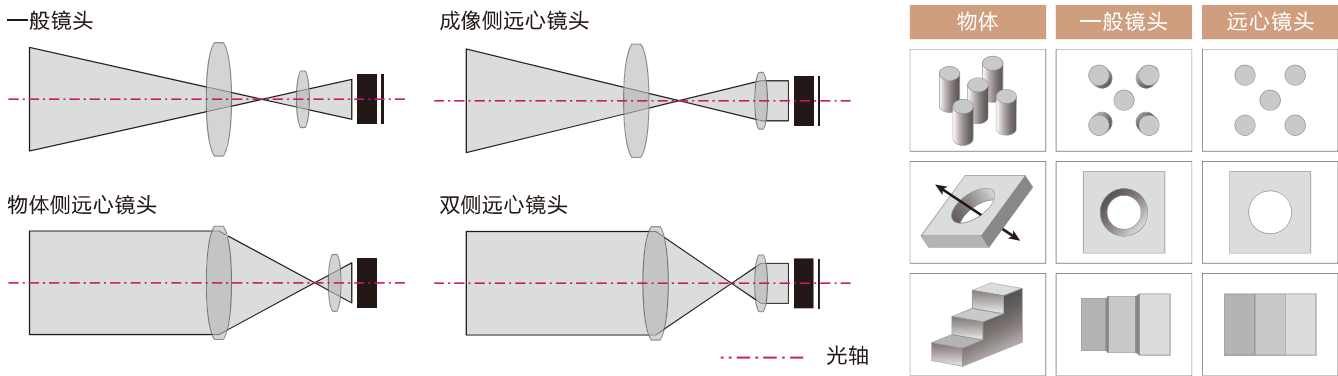
标准型 远心镜头 2/3" 1/1.8"

- 光学倍率可满足从0.5 x ~ 10.0 x、WD40mm ~ 340mm 等多种机种
- 性能方面大幅度的提高了失真与对比度



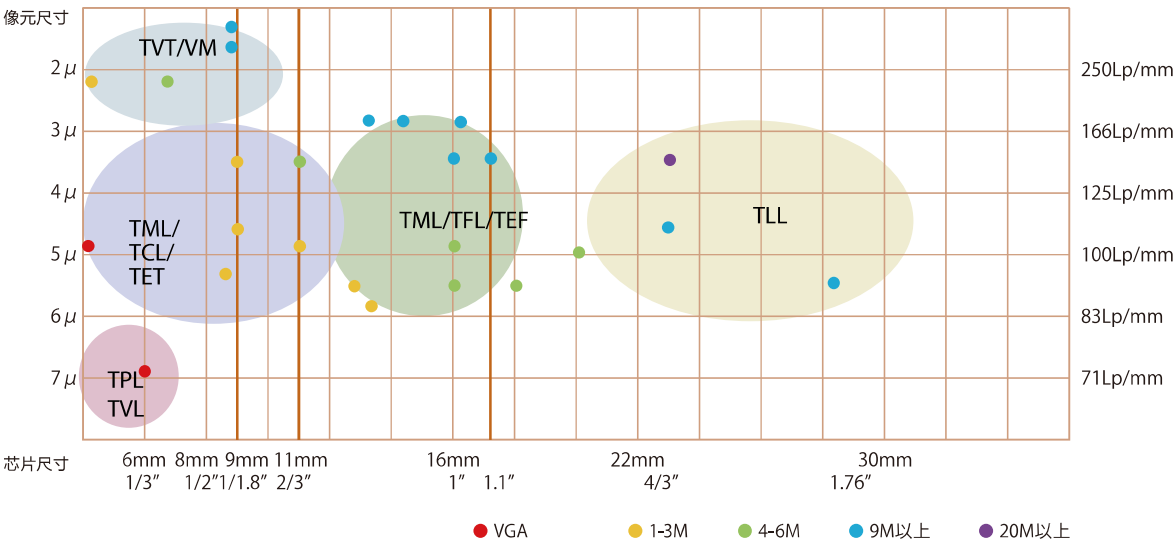
远心镜头

头的主光线与镜头的光轴成平行且非常适合同轴照明。适用于高度的物体的尺寸计算，或高精度的测量。物体的成像大小，不受工作距离的影响



远心镜头系列

近几年，影像传感器发生了很大的变化，其中像素单元尺寸的极小化和芯片尺寸的大型化为二大主流。从而可以应付更高的分辨率得到更清晰的画面。像素单元尺寸变小了，在同样的大小芯片尺寸的情况下，像素的个数会增加。单个像素的受光面积也会减少，为了镜头能够集光到像素单元上，需要解析度更高的镜头。另一种，像素单元尺寸的大小不变，通过增加像素的数量来加大芯片尺寸，此时需要加大镜头的像圈。这两种，虽然在说法上都是增大了芯片尺寸，但其实有着完全不同的意义。「像素单元尺寸与芯片尺寸」针对这两种情况，我司都有相对应的产品线。

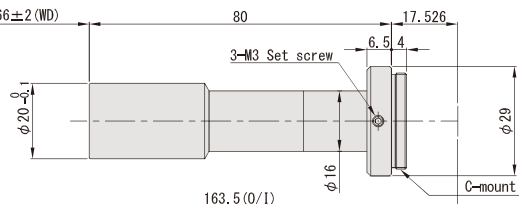
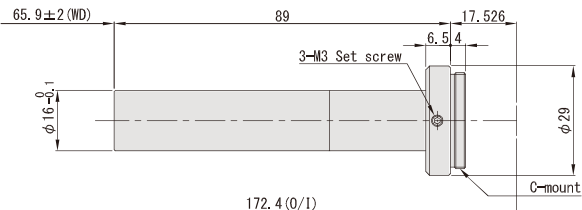
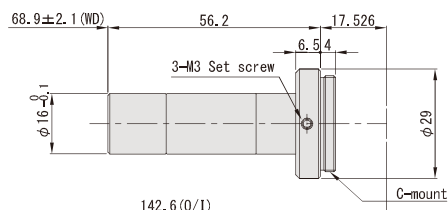
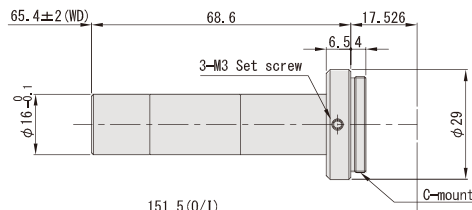
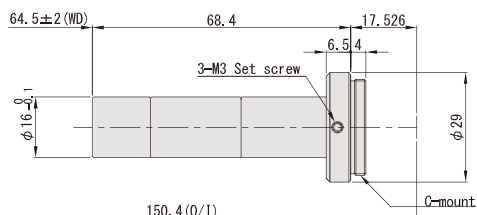
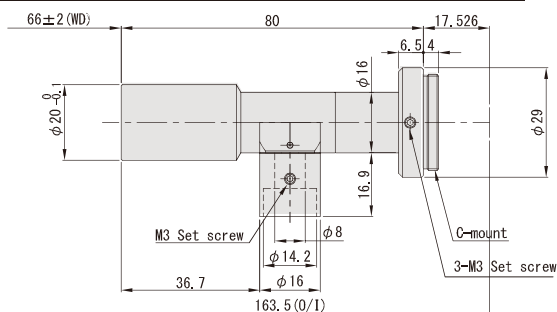


TPL & TVL	标准远心镜头；倍率和工作距离选择性大。
TCL	高分辨率远心镜头；倍率范围 0.5x~6x 工作距离 65mm/110mm。
TML	高分辨率远心镜头；应市场发展需求而新增的系列。
TFL	对应1"芯片的远心镜头；可以完全发挥出1"芯片的解析能力。
TVT	对应1.67um像元的远心镜头；目前业内镜头解像力的巅峰。
VM	远心显微镜镜头；显微镜镜头同等解像力、高NA。
TET	远心变倍镜头。
TEF	对应1"芯片的远心变倍镜头。
TLL	线扫远心镜头。

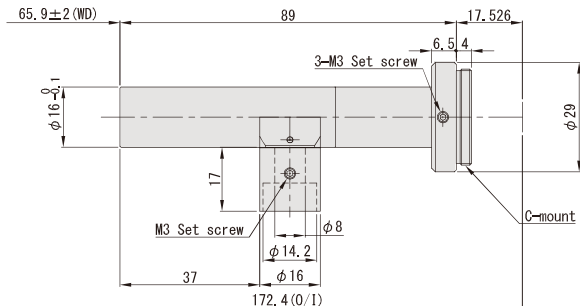


TPL Series 2/3" 1/1.8"

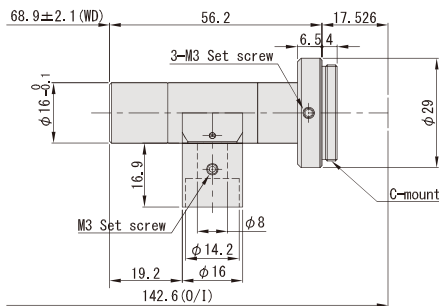
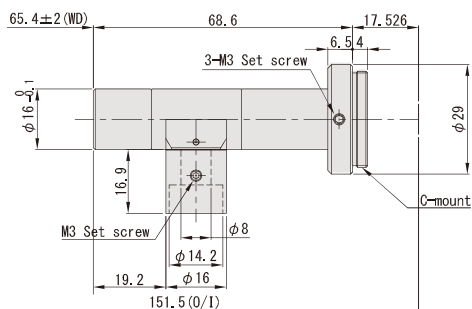
WD:65mm

TPL08-65**TPL1-65****TPL1.5-65****TPL2-65****TPL4-65****TPL08-65CO**

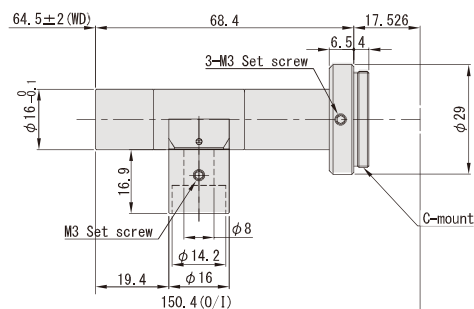
TPL1-65CO



TPL1.5-65CO

**TPL2-65CO**

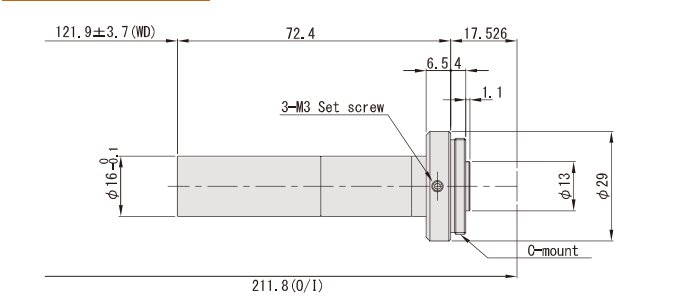
TPL4-65CO



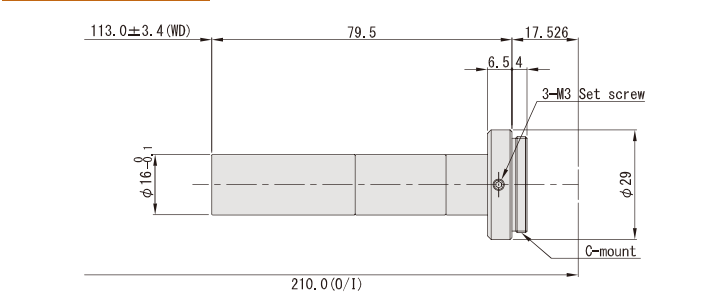
规格	TPL08-65	TPL1-65	TPL1.5-65	TPL2-65	TPL4-65	TPL08-65CO	TPL1-65CO	TPL1.5-65CO	TPL2-65CO	TPL4-65CO
光学倍率	0.8x ± 5%	1.0x ± 5%	1.5x ± 5%	2.0x ± 5%	4.0x ± 5%	0.8x ± 5%	1.0x ± 5%	1.5x ± 5%	2.0x ± 5%	4.0x ± 5%
2/3"	—	—	—	—	1.35 x 1.78	—	—	—	—	1.35 x 1.78
视野	1/1.8"	6.6 × 8.8	5.28 × 7.04	2.64 × 3.52	2.64 × 3.52	1.78 × 2.10	6.6 × 8.8	5.28 × 7.04	2.64 × 3.52	1.78 × 2.10
	1/2"	6.0 × 8.0	4.8 × 6.4	3.2 × 4.3	2.4 × 3.2	1.2 × 1.6	6.0 × 8.0	4.8 × 6.4	3.2 × 4.3	2.4 × 3.2
	1/3"	4.5 × 6.0	3.6 × 4.8	2.4 × 3.2	1.8 × 2.4	0.9 × 1.2	4.5 × 6.0	3.6 × 4.8	2.4 × 3.2	1.8 × 2.4
WD		66.0mm ± 2	65.9mm ± 2	68.9mm ± 2.1	65.4mm ± 2	64.5mm ± 2	66.0mm ± 2	65.9mm ± 2	68.9mm ± 2.1	65.4mm ± 2
物像间距离		163.5	172.4	142.6	151.5	150.4	163.5	172.4	142.6	151.5
实效F		9.6	12.1	25	25	28.9	9.6	12.1	25	28.9
NA		0.042	0.041	0.030	0.040	0.069	0.042	0.041	0.030	0.040
景深		1.2	1.0	0.9	0.5	0.1	1.2	1.0	0.9	0.5
TV失真		-0.01%	0.001%	0.008%	-0.010%	0.014%	-0.01%	0.001%	0.008%	-0.01%
适合芯片		1/1.8"	1/1.8"	1/1.8"	1/1.8"	2/3"	1/1.8"	1/1.8"	1/1.8"	1/1.8"
同轴照明方式		—	—	—	—	—	Built-in	Built-in	Built-in	Built-in
重量		42	39	33	37	35	47	44	39	42

WD: 110 - 120 mm

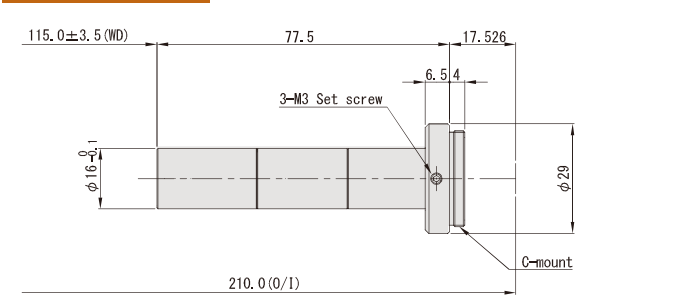
TPL08-120



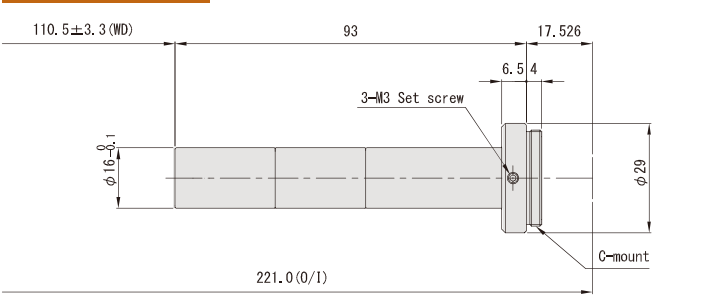
TPL1-110



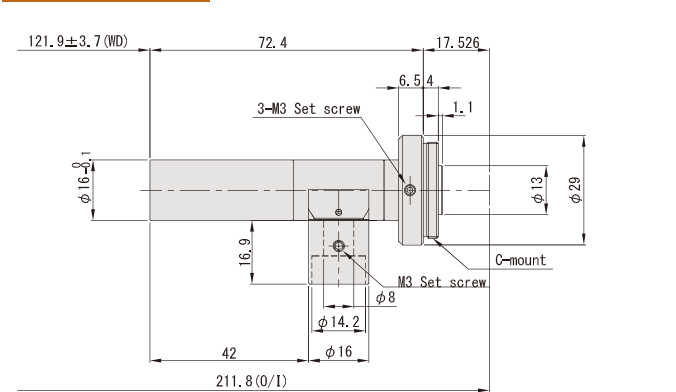
TPL1.5-110



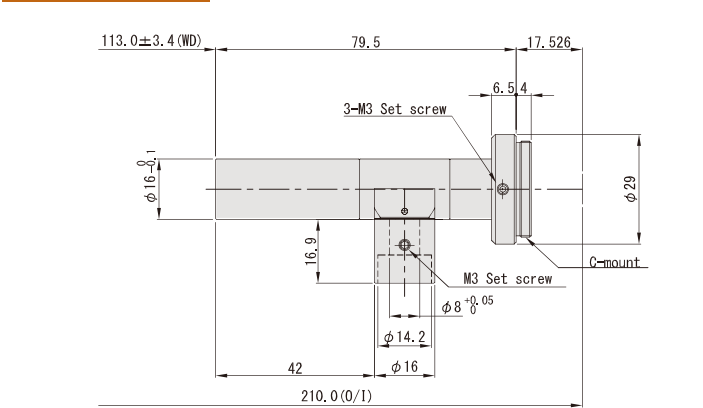
TPL2-110



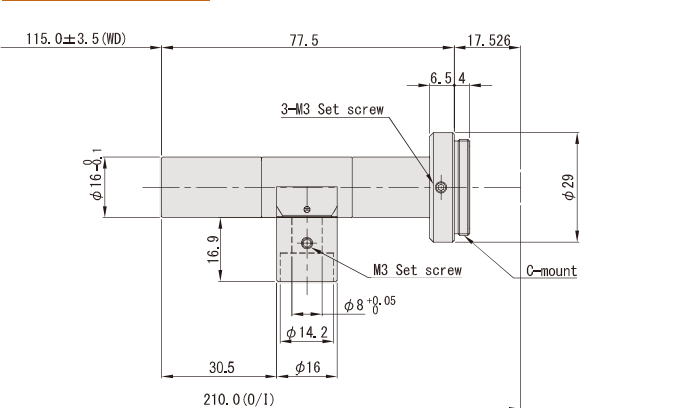
TPL08-120CO



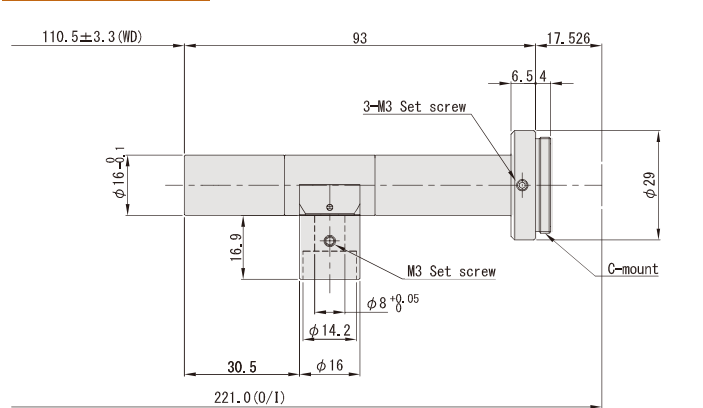
TPL1-110CO



TPL1.5-110CO



TPL2-110CO

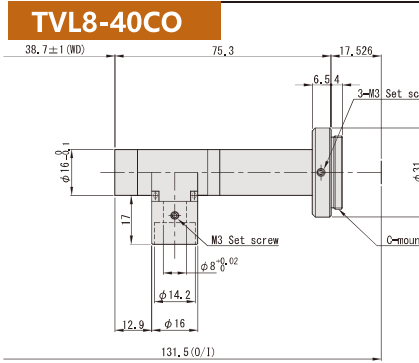
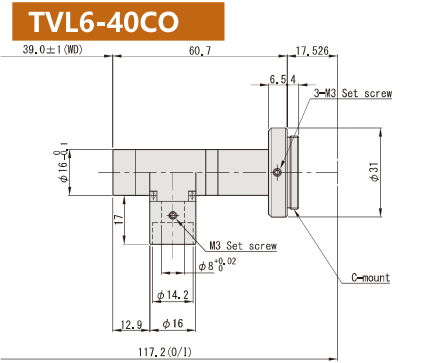
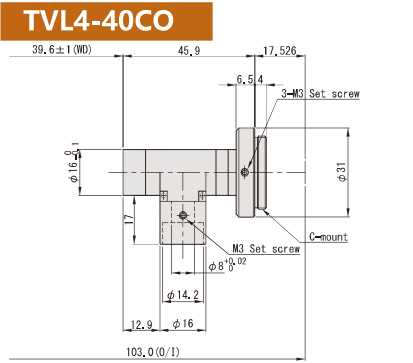
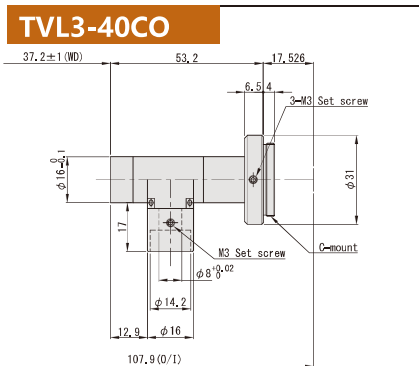
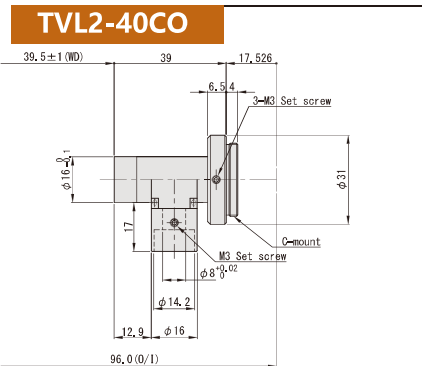
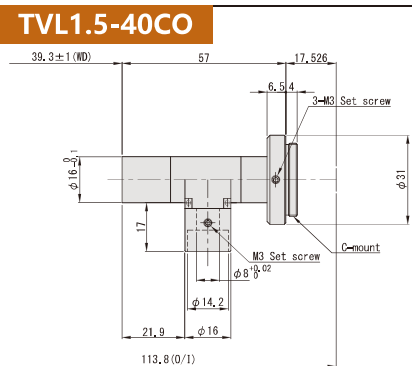
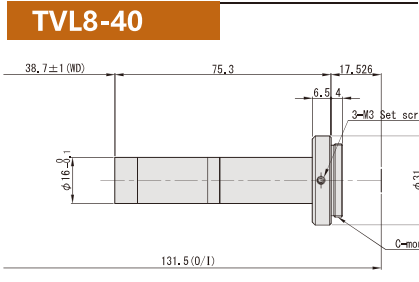
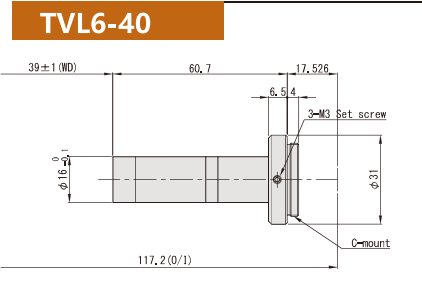
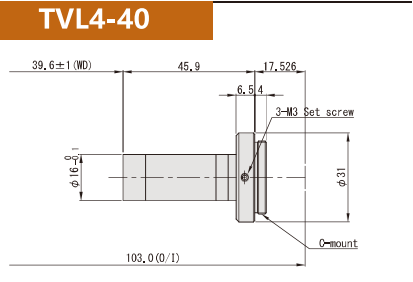
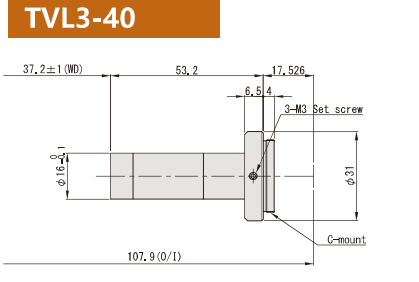
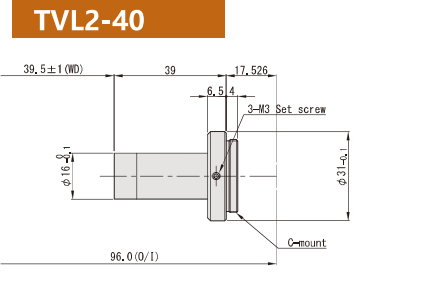
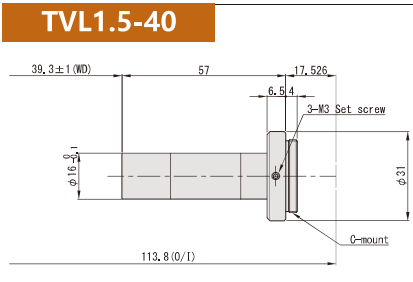


规格	TPL08-120	TPL1-110	TPL1.5-110	TPL2-110	TPL08-120CO	TPL1-110CO	TPL1.5-110CO	TPL2-110CO
光学倍率	0.8x ± 5%	1.0x ± 5%	1.5x ± 5%	2.0x ± 5%	0.8x ± 5%	1.0x ± 5%	1.5x ± 5%	2.0x ± 5%
视野	1/1.8"	—	2.64 x 3.52	3.52 x 4.69	2.64 x 3.52	—	2.64 x 3.52	3.52 x 4.69
	1/2"	6.0 x 8.0	4.8 x 6.4	3.2 x 4.3	2.4 x 3.2	6.0 x 8.0	4.8 x 6.4	3.2 x 4.3
	1/3"	4.5 x 6.0	3.6 x 4.8	2.4 x 3.2	1.8 x 2.4	4.5 x 6.0	3.6 x 4.8	2.4 x 3.2
WD	121.9 ± 3.7	113.0 ± 3.4	115.0 ± 3.5	110.5 ± 3.3	121.9 ± 3.7	113.0 ± 3.4	115.0 ± 3.5	110.5 ± 3.3
物像间距离	211.8	210	210	221	211.8	210	210	221
实效F	17.5	22.7	18.7	24.9	17.5	22.7	18.7	24.9
NA	0.023	0.022	0.040	0.040	0.023	0.022	0.040	0.040
景深	2.2	1.8	0.7	0.5	2.2	1.8	0.7	0.5
TV失真	0.017%	0.002%	0.004%	-0.002%	0.017%	0.002%	0.004%	-0.002%
适合芯片	1/2"	1/1.8"	1/1.8"	1/1.8"	1/2"	1/1.8"	1/1.8"	1/1.8"
同轴照明方式	—	—	—	—	Built-in	Built-in	Built-in	Built-in
重量	36	37	34	37	42	42	39	42

TVL Series

2/3"1/1.8"

WD:40mm

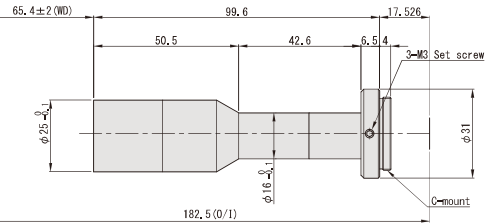


规格	TVL1.5-40	TVL2-40	TVL3-40	TVL4-40	TVL6-40	TVL8-40
光学倍率	1.5x ±5 %	2.0x ±5 %	3.0x ±5 %	4.0x ±5 %	6.0x ±5 %	8.0x ±5 %
视野 (VxH)	2/3"	—	—	—	—	—
	1/2"	3.2 x 4.3 mm	2.4 x 3.2 mm	1.6 x 2.1 mm	0.8 x 1.1 mm	0.6 x 0.8 mm
	1/3"	2.4 x 3.2 mm	1.8 x 2.4 mm	1.2 x 1.6 mm	0.6 x 0.8 mm	0.5 x 0.6 mm
WD	39.3 mm ±1	39.5 mm ±1	37.2 mm ±1	39.6 mm ±1	39.0 mm ±1	38.7 mm ±1
物像间距离	113.8 mm	96.0 mm	107.9 mm	103.0 mm	117.2 mm	131.5 mm
实效F	11.2	15.0	23.5	29.4	43.3	57.0
NA	0.067	0.067	0.064	0.068	0.069	0.070
景深 允许轴乱值φ0.04mm	0.4 mm	0.3 mm	0.2 mm	0.1 mm	0.1 mm	0.07 mm
TV失真	0.00 %	0.00 %	0.00 %	0.00 %	0.00 %	0.00 %
周边光亮 (Y=4)	69 %	84 %	100 %	100 %	100 %	100 %
适合芯片	1/2"	1/2"	1/2"	1/2"	1/2"	1/2"
同轴照明方式	—	—	—	—	—	—
重量	37 g	30 g	33 g	31 g	36 g	39 g

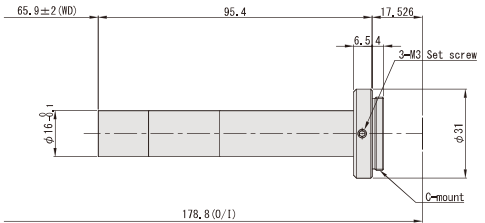
规格	TVL1.5-40CO	TVL2-40CO	TVL3-40CO	TVL4-40CO	TVL6-40CO	TVL8-40CO
光学倍率	1.5x ±5 %	2.0x ±5 %	3.0x ±5 %	4.0x ±5 %	6.0x ±5 %	8.0x ±5 %
视野 (VxH)	2/3"	—	—	—	—	—
	1/2"	3.2 x 4.3 mm	2.4 x 3.2 mm	1.6 x 2.1 mm	0.8 x 1.1 mm	0.6 x 0.8 mm
	1/3"	2.4 x 3.2 mm	1.8 x 2.4 mm	1.2 x 1.6 mm	0.6 x 0.8 mm	0.5 x 0.6 mm
WD	39.3 mm ±1	39.5 mm ±1	37.2 mm ±1	39.6 mm ±1	39.0 mm ±1	38.7 mm ±1
物像间距离	113.8 mm	96.0 mm	107.9 mm	103.0 mm	117.2 mm	131.5 mm
实效F	11.2	15.0	23.5	29.4	43.3	57.0
NA	0.067	0.067	0.064	0.068	0.069	0.070
景深 允许轴乱值φ0.04mm	0.4 mm	0.3 mm	0.2 mm	0.1 mm	0.1 mm	0.07 mm
TV失真	0.00 %	0.00 %	0.00 %	0.00 %	0.00 %	0.00 %
周边光亮 (Y=4)	69 %	84 %	100 %	100 %	100 %	100 %
适合芯片	1/2"	1/2"	1/2"	1/2"	1/2"	1/2"
同轴照明方式	Built-in	Built-in	Built-in	Built-in	Built-in	Built-in
重量	42 g	35 g	39 g	38 g	42 g	45 g

WD:65-70mm

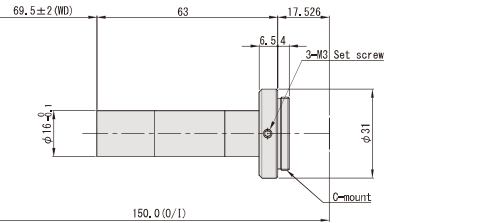
TVL08-65



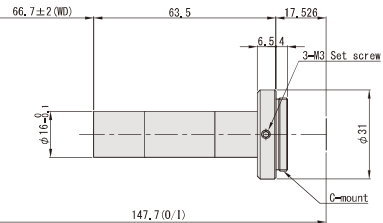
TVL1-65



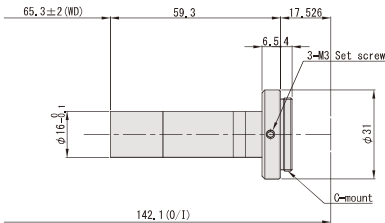
TVL1.5-70



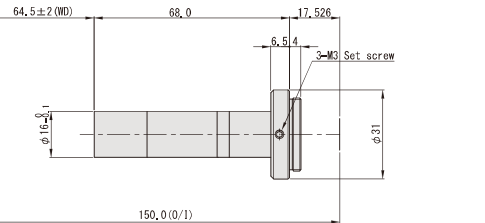
TVL2-65



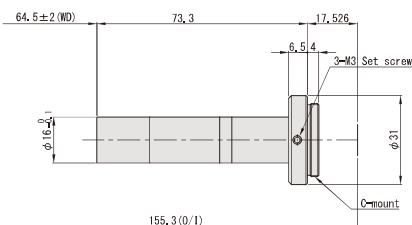
TVL3-65



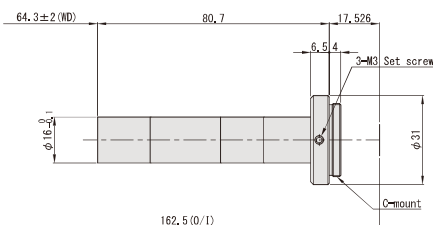
TVL4-65



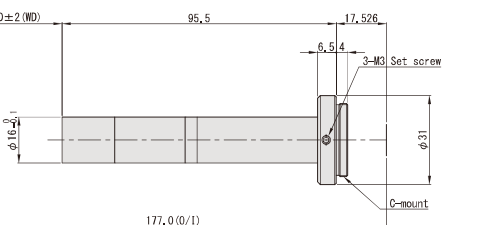
TVL5-65



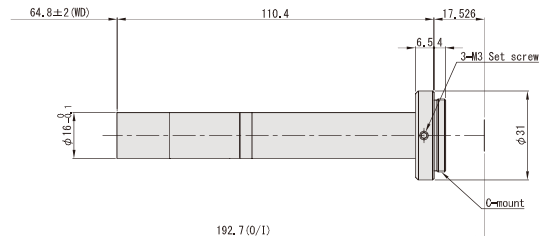
TVL6-65



TVL8-65



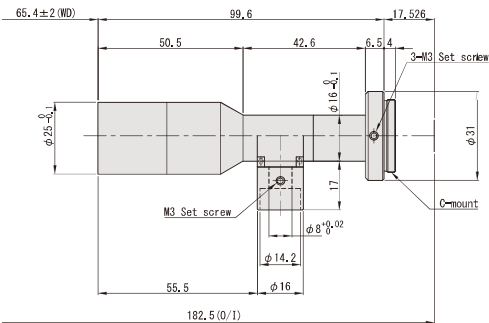
TVL10-65



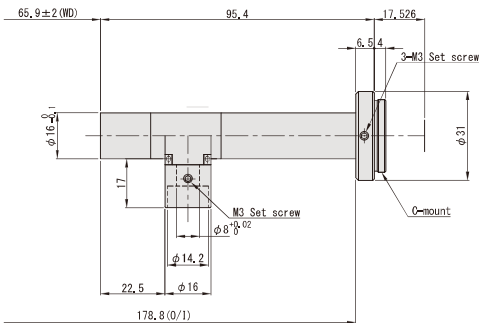
规格	TVL08-65	TVL1-65	TVL1.5-70
光学倍率	0.8x ± 5 %	1.0x ± 5 %	1.5x ± 5 %
视野 (VxH)	2/3"	—	4.7 x 5.6 mm
	1/2"	6.0 x 8.0 mm	3.2 x 4.3 mm
	1/3"	4.5 x 6.0 mm	2.4 x 3.2 mm
WD	65.4 mm ± 2	65.9 mm ± 2	69.5 mm ± 2
物像间距离	182.5 mm	178.8 mm	150.0 mm
实效F	10.0	14.2	15.6
NA	0.040	0.035	0.048
景深 允许制造公差0.04mm	1.3 mm	1.1 mm	0.6 mm
TV失真	0.05 %	0.10 %	0.10 %
周边光亮 (Y=4)	100 %	90 %	90 %
适合芯片	1/2"	1/2"	2/3"
同轴照明方式	—	—	—
重量	72 g	48 g	37 g

规格	TVL2-65	TVL3-65	TVL4-65	TVL5-65	TVL6-65	TVL8-65	TVL10-65
光学倍率	2.0x ± 5 %	3.0x ± 5 %	4.0x ± 5 %	5.0x ± 5 %	6.0x ± 5 %	8.0x ± 5 %	10.0x ± 5 %
视野 (VxH)	2/3"	3.6 x 4.2 mm	2.4 x 2.8 mm	1.8 x 2.1 mm	1.4 x 1.7 mm	1.2 x 1.4 mm	0.9 x 1.1 mm
	1/2"	2.4 x 3.2 mm	1.6 x 2.1 mm	1.2 x 1.6 mm	1.0 x 1.3 mm	0.8 x 1.1 mm	0.6 x 0.8 mm
	1/3"	1.8 x 2.4 mm	1.2 x 1.6 mm	0.9 x 1.2 mm	0.7 x 1.0 mm	0.6 x 0.8 mm	0.5 x 0.6 mm
WD	66.7 mm ± 2	65.3 mm ± 2	64.5 mm ± 2	64.5 mm ± 2	64.3 mm ± 2	64.0 mm ± 2	64.8 mm ± 2
物像间距离	147.7 mm	142.1 mm	150.0 mm	155.3 mm	162.5 mm	177.0 mm	192.7 mm
实效F	15.6	22.0	29.1	36.2	43.1	57.1	73.2
NA	0.064	0.068	0.069	0.069	0.070	0.070	0.068
景深 允许制造公差0.04mm	0.3 mm	0.2 mm	0.1 mm	0.1 mm	0.1 mm	0.07 mm	0.06 mm
TV失真	0.04 %	0.04 %	-0.01 %	0.00 %	0.00 %	0.00 %	0.00 %
周边光亮 (Y=4)	90 %	98 %	100 %	100 %	100 %	100 %	100 %
适合芯片	2/3"	2/3"	2/3"	2/3"	2/3"	2/3"	2/3"
同轴照明方式	—	—	—	—	—	—	—
重量	40 g	38 g	38 g	41 g	43 g	48 g	54 g

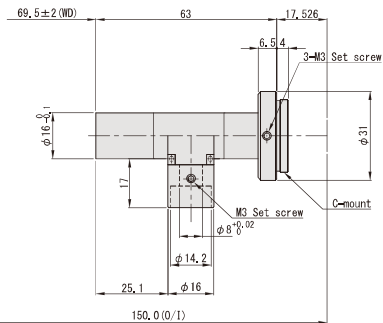
TVL08-65CO



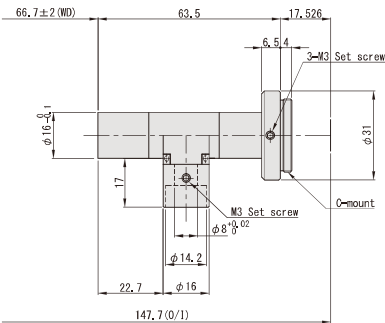
TVL1-65CO



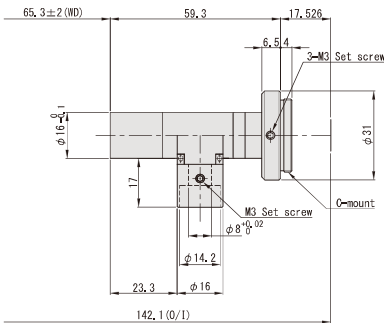
TVL1.5-70CO



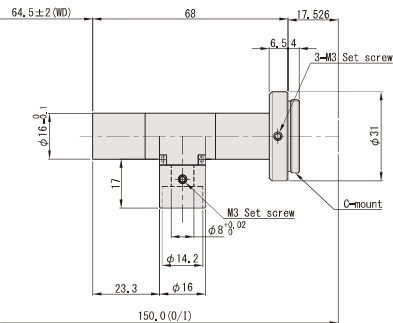
TVL2-65CO



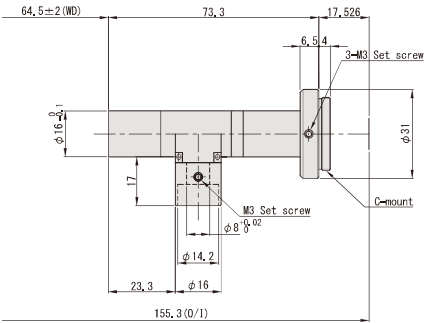
TVL3-65CO



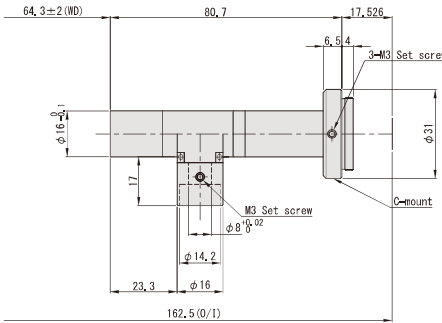
TVL4-65CO



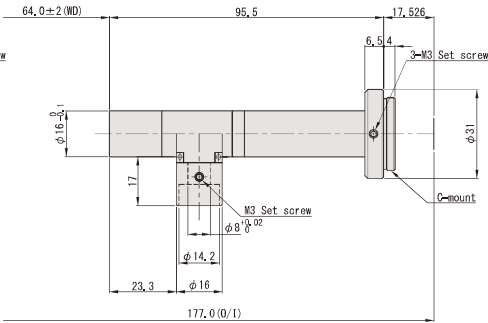
TVL5-65CO



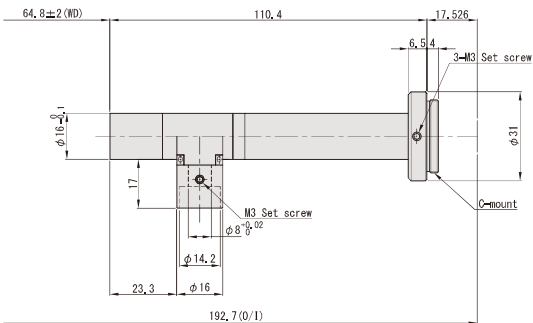
TVL6-65CO



TVL8-65CO



TVL10-65CO

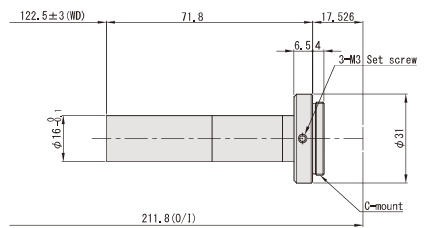


规格	TVL08-65CO	TVL1-65CO	TVL1.5-70CO
光学倍率	0.8x ±5 %	1.0x ±5 %	1.5x ±5 %
视野 (V×H)	2/3"	—	4.7 x 5.6 mm
	1/2"	6.0 x 8.0 mm	4.8 x 6.4 mm
	1/3"	4.5 x 6.0 mm	3.6 x 4.8 mm
WD	65.4 mm ±2	65.9 mm ±2	69.5 mm ±2
物像间距离	182.5 mm	178.8 mm	150.0 mm
实效F	10.0	14.2	15.6
NA	0.040	0.035	0.048
景深 允许轴乱轴φ0.04mm	1.3 mm	1.1 mm	0.6 mm
TV失真	0.05 %	0.10 %	0.10 %
周边光亮 (Y=4)	100 %	90 %	90 %
适合芯片	1/2"	1/2"	2/3"
同轴照明方式	Built-in	Built-in	Built-in
重量	78 g	56 g	44 g

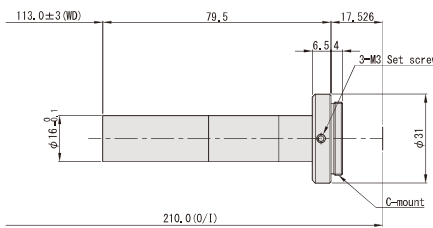
规格	TVL2-65CO	TVL3-65CO	TVL4-65CO	TVL5-65CO	TVL6-65CO	TVL8-65CO	TVL10-65CO
光学倍率	2.0x ±5 %	3.0x ±5 %	4.0x ±5 %	5.0x ±5 %	6.0x ±5 %	8.0x ±5 %	10.0x ±5 %
视野 (V×H)	2/3"	3.6 x 4.2 mm	2.4 x 2.8 mm	1.8 x 2.1 mm	1.4 x 1.7 mm	1.2 x 1.4 mm	0.9 x 0.8 mm
	1/2"	2.4 x 3.2 mm	1.6 x 2.1 mm	1.2 x 1.6 mm	1.0 x 1.3 mm	0.8 x 1.1 mm	0.6 x 0.8 mm
	1/3"	1.8 x 2.4 mm	1.2 x 1.6 mm	0.9 x 1.2 mm	0.7 x 1.0 mm	0.6 x 0.8 mm	0.5 x 0.6 mm
WD	66.7 mm ±2	65.3 mm ±2	64.5 mm ±2	64.5 mm ±2	64.3 mm ±2	64.0 mm ±2	64.8 mm ±2
物像间距离	147.7 mm	142.1 mm	150.0 mm	155.3 mm	162.5 mm	177.0 mm	192.7 mm
实效F	15.6	22.0	29.1	36.2	43.1	57.1	73.2
NA	0.064	0.068	0.069	0.069	0.070	0.070	0.068
景深 允许轴乱轴φ0.04mm	0.3 mm	0.2 mm	0.1 mm	0.1 mm	0.1 mm	0.07 mm	0.06 mm
TV失真	0.04 %	0.04 %	-0.01 %	0.00 %	0.00 %	0.00 %	0.00 %
周边光亮 (Y=5.5)	90 %	98 %	100 %	100 %	100 %	100 %	100 %
适合芯片	2/3"	2/3"	2/3"	2/3"	2/3"	2/3"	2/3"
同轴照明方式	Built-in	Built-in	Built-in	Built-in	Built-in	Built-in	Built-in
重量	46 g	42 g	45 g	47 g	49 g	54 g	58 g

WD:110-170mm

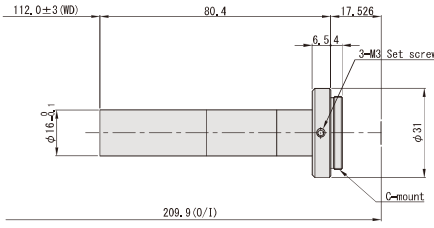
TVL08-120



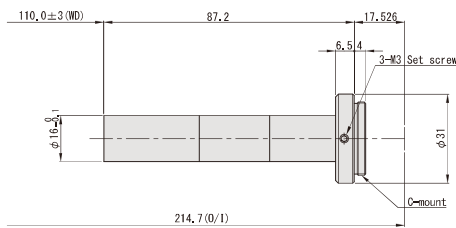
TVL1-110



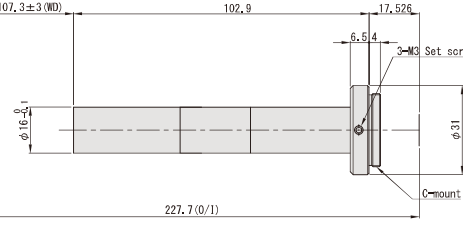
TVL1.5-110



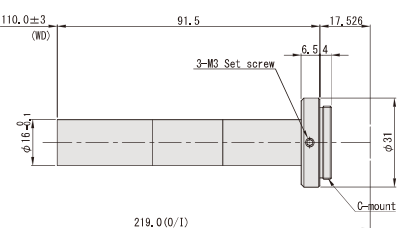
TVL2-110



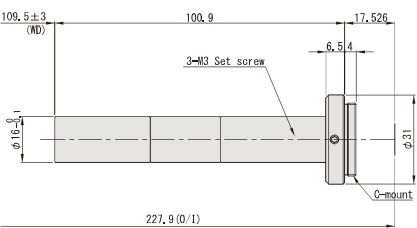
TVL3-110



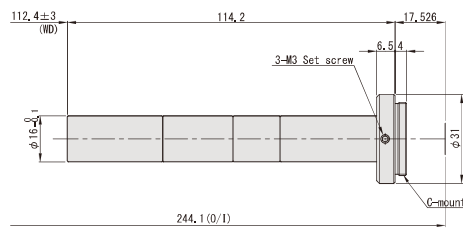
TVL4-110



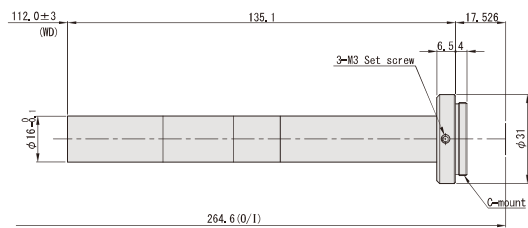
TVL5-110



TVL6-110



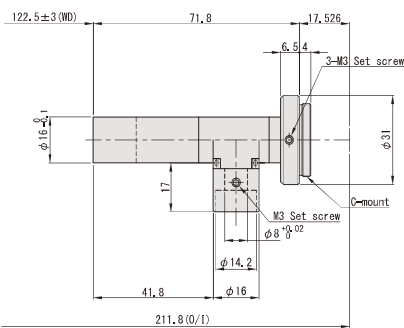
TVL8-110



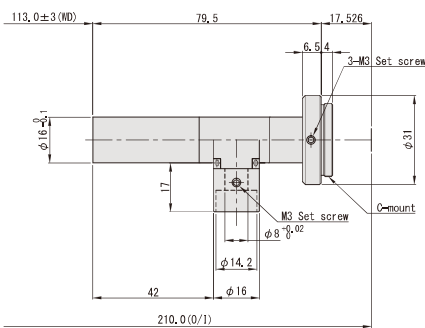
规格	TVL08-120	TVL1-110	TVL1.5-110	TVL2-110	TVL3-110
光学倍率	0.8x ±5 %	1.0x ±5 %	1.5x ±5 %	2.0x ±5 %	3.0x ±5 %
视野 (VxH)	2/3"	—	—	—	2.4 x 2.8 mm
	1/2"	6.0 x 8.0 mm	4.8 x 6.4 mm	2.4 x 3.2 mm	1.6 x 2.1 mm
	1/3"	4.5 x 6.0 mm	3.6 x 4.8 mm	1.8 x 2.4 mm	1.2 x 1.6 mm
WD	122.5 mm ±3	113.0 mm ±3	112.0 mm ±3	110.0 mm ±3	107.3 mm ±3
物像间距离	211.8 mm	210.0 mm	209.9 mm	214.7 mm	227.7 mm
实效F	18.0	20.0	18.8	24.9	37.5
NA	0.022	0.025	0.040	0.040	0.040
景深 允许误差±0.04mm	2.3 mm	1.6 mm	0.7 mm	0.5 mm	0.3 mm
TV失真	0.10 %	0.00 %	0.02 %	0.00 %	0.10 %
周边光亮 (Y=4)	90 %	97 %	91 %	100 %	90 %
适合芯片	1/2"	1/2"	1/2"	1/2"	2/3"
同轴照明方式	—	—	—	—	—
重量	40 g	42 g	42 g	46 g	48 g

规格	TVL4-110	TVL5-110	TVL6-110	TVL8-110
光学倍率	4.0x ±5 %	5.0x ±5 %	6.0x ±5 %	8.0x ±5 %
视野 (VxH)	2/3"	1.8 x 2.1 mm	—	—
	1/2"	1.2 x 1.6 mm	1.0 x 1.3 mm	0.9 x 1.1 mm
	1/3"	0.9 x 1.2 mm	0.7 x 1.0 mm	0.6 x 0.8 mm
WD	110.0 mm ±3	109.5 mm ±3	112.4 mm ±3	112.0 mm ±3
物像间距离	219.0 mm	227.9 mm	244.1 mm	264.6 mm
实效F	41.7	51.8	67.3	89.3
NA	0.048	0.048	0.045	0.045
景深 允许误差±0.04mm	0.2 mm	0.2 mm	0.1 mm	0.1 mm
TV失真	0.00 %	0.00 %	0.00 %	0.00 %
周边光亮 (Y=5.5)	100 %	100 %	100 %	100 %
适合芯片	2/3"	1/2"	2/3"	2/3"
同轴照明方式	—	—	—	—
重量	49 g	52 g	54 g	60 g

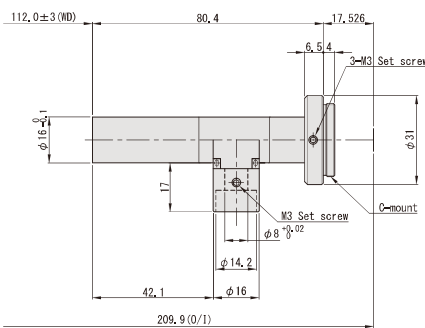
TVL08-120CO



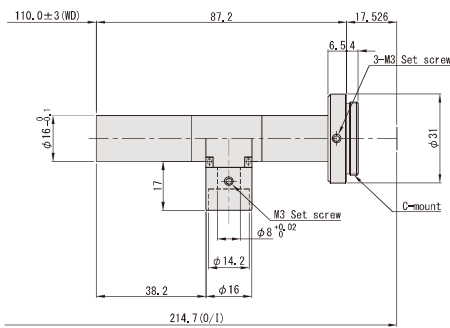
TVL1-110CO



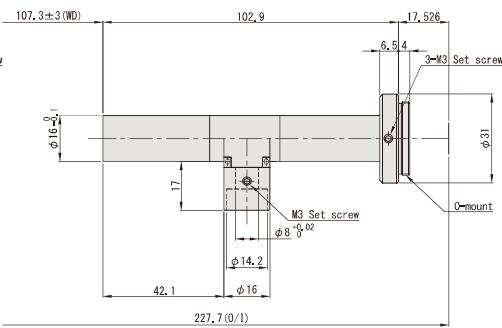
TVL1.5-110CO



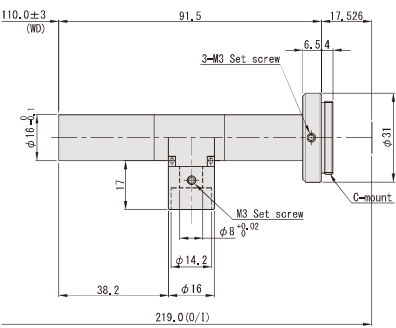
TVL2-110CO



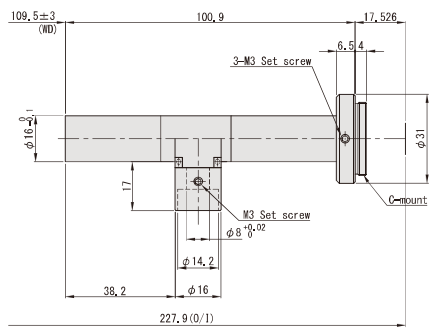
TVL3-110CO



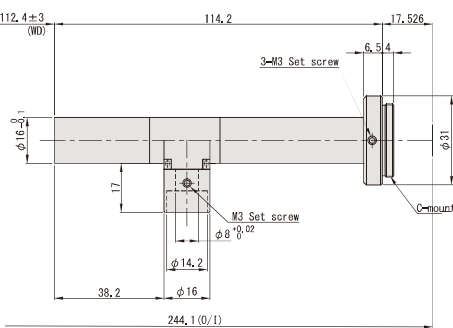
TVL4-110CO



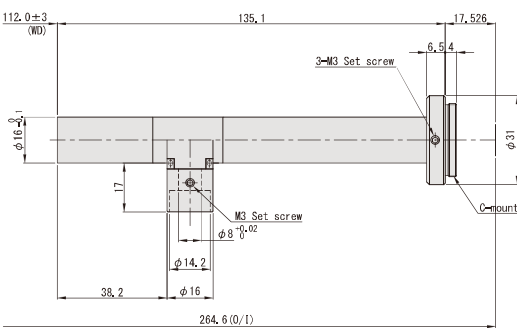
TVL5-110CO



TVL6-110CO



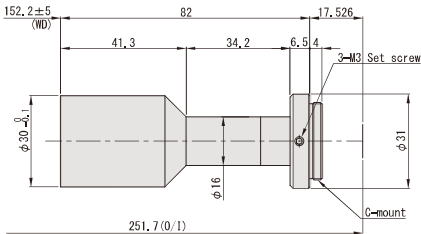
TVL8-110CO



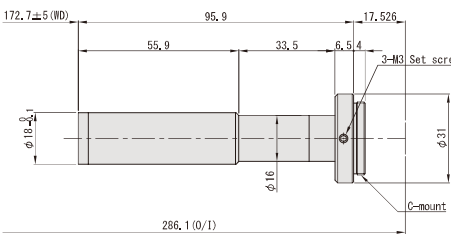
规格	TVL08-120CO	TVL1-110CO	TVL1.5-110CO	TVL2-110CO	TVL3-110CO
光学倍率	0.8x ±5 %	1.0x ±5 %	1.5x ±5 %	2.0x ±5 %	3.0x ±5 %
视野 (VxH)	2/3"	—	—	—	2.4 x 2.8 mm
1/2"	6.0 x 8.0 mm	4.8 x 6.4 mm	3.2 x 4.3 mm	2.4 x 3.2 mm	1.6 x 2.1 mm
1/3"	4.5 x 6.0 mm	3.6 x 4.8 mm	2.4 x 3.2 mm	1.8 x 2.4 mm	1.2 x 1.6 mm
WD	122.5 mm ±3	113.0 mm ±3	112.0 mm ±3	110.0 mm ±3	107.3 mm ±3
物像间距离	211.8 mm	210.0 mm	209.9 mm	214.7 mm	227.7 mm
实效F	18.0	20.0	18.8	24.9	37.5
NA	0.022	0.025	0.040	0.040	0.040
景深 允许错乱度φ0.04mm	2.3 mm	1.6 mm	0.7 mm	0.5 mm	0.3 mm
TV失真	0.10 %	0.00 %	0.02 %	0.00 %	0.10 %
周边光亮 (Y=4)	90 %	97 %	91 %	100 %	90 %
适合芯片	1/2"	1/2"	1/2"	1/2"	2/3"
同轴照明方式	Built-in	Built-in	Built-in	Built-in	Built-in
重量	46 g	48 g	49 g	52 g	56 g

规格	TVL4-110CO	TVL5-110CO	TVL6-110CO	TVL8-110CO
光学倍率	4.0x ±5 %	5.0x ±5 %	6.0x ±5 %	8.0x ±5 %
视野 (VxH)	2/3"	1.8 x 2.1 mm	—	—
1/2"	1.2 x 1.6 mm	1.0 x 1.3 mm	1.2 x 1.4 mm	0.9 x 1.1 mm
1/3"	0.9 x 1.2 mm	0.7 x 1.0 mm	0.8 x 1.1 mm	0.6 x 0.8 mm
WD	110.0 mm ±3	109.5 mm ±3	112.4 mm ±3	112.0 mm ±3
物像间距离	219.0 mm	227.9 mm	244.1 mm	264.6 mm
实效F	41.7	51.8	67.3	89.3
NA	0.048	0.048	0.045	0.045
景深 允许错乱度φ0.04mm	0.2 mm	0.2 mm	0.1 mm	0.1 mm
TV失真	0.00 %	0.00 %	0.00 %	0.00 %
周边光亮 (Y=5.5)	100 %	100 %	100 %	100 %
适合芯片	2/3"	1/2"	2/3"	2/3"
同轴照明方式	Built-in	Built-in	Built-in	Built-in
重量v	54 g	58 g	60 g	66 g

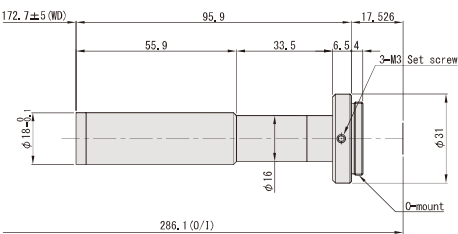
TVL05-150



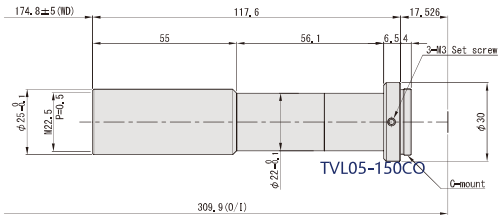
TVL06-170



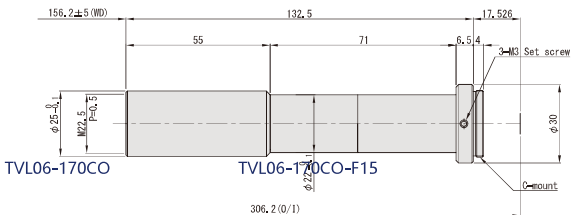
TVL06-170-F15



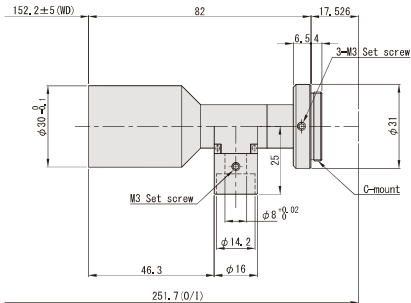
TVL08-170



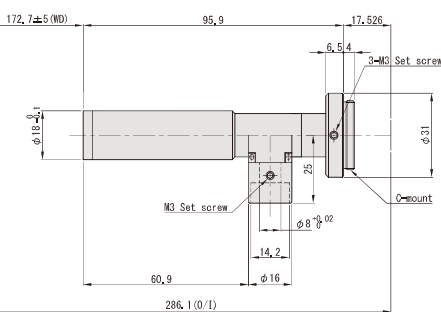
TVL1-150



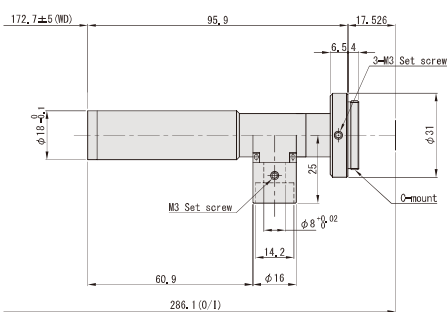
TVL05-150CO



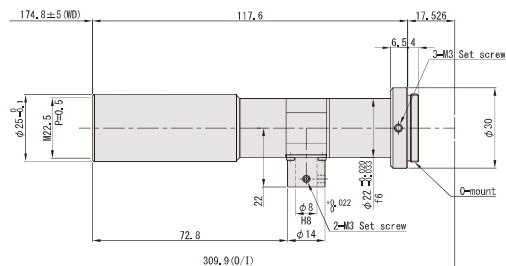
TVL06-170CO



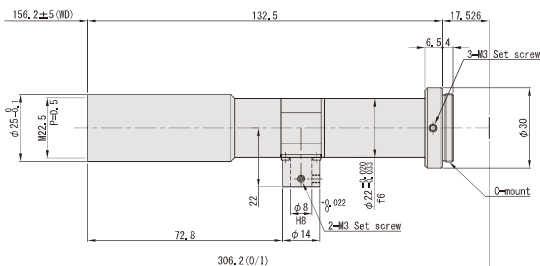
TVL06-170CO-F15



TVL08-170CO



TVL1-150CO

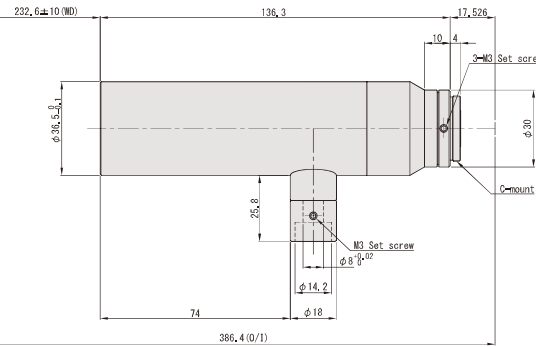


规格	TVL05-150	TVL06-170	TVL06-170-F15	TVL08-170	TVL1-150
光学倍率	0.5x ±5 %	0.6x ±5 %	0.6x ±5 %	0.8x ±5 %	1.0x ±5 %
视野 (VxH)	2/3"	—	—	—	—
	1/2"	9.6 x 12.8 mm	—	6.0 x 8.0 mm	4.8 x 6.4 mm
	1/3"	7.2 x 9.6 mm	6.0 x 8.0 mm	4.5 x 6.0 mm	3.6 x 4.8 mm
WD	152.2 mm ±5	172.7 mm ±5	172.7 mm ±5	174.8 mm ±5	156.2 mm ±5
物像间距离	251.7 mm	286.1 mm	286.1 mm	309.9 mm	306.2 mm
实效F	12.5	30.0	15.0	13.9	13.0
NA	0.020	0.010	0.020	0.029	0.038
景深 允许错乱值±0.04mm	4.0 mm	6.7 mm	3.3 mm	1.7 mm	1.0 mm
TV失真	0.10 %	0.10 %	0.10 %	0.02 %	0.01 %
周边光亮 (Y=3)	90 %	95 %	95 %	99 %	99 %
适合芯片	1/2"	1/3"	1/3"	1/2"	1/2"
同轴照明方式	—	—	—	—	—
重量	76 g	48 g	47 g	72 g	78 g

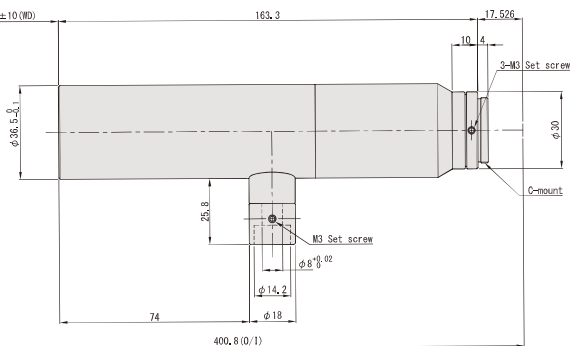
规格	TVL05-150CO	TVL06-170CO	TVL06-170CO-F15	TVL08-170CO	TVL1-150CO
光学倍率	0.5x ±5 %	0.6x ±5 %	0.6x ±5 %	0.8x ±5 %	1.0x ±5 %
视野 (VxH)	2/3"	—	—	—	—
	1/2"	9.6 x 12.8 mm	—	6.0 x 8.0 mm	4.8 x 6.4 mm
	1/3"	7.2 x 9.6 mm	6.0 x 8.0 mm	4.5 x 6.0 mm	3.6 x 4.8 mm
WD	152.2 mm ±5	172.7 mm ±5	172.7 mm ±5	174.8 mm ±5	156.2 mm ±5
物像间距离	251.7 mm	286.1 mm	286.1 mm	309.9 mm	306.2 mm
实效F	12.5	30.0	15.0	13.9	13.0
NA	0.020	0.010	0.020	0.029	0.038
景深 允许错乱值±0.04mm	4.0 mm	6.7 mm	3.3 mm	1.7 mm	1.0 mm
TV失真	0.10 %	0.10 %	0.10 %	0.02 %	0.01 %
周边光亮 (Y=4)	90 %	95 %	95 %	99 %	99 %
适合芯片	1/2"	1/3"	1/3"	1/2"	1/2"
同轴照明方式	Built-in	Built-in	Built-in	Built-in	Built-in
重量	82 g	54 g	54 g	78 g	82 g

WD:220mm

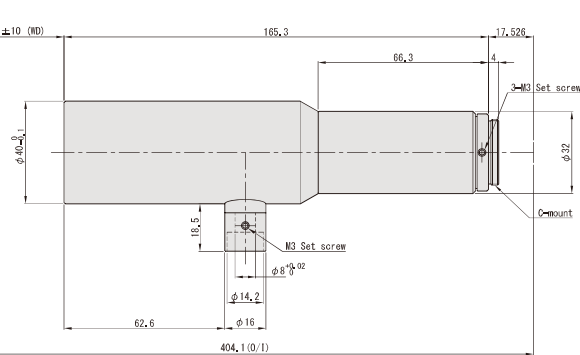
TVL08-220CO



TVL2-220CO



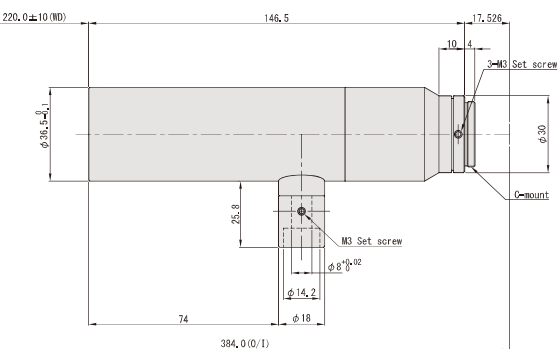
TVL6-220CO



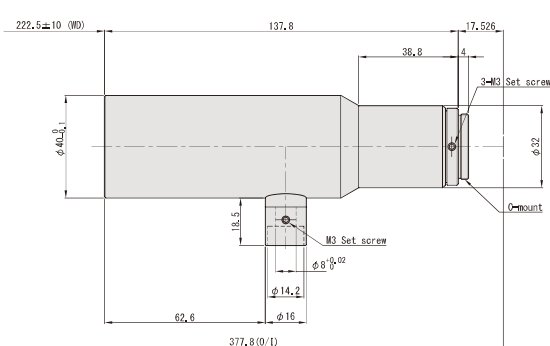
规格		TVL08-220CO	TVL1-220CO
光学倍率		0.8x ± 5 %	1.0x ± 5 %
视野 (VxH)	2/3"	—	—
	1/2"	6.0 x 8.0 mm	4.8 x 6.4 mm
	1/3"	4.5 x 6.0 mm	3.6 x 4.8 mm
WD		232.6 mm ± 10	220.0 mm ± 10
物像间距离		386.4 mm	384.0 mm
实效F		8.0	10.0
NA		0.050	0.050
景深 允许错乱度φ0.04mm		1.0 mm	0.8 mm
TV失真		-0.15 %	0.10 %
周边光亮 (Y=4)		85 %	90 %
适合芯片		1/2"	1/2"
同轴照明方式		Built-in	Built-in
重量		225 g	245 g

规格		TVL2-220CO	TVL4-220CO	TVL6-220CO	TVL8-220CO	TVL10-220CO
光学倍率		2.0x ± 5 %	4.0x ± 5 %	6.0x ± 5 %	8.0x ± 5 %	10.0x ± 5 %
视野 (VxH)	2/3"	—	—	—	—	—
	1/2"	2.4 x 3.2 mm	1.2 x 1.6 mm	0.8 x 1.1 mm	0.6 x 0.8 mm	0.5 x 0.6 mm
	1/3"	1.8 x 2.4 mm	0.9 x 1.2 mm	0.6 x 0.8 mm	0.5 x 0.6 mm	0.4 x 0.5 mm
WD		220.0 mm ± 10	222.5 mm ± 10	221.3 mm ± 10	220.8 mm ± 10	218.4 mm ± 10
物像间距离		400.8 mm	377.8 mm	404.1 mm	431.2 mm	457.3 mm
实效F		20.0	29.4	44.1	58.8	73.5
NA		0.050	0.068	0.068	0.068	0.068
景深 允许错乱度φ0.04mm		0.4 mm	0.1 mm	0.1 mm	0.07 mm	0.06 mm
TV失真		0.10 %	0.10 %	0.10 %	0.10 %	0.10 %
周边光亮 (Y=5.5)		90 %	90 %	90 %	90 %	90 %
适合芯片		1/2"	1/2"	1/2"	1/2"	1/2"
同轴照明方式		Built-in	Built-in	Built-in	Built-in	Built-in
重量		270 g	330 g	360 g	390 g	420 g

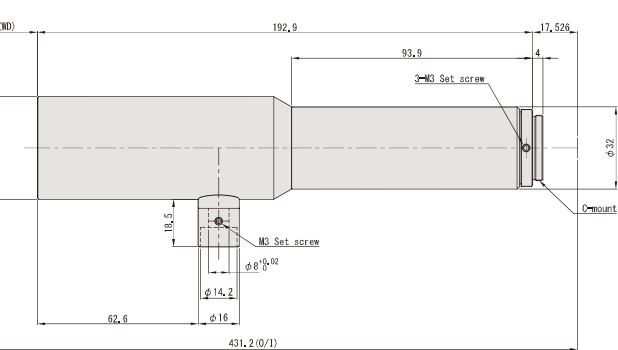
TVL1-220CO



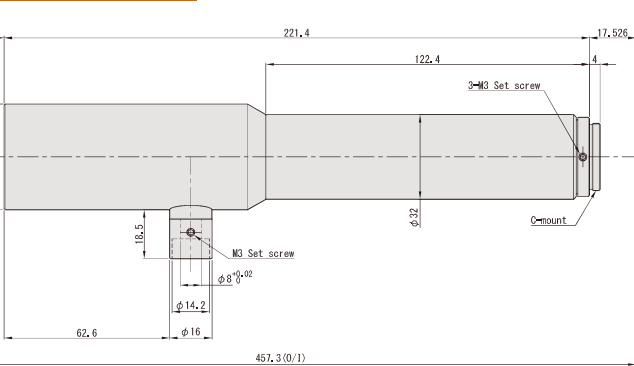
TVL4-220CO



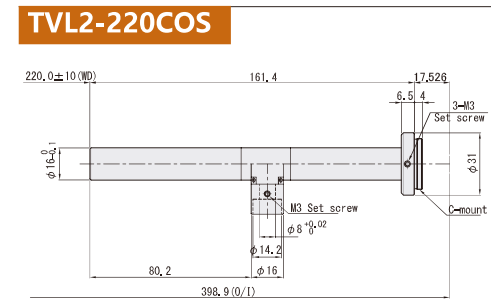
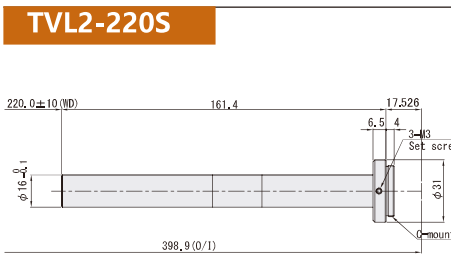
TVL8-220CO



TVL10-220CO

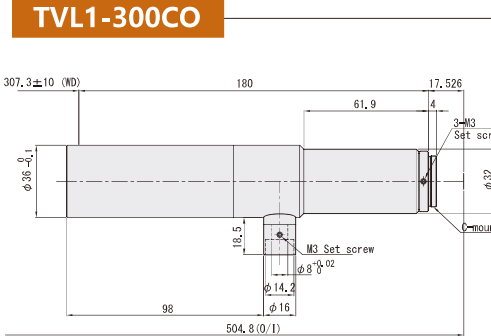
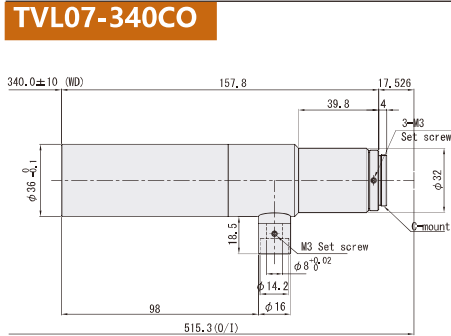


WD:220mmφ16シリーズ



规格	TVL2-220S	TVL2-220COS
光学倍率	2.0x ± 5 %	2.0x ± 5 %
视野 (VxH)	2/3"	—
	1/2"	2.4 x 3.2 mm
	1/3"	1.8 x 2.4 mm
WD	222.0 mm ± 10	220.0 mm ± 10
物像间距离	389.9 mm	398.9 mm
实效F	43.5	43.5
NA	0.023	0.023
景深 允许错乱度φ0.04mm	0.9 mm	0.9 mm
TV失真	0.10 %	0.10 %
周边光亮 (Y=4)	90 %	90 %
适合芯片	1/2"	1/2"
同轴照明方式	—	Built-in
重量	66 g	70 g

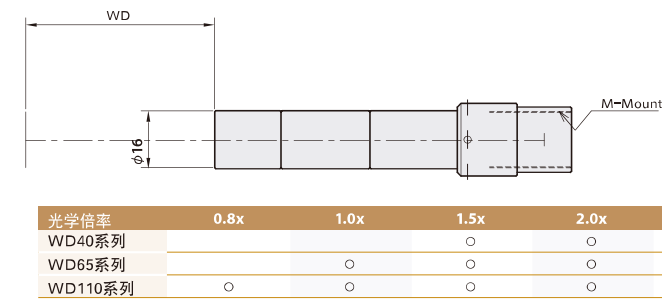
WD:300-340mm



规格	TVL07-340CO	TVL1-300CO
光学倍率	0.7x ± 5 %	1.0x ± 5 %
视野 (VxH)	2/3"	—
	1/2"	6.9 x 9.1mm
	1/3"	5.1 x 6.9mm
WD	340.0mm ± 10	307.3 mm ± 10
物像间距离	515.3mm	504.8 mm
实效F	10.9	15.6
NA	0.032	0.032
景深 允许错乱度φ0.04mm	1.8 mm	1.2 mm
TV失真	0.10 %	0.10 %
周边光亮 (Y=)	100 %	100 %
适合芯片	1/2"	1/2"
同轴照明方式	Built-in	Built-in
重量	235g	265g

供分离型相机型号 (M15.5 P0.5 接口)

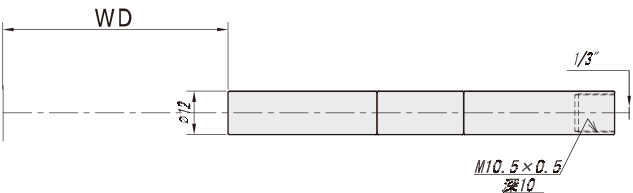
φ 16mm 非同轴光型号



光学倍率	0.8x	1.0x	1.5x	2.0x	3.0x	4.0x	5.0x	6.0x	8.0x	10.0x
WD40系列			○	○	○	○		○	○	
WD65系列		○	○	○	○	○	○	○	○	○
WD110系列	○	○	○	○	○	○	○	○	○	

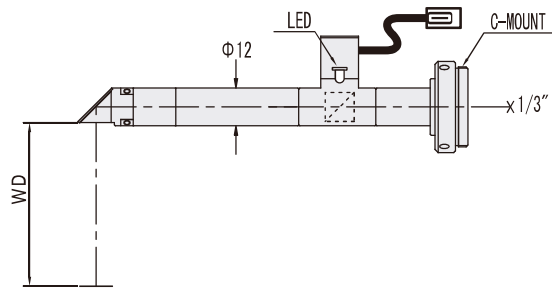
定制细小直径各式镜头也可以提供。例如分离型CCD镜头供M10.5 P0.5或是C接口镜头连小巧棱镜和同轴光LED。请与我们销售部联系。

供分离型相机型号 (M10.5 P0.5 接口)

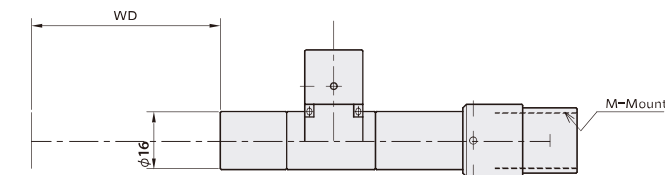


以供定制样品款式

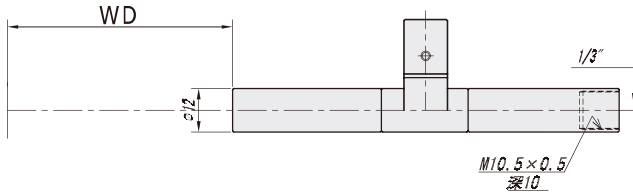
φ 12mm镜头90度C接口型号



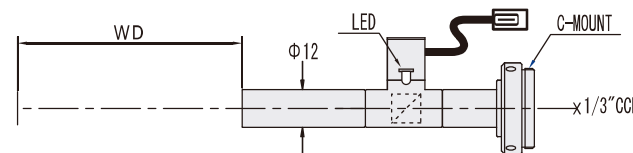
φ 16mm 内置同轴光型号



同轴光型号供M10.5 P0.5



φ 12mm镜头接口型号



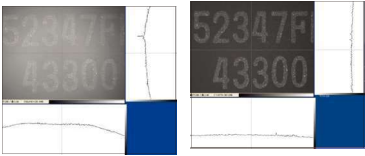
* LED光源 : 0.3A/12V

TCL Series 2/3"

高对比度

其他产品

TCL 系列

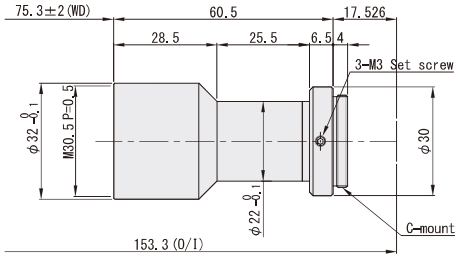


将TC系列的WD65, 110mm的镜头转化为百万像素的高解像度的新远心镜头系列。

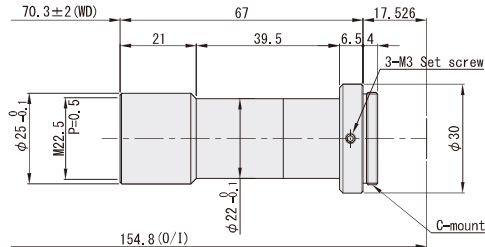
此系列的最大特征为能够对应近几年的百万像素相机、彻底提高失真和对比度、实现全部画面无失真、无光量差异、可以取得高品质的画像。

WD:65-75mm

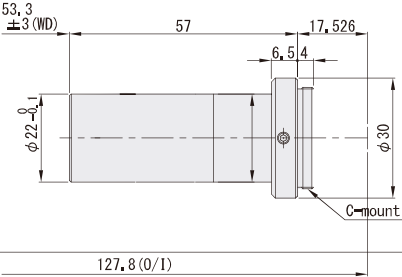
TCL05-65



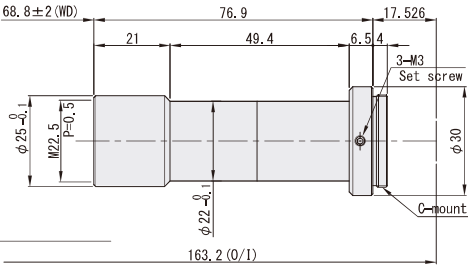
TCL08-65



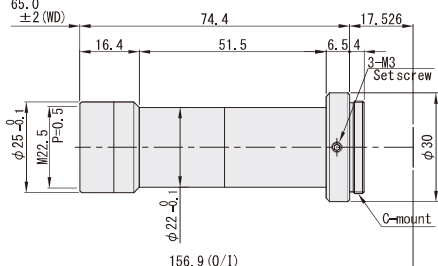
TCL1-50



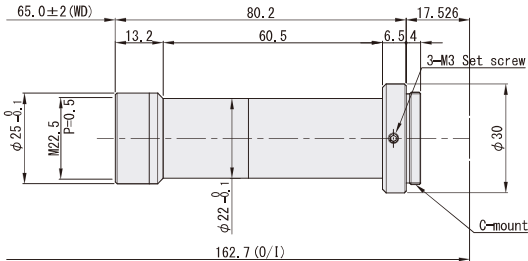
TCL1-65



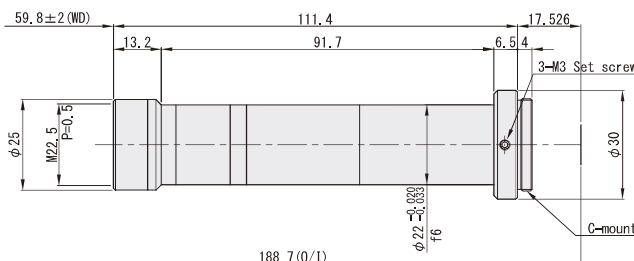
TCL1.5-65



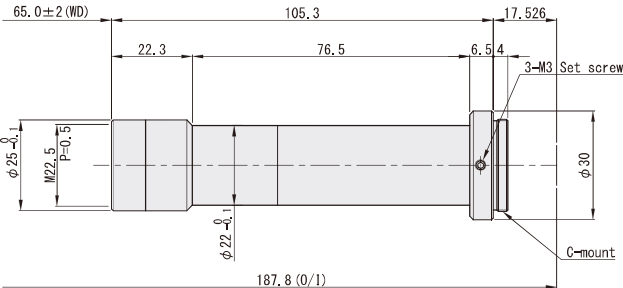
TCL2-65



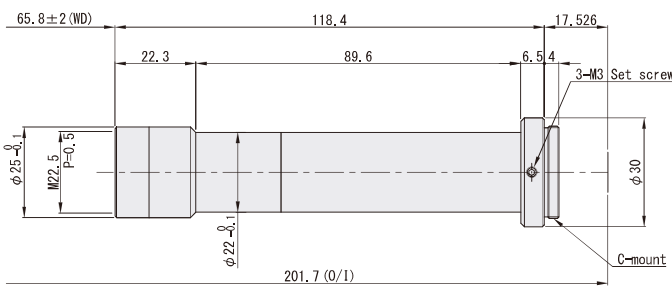
TCL3-60



TCL4-65

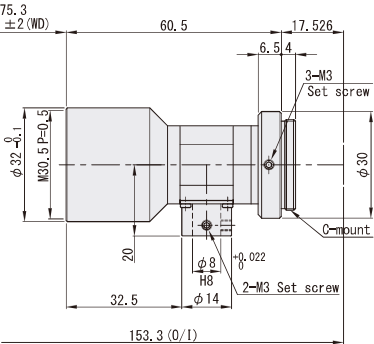


TCL6-65

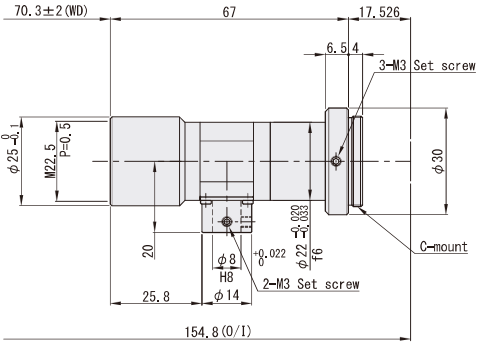


规格	TCL05-65	TCL08-65	TCL1-50	TCL1-65	TCL1.5-65	TCL2-65	TCL3-60	TCL4-65	TCL6-65
光学倍率	0.5x ± 5 %	0.8x ± 5 %	1.0x ± 5 %	1.0x ± 5 %	1.5x ± 5 %	2.0x ± 5 %	3.0x ± 5 %	4.0x ± 5 %	6.0x ± 5 %
视野 (VxH)	2/3"	14.2 x 16.8 mm	8.9 x 10.5 mm	7.1 x 8.4 mm	7.1 x 8.4 mm	4.7 x 5.6 mm	3.6 x 4.2 mm	2.4 x 2.8 mm	1.8 x 2.1 mm
	1/2"	9.6 x 12.8 mm	6.0 x 8.0 mm	4.8 x 6.4 mm	4.8 x 6.4 mm	3.2 x 4.3 mm	2.4 x 3.2 mm	1.6 x 2.1 mm	1.2 x 1.6 mm
WD	1/3"	7.2 x 9.6 mm	4.5 x 6.0 mm	3.6 x 4.8 mm	3.6 x 4.8 mm	2.4 x 3.2 mm	1.8 x 2.4 mm	1.2 x 1.6 mm	0.9 x 1.2 mm
		75.3 mm ± 2	70.3 mm ± 2	53.3 mm ± 3	68.8 mm ± 2	65.0 mm ± 2	65.0 mm ± 2	59.8 mm ± 2	65.0 mm ± 2
物像间距离O/I		153.3 mm	154.8 mm	127.8 mm	163.2 mm	156.9 mm	162.7 mm	188.7 mm	201.7 mm
实效F		9.4	9.6	9.9	9.9	11.8	13.6	20.5	17.9
NA		0.027	0.042	0.050	0.050	0.064	0.074	0.073	0.112
景深 允许错乱值φ0.04mm		3.0 mm	1.2 mm	0.8 mm	0.8 mm	0.4 mm	0.3 mm	0.2 mm	0.09 mm
TV失真 (2/3")		0.02 %	0.01 %	0.02 %	0.01 %	0.01 %	0.03 %	0.01 %	0.02 %
周边光亮 (Y=5.5)		94 %	98 %	99 %	99 %	100 %	98 %	99 %	85 %
适合芯片		2/3"	2/3"	2/3"	2/3"	2/3"	2/3"	2/3"	2/3"
同轴照明方式		—	—	—	—	—	—	—	—
滤镜口径		M 30.5 P = 0.5	M 22.5 P = 0.5	—	M 22.5 P = 0.5	M 22.5 P = 0.5	M 22.5 P = 0.5	M 22.5 P = 0.5	M 22.5 P = 0.5
重量		62 g	58 g	47 g	60 g	60 g	58 g	72 g	80 g

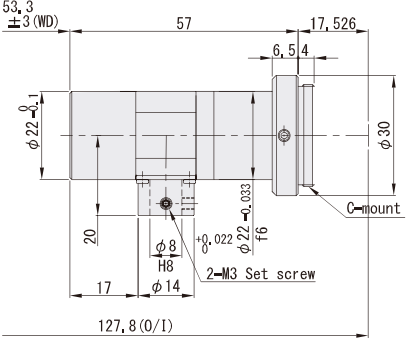
TCL05-65CO



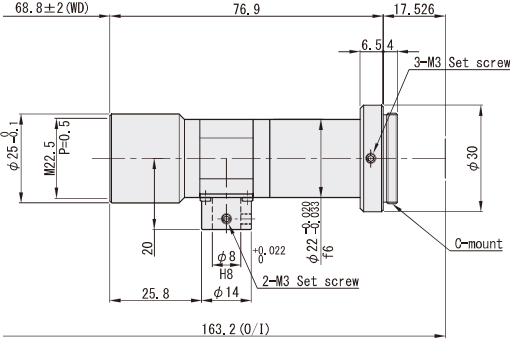
TCL08-65CO



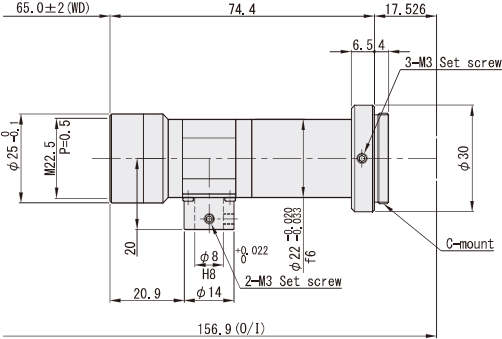
TCL1-50CO



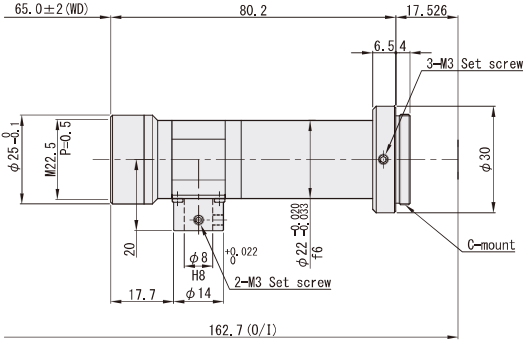
TCL1-65CO



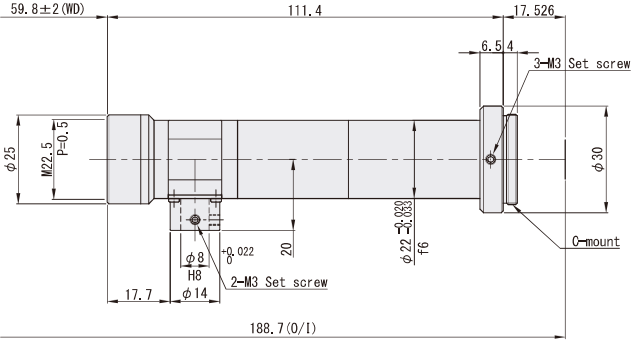
TCL1.5-65CO



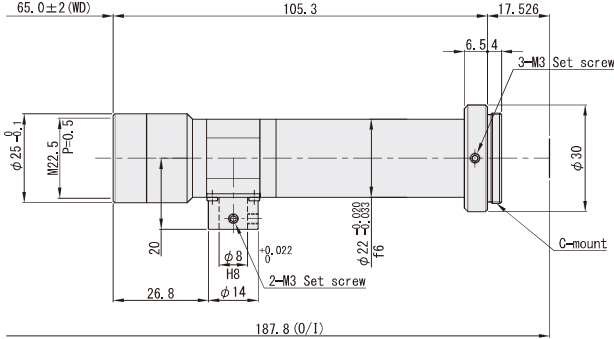
TCL2-65CO



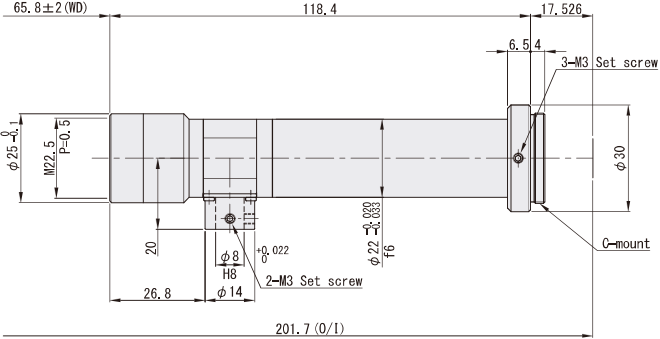
TCL3-60CO



TCL4-65CO

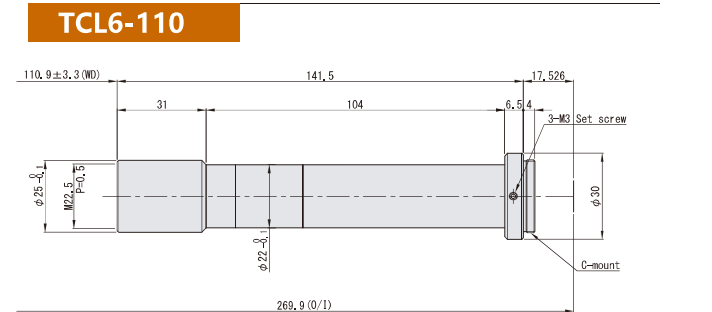
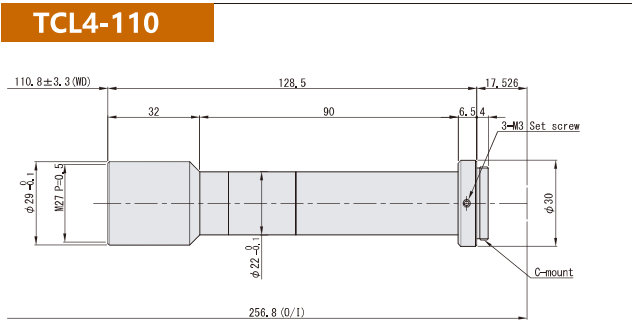
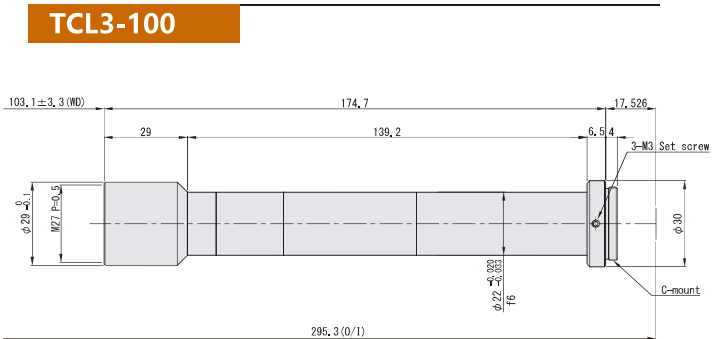
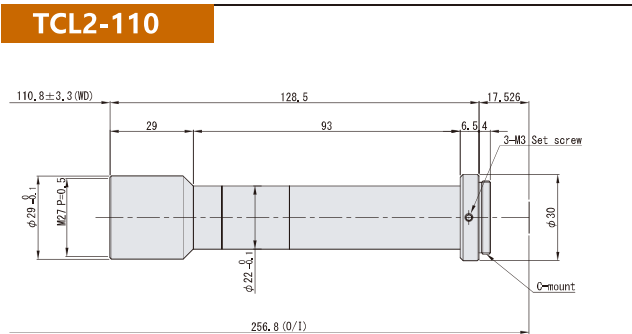
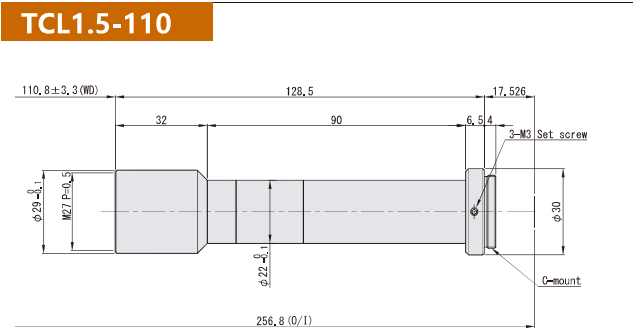
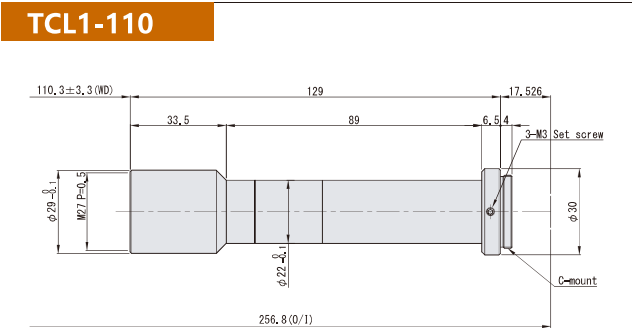
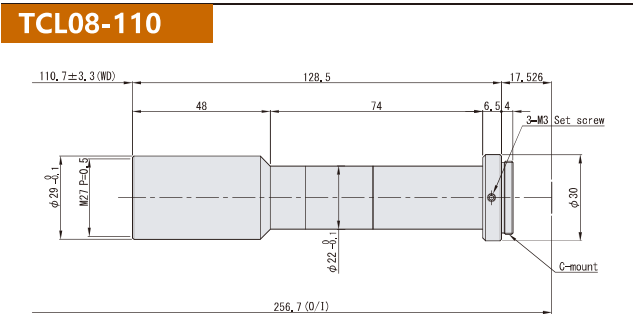
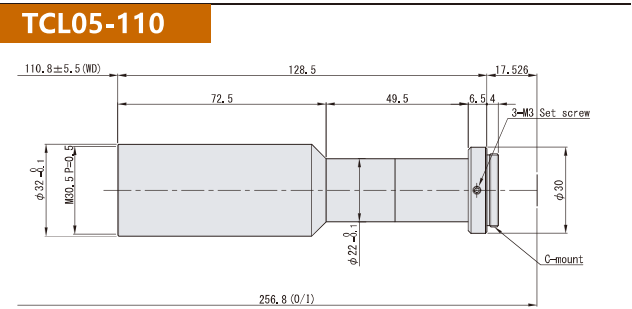


TCL6-65CO



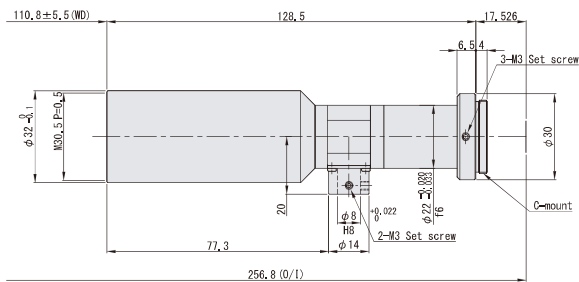
规格	TCL05-65CO	TCL08-65CO	TCL1-50CO	TCL1-65CO	TCL1.5-65CO	TCL2-65CO	TCL3-60CO	TCL4-65CO	TCL6-65CO
光学倍率	0.5x ±5 %	0.8x ±5 %	1.0x ±5 %	1.0x ±5 %	1.5x ±5 %	2.0x ±5 %	3.0x ±5 %	4.0x ±5 %	6.0x ±5 %
视野 (VxH)	2/3"	14.2 x 16.8 mm	8.9 x 10.5 mm	7.1 x 8.4 mm	7.1 x 8.4 mm	4.7 x 5.6 mm	3.6 x 4.2 mm	2.4 x 2.8 mm	1.8 x 1.4 mm
	1/2"	9.6 x 12.8 mm	6.0 x 8.0 mm	4.8 x 6.4 mm	4.8 x 6.4 mm	3.2 x 4.3 mm	2.4 x 3.2 mm	1.6 x 2.1 mm	1.2 x 1.6 mm
	1/3"	7.2 x 9.6 mm	4.5 x 6.0 mm	3.6 x 4.8 mm	3.6 x 4.8 mm	2.4 x 3.2 mm	1.8 x 2.4 mm	1.2 x 1.6 mm	0.9 x 1.2 mm
WD	75.3 mm ±2	70.3 mm ±2	53.3 mm ±3	68.8 mm ±2	65.0 mm ±2	65.0 mm ±2	59.8 mm ±2	65.0 mm ±2	65.8 mm ±2
物像间距离O/I	153.3 mm	154.8 mm	127.8 mm	163.2 mm	156.9 mm	162.7 mm	188.7 mm	187.8 mm	201.7 mm
实效F	9.4	9.6	9.9	9.9	11.8	13.6	20.5	17.9	27.0
NA	0.027	0.042	0.050	0.050	0.064	0.074	0.073	0.112	0.111
景深 允许偏差φ0.04mm	3.0 mm	1.2 mm	0.8 mm	0.8 mm	0.4 mm	0.3 mm	0.2 mm	0.09 mm	0.06 mm
TV失真 (2/3")	0.02 %	0.01 %	0.02 %	0.01 %	0.01 %	0.03 %	0.01 %	0.02 %	0.02 %
周边光亮 (Y=5.5)	94 %	98 %	99 %	99 %	100 %	98 %	99 %	85 %	84 %
适合芯片	2/3"	2/3"	2/3"	2/3"	2/3"	2/3"	2/3"	2/3"	2/3"
同轴照明方式	Built-in	Built-in	Built-in	Built-in	Built-in	Built-in	Built-in	Built-in	Built-in
滤镜口径	M 30.5 P = 0.5	M 22.5 P = 0.5		M 22.5 P = 0.5	M 22.5 P = 0.5	M 22.5 P = 0.5	M 22.5 P = 0.5	M 22.5 P = 0.5	M 22.5 P = 0.5
重量	66 g	62 g	52 g	64 g	64 g	62 g	76 g	84 g	92 g

WD:110mm

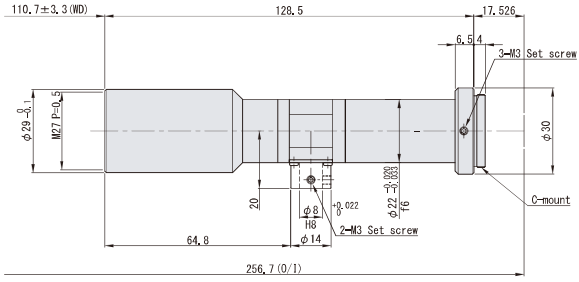


规格	TCL05-110	TCL08-110	TCL1-110	TCL1.5-110	TCL2-110	TCL3-100	TCL4-110	TCL6-110
光学倍率	0.5x ±5 %	0.8x ±5 %	1.0x ±5 %	1.5x ±5 %	2.0x ±5 %	3.0x ±5 %	4.0x ±5 %	6.0x ±5 %
视野 (VxH)	2/3"	14.2 x 16.8 mm	8.9 x 10.5 mm	7.1 x 8.4 mm	4.7 x 5.6 mm	3.6 x 4.2 mm	2.4 x 2.8 mm	1.8 x 2.1 mm
	1/2"	9.6 x 12.8 mm	6.0 x 8.0 mm	4.8 x 6.4 mm	3.2 x 4.3 mm	2.4 x 3.2 mm	1.6 x 2.1 mm	1.2 x 1.6 mm
	1/3"	7.2 x 9.6 mm	4.5 x 6.0 mm	3.6 x 4.8 mm	2.4 x 3.2 mm	1.8 x 2.4 mm	1.2 x 1.6 mm	0.9 x 1.2 mm
WD	110.8 mm ±5.5	110.7 mm ±3.3	110.3 mm ±3.3	110.8 mm ±3.3	110.8 mm ±3.3	103.1 mm ±3.3	110.8 mm ±3.3	110.9 mm ±3.3
物像间距离O/I	256.8 mm	256.7 mm	256.8 mm	256.8 mm	256.8 mm	295.3 mm	256.8 mm	269.9 mm
实效F	9.5	11.0	10.5	12.0	13.5	20.9	22.2	39.3
NA	0.026	0.036	0.048	0.063	0.074	0.072	0.090	0.076
景深 允许模糊直径0.04mm	3.0 mm	1.4 mm	0.8 mm	0.4 mm	0.3 mm	0.2 mm	0.1 mm	0.09 mm
TV失真 (2/3")	0.02 %	0.02 %	0.02 %	0.02 %	0.03 %	0.01 %	0.03 %	0.03 %
周边光亮 (Y=5.5)	98 %	99 %	99 %	99 %	95 %	99 %	87 %	87 %
适合芯片	2/3"	2/3"	2/3"	2/3"	2/3"	2/3"	2/3"	2/3"
同轴照明方式	—	—	—	—	—	—	—	—
滤镜口径	M 30.5 P = 0.5	M 27 P = 0.5	M 27 P = 0.5	M 27 P = 0.5	M 27 P = 0.5	M 27 P = 0.5	M 27 P = 0.5	M 22.5 P = 0.5
重量	92 g	92 g	92 g	84 g	88 g	110 g	90 g	90 g

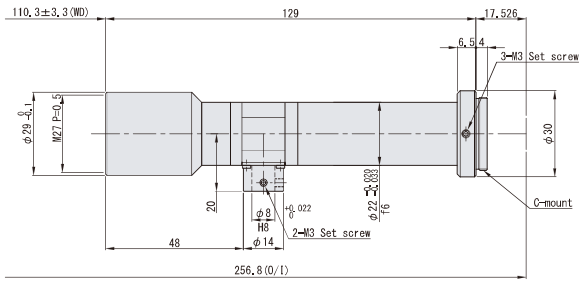
TCL05-110CO



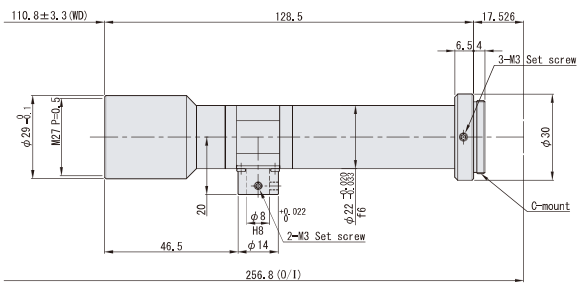
TCL08-110CO



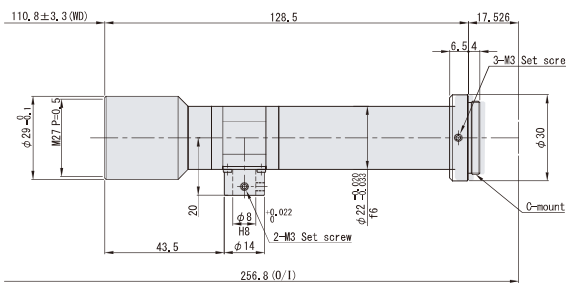
TCL1-110CO



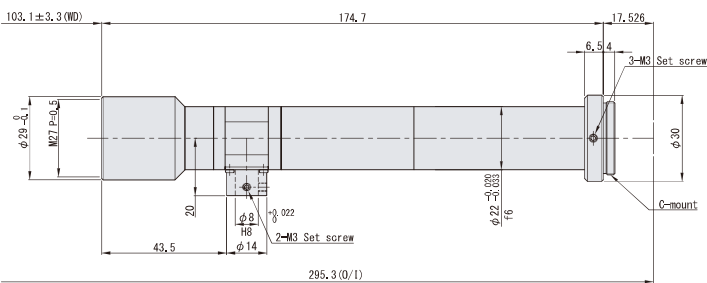
TCL1.5-110CO



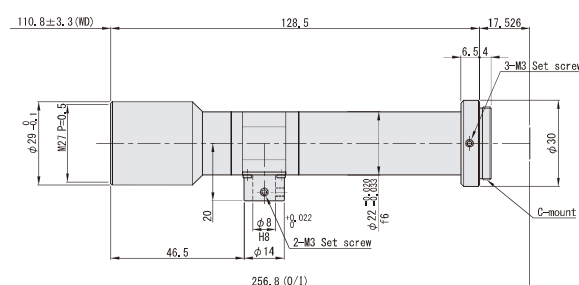
TCL2-110CO



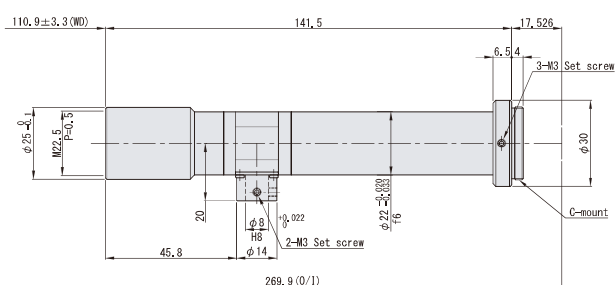
TCL3-100CO



TCL4-110CO



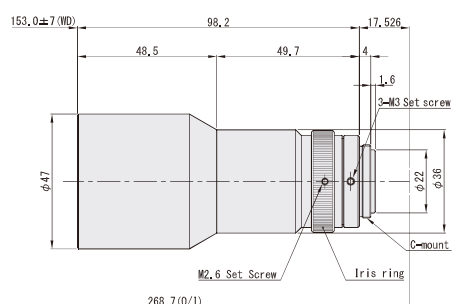
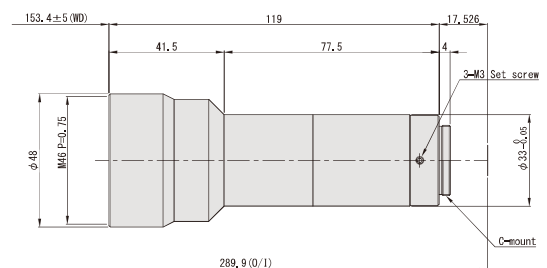
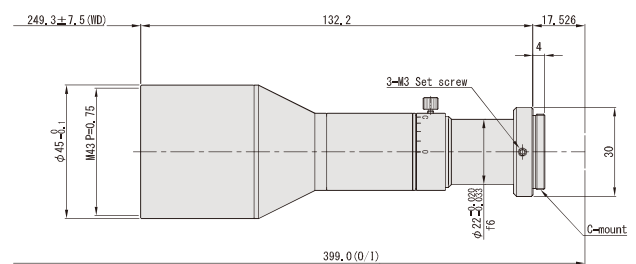
TCL6-110CO



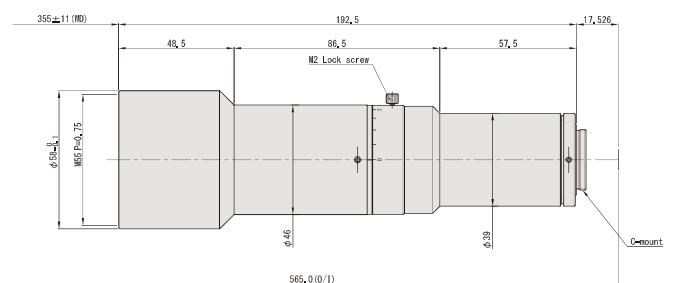
规格	TCL05-110CO	TCL08-110CO	TCL1-110CO	TCL1.5-110CO	TCL2-110CO	TCL3-100CO	TCL4-110CO	TCL6-110CO
光学倍率	0.5x ±5 %	0.8x ±5 %	1.0x ±5 %	1.5x ±5 %	2.0x ±5 %	3.0x ±5 %	4.0x ±5 %	6.0x ±5 %
视野 (VxH)	2/3"	14.2 x 16.8 mm	8.9 x 10.5 mm	7.1 x 8.4 mm	4.7 x 5.6 mm	3.6 x 4.2 mm	2.4 x 2.8 mm	1.8 x 2.1 mm
	1/2"	9.6 x 12.8 mm	6.0 x 8.0 mm	4.8 x 6.4 mm	3.2 x 4.3 mm	2.4 x 3.2 mm	1.6 x 2.1 mm	1.2 x 1.1 mm
	1/3"	7.2 x 9.6 mm	4.5 x 6.0 mm	3.6 x 4.8 mm	2.4 x 3.2 mm	1.8 x 2.4 mm	1.2 x 1.6 mm	0.9 x 1.2 mm
WD	110.8 mm ±5.5	110.7 mm ±3.3	110.3 mm ±3.3	110.8 mm ±3.3	110.8 mm ±3.3	103.1 mm ±3.3	110.8 mm ±3.3	110.9 mm ±3.3
物像间距离O/I	256.8 mm	256.7 mm	256.8 mm	256.8 mm	256.8 mm	295.3 mm	256.8 mm	269.9 mm
实效F	9.5	11.0	10.5	12.0	13.5	20.9	22.2	39.3
NA	0.026	0.036	0.048	0.063	0.074	0.072	0.090	0.076
景深 允许误差值e0.04mm	3.0 mm	1.4 mm	0.8 mm	0.4 mm	0.3 mm	0.2 mm	0.1 mm	0.09 mm
TV失真 (2/3")	0.02 %	0.02 %	0.02 %	0.02 %	0.03 %	0.01 %	0.03 %	0.03 %
周边光亮 (Y=5.5)	98 %	99 %	99 %	99 %	95 %	99 %	87 %	87 %
适合芯片	2/3"	2/3"	2/3"	2/3"	2/3"	2/3"	2/3"	2/3"
同轴照明方式	Built-in	Built-in	Built-in	Built-in	Built-in	Built-in	Built-in	Built-in
滤镜口径	M 30.5 P = 0.5	M 27 P = 0.5	M 27 P = 0.5	M 27 P = 0.5	M 27 P = 0.5	M 27 P = 0.5	M 27 P = 0.5	M 22.5 P = 0.5
重量	98 g	98 g	96 g	88 g	94 g	114 g	96 g	94 g

TML Series

TML025-150S

**TML03-150****TML1-250**

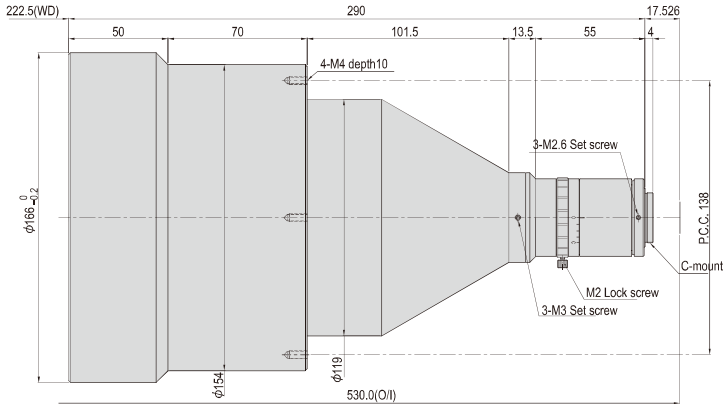
TML1-355

48

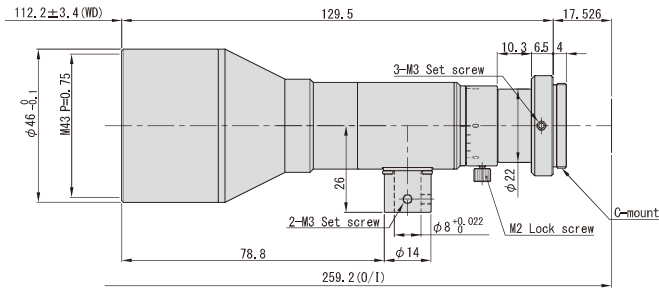
TFL Series 1" 1/1.2"

4~9百万像素对应1"相机芯片远心镜头，通过可变光圈将物体的景深和对比度调节至平衡，有直筒式和带同轴光的二种商品阵容，画面全体采用低失真设计，紧凑型模式。

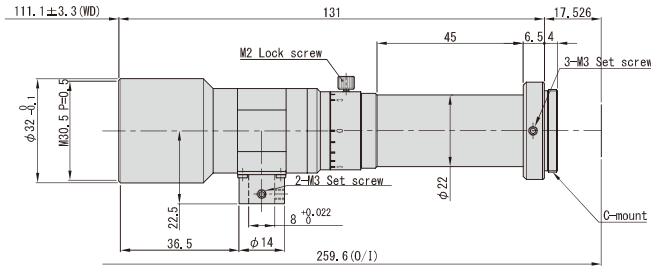
TFL011-220



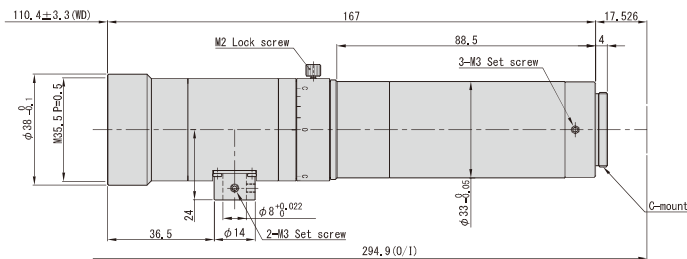
TFL05-110CO



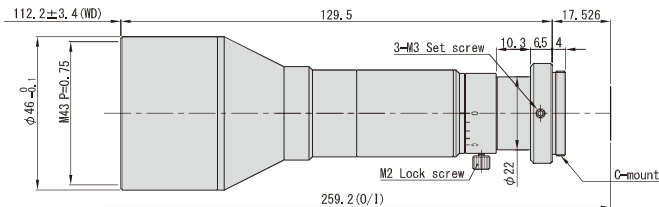
TFL-110CO



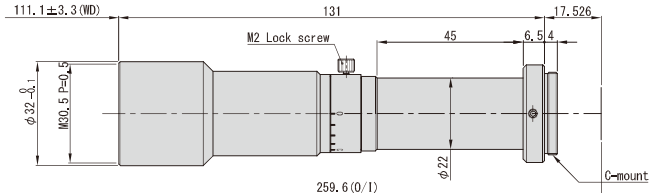
TFL2-110CO



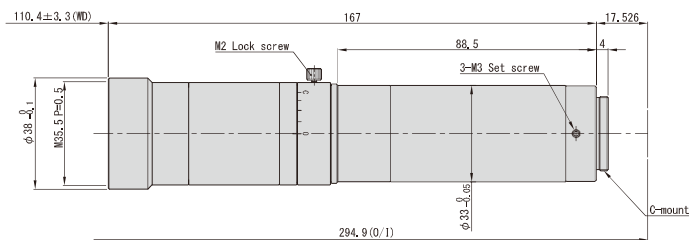
TFL05-110



TFL1-110

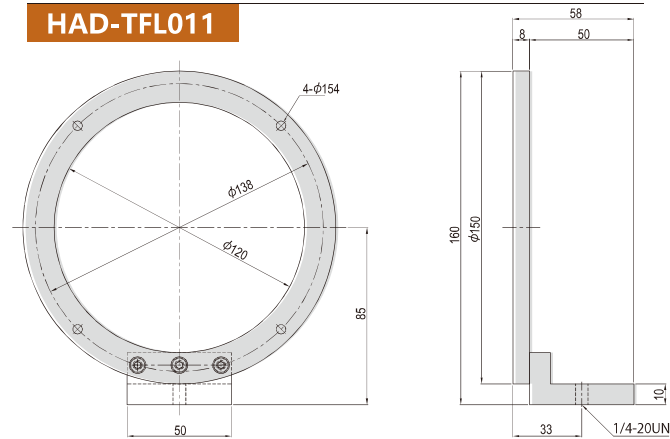


TFL2-110



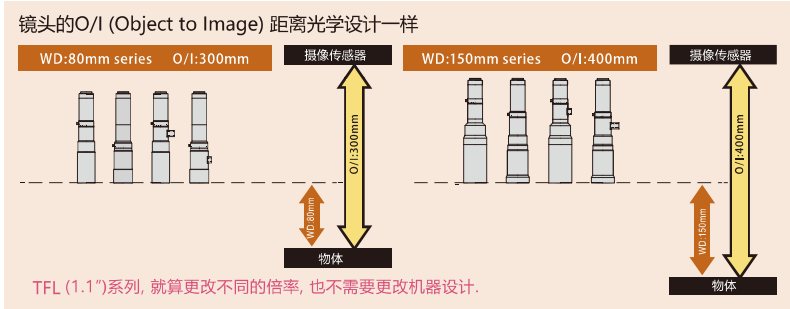
HAD-TFL011 用固定支架

HAD-TFL011



规格	TFL011-220	TFL05-110	TFL05-110CO	TFL1-110	TFL-110CO	TFL2-110	TFL2-110CO
光学倍率	0.11x $\pm$ 5 %	0.5x $\pm$ 5 %	0.5x $\pm$ 5 %	1.0x $\pm$ 5 %	1.0x $\pm$ 5 %	2.0x $\pm$ 5 %	2.0x $\pm$ 5 %
视野 (VxH)	1"	102.4 x 102.4 mm	22.5 x 22.5 mm	22.5 x 22.5 mm	11.3 x 11.3 mm	5.6 x 5.6 mm	5.6 x 5.6 mm
	2/3"	64.5 x 76.4 mm	14.2 x 16.8 mm	14.2 x 16.8 mm	7.1 x 8.4 mm	3.6 x 4.2 mm	3.6 x 4.2 mm
	1/3"	43.6 x 58.2 mm	9.6 x 12.8 mm	9.6 x 12.8 mm	4.8 x 6.4 mm	2.4 x 3.2 mm	2.4 x 3.2 mm
WD	222.5 mm	112.2 mm $\pm$ 3.4	112.2 mm $\pm$ 3.4	111.1 mm $\pm$ 3.3	111.1 mm $\pm$ 3.3	110.4 mm $\pm$ 3.3	110.4 mm $\pm$ 3.3
物像间距离O/I	530.0 mm	259.2 mm	259.2 mm	259.6 mm	259.6 mm	294.9 mm	294.9 mm
实效F*光圈全开	5.6	10.0	10.0	10.5	10.5	10.0	10.0
NA	0.010	0.025	0.025	0.048	0.048	0.100	0.100
景深 允许模糊度 $\phi 0.04$ mm	37.0 mm	3.2 mm	3.2 mm	0.8 mm	0.8 mm	0.2 mm	0.2 mm
TV失真 (1')	0.01 %	-0.02 %	-0.02 %	0.02 %	0.02 %	0.02 %	0.02 %
适合芯片	1"	1"	1"	1"	1"	1"	1"
同轴照明方式	—	—	Built-in	—	Built-in	—	Built-in
滤镜口径	—	M 43 P = 0.75	M 43 P = 0.75	M 30.5 P = 0.5	M 30.5 P = 0.5	M 35.5 P = 0.5	M 35.5 P = 0.5
重量	2460 g	146 g	155 g	124 g	128 g	235 g	240 g

TFL Series



Technical drawing of the 100mm lens assembly. The drawing shows a side view of the lens with various dimensions and callouts. The total length is 400,0 (0/1). The front element has a diameter of 52,0 ± 0,4 (M10). The front element is 19 mm thick. The distance between the front and rear elements is 76,5 mm. The rear element has a diameter of 52,0 ± 0,1. The distance between the rear element and the lens mount is 135,0 mm. The lens mount has a diameter of 17,526 mm. The lens mount is secured with a 3-M3 Set screw and a M2 Lock screw. The lens mount is labeled C-MOUNT.

Technical drawing of the O-MOUNT assembly. The drawing shows a side view of the assembly with the following dimensions and components:

- Overall length: 400,0 (0/1)
- Dimensions from the left end:
 - 19
 - 76,5
 - 230,5
 - 135,0
 - 17,526
- Dimensions from the right end:
 - 17,526
 - 175,5
 - 55,0
 - 19
 - 34
- Thread specifications:
 - M5 (2x) 0,75
 - M2 Lock screw
 - 2-M3 Set screw
 - 2-M3 Set screw
- Other specifications:
 - Ø 55⁺⁰₋₀
 - Ø 16^{+0,022}₋₀
 - Ø 14
 - O-MOUNT

Technical drawing of the C-Mount adapter showing dimensions and assembly details. The drawing includes the following dimensions and labels:

- Overall length: $150,0 \pm 4,5$ (M0)
- Distance from front face to start of thread: 232,5
- Thread specification: M40 $\pm 0,75$
- Distance from front face to center of C-mount: 400,0 (0/1)
- Distance from center of C-mount to center of set screw: 31,5
- Distance from center of set screw to end face: 10,5
- End face thickness: 4
- Assembly details: M2 Lock screw, 3-M3 SET SCREW, C-MOUNT
- Distance from front face to center of C-mount: $293,5 \pm 0,0$

[illegible]

Technical drawing of a C-mount adapter with dimensions in mm. The drawing shows a side view of the adapter with various diameters and lengths. Key dimensions include: total length 175.5, mounting flange diameter 15.0, mounting flange thickness 4.0, main body diameter 17.5, main body length 144.5, and a central section with an M2 lock screw. The central section has a diameter of 10.0 and a length of 70.5. The adapter is labeled 'C-MOUNT' and '3-M2 Set screw'.

Technical drawing of the front view of a C-mount lens assembly. The drawing shows a cylindrical lens with various diameters and lengths. Key dimensions include: total length 150.0 ± 4.5 (ND), front diameter 14.0 ± 0.75, front flange diameter 17.5, main body diameter 14.5, rear flange diameter 17.5, and rear mounting diameter 17.526. Mounting features include an M2 lock screw, a 2-M3 set screw, and a C-MOUNT interface. A detailed view of the rear flange shows a diameter of 14.0 ± 0.02 and a 2-M3 set screw.

Technical drawing of the C-MOUNT showing dimensions and features:

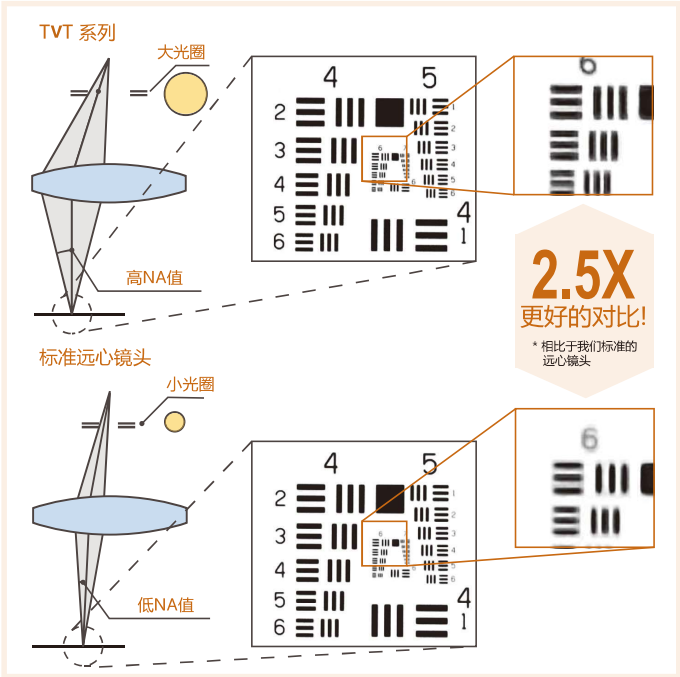
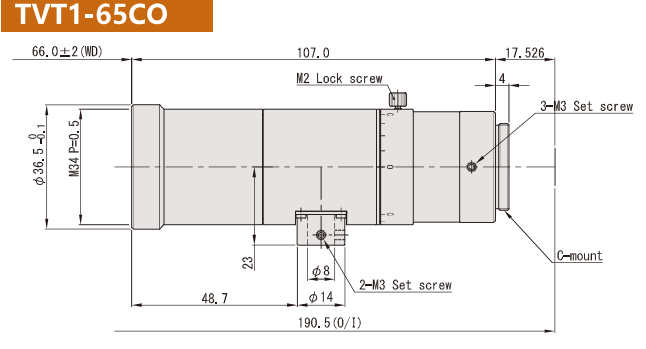
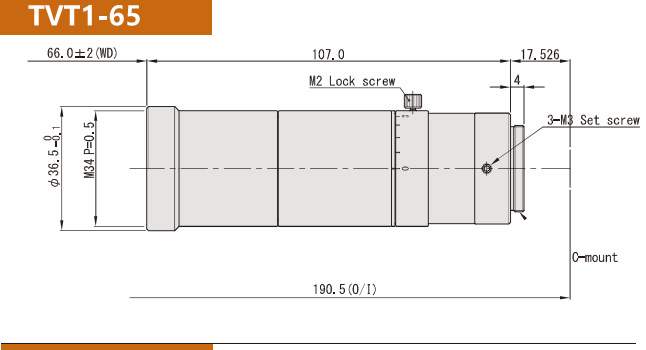
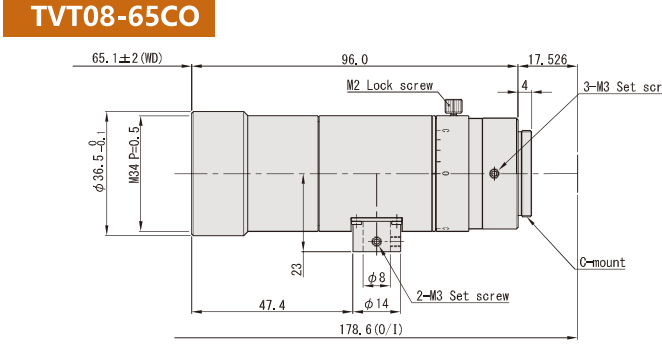
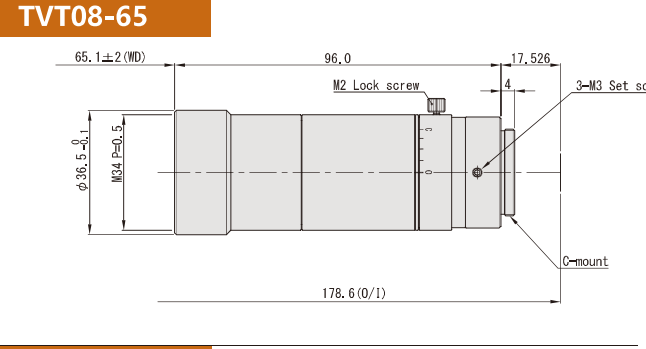
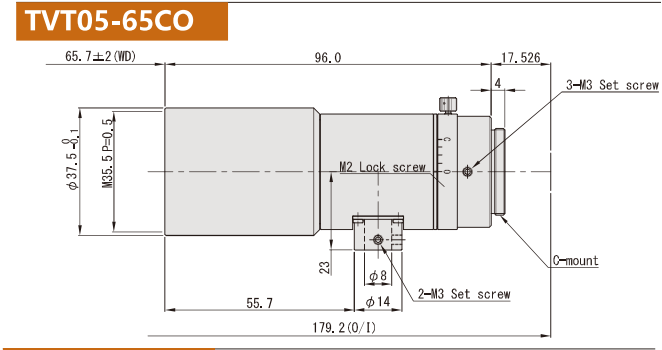
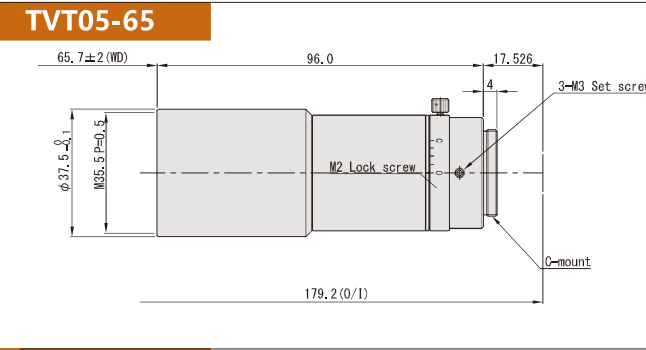
- Overall length: $152,0 \pm 4,6(000)$
- Distance from front face to start of lock screw: $45,5$
- Distance between lock screw and set screw: 75
- Distance from lock screw to end face: $230,5$
- Distance from set screw to end face: $110,0$
- End face thickness: 4
- Front face diameter: $\varnothing 55,0$
- Front face thread: $M52 P \pm 0,75$
- Lock screw: $M2$ Lock screw
- Set screw: $3-M3$ Set screw
- End face thread: $\varnothing 33,0$
- Feature: C-MOUNT
- Bottom text: 400 0(0/1)

[illegible]

规格		TFL05-150	TFL05-150CO	TFL08-150	TFL08-150CO	TFL1-150	TFL1-150CO	TFL2-150	TFL2-150CO
光学倍率		0.5×±5%	0.5×±5%	0.8×±5%	0.8×±5%	1.0×±5%	1.0×±5%	2.0×±5%	2.0×±5%
视 野 (VxH)	1.1"	20.6×28.2 mm	20.6×28.2 mm	12.9×17.6 mm	12.9×17.6 mm	10.3×14.1 mm	10.3×14.1 mm	5.2×7.1 mm	5.2×7.1 mm
	1"	22.5×22.5 mm	22.5×22.5 mm	14.1×14.1 mm	14.1×14.1 mm	11.3×11.3 mm	11.3×11.3 mm	5.6×5.6 mm	5.6×5.6 mm
	2/3"	14.2×16.8 mm	14.2×16.8 mm	8.9×10.5 mm	8.9×10.5 mm	7.1×8.4 mm	7.1×8.4 mm	3.6×4.2 mm	3.6×4.2 mm
WD		152.0mm±4.6	152.0mm±4.6	150.0mm±4.5	150.0mm±4.5	150.0mm±4.5	150.0mm±4.5	152.0mm±4.6	152.0mm±4.6
物像间距离O/I		400.0mm	400.0mm	400.0mm	400.0mm	400.0mm	400.0mm	400.0mm	400.0mm
实效F*光圈全开		7.5	7.5	7.5	7.5	7.5	7.5	9.2	9.2
NA		0.033	0.033	0.053	0.053	0.067	0.067	0.109	0.109
景深 允许值乱值@0.04mm		2.4mm	2.4mm	0.9mm	0.9mm	0.6mm	0.6mm	0.2mm	0.2mm
TV失真 (1°)		0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	-0.01%	-0.01%
适合芯片		1.1"	1.1"	1.1"	1.1"	1.1"	1.1"	1.1"	1.1"
同轴照明方式		—	Built-in	—	Built-in	—	Built-in	—	Built-in
滤镜口径		M55 P=0.75	M55 P=0.75	M49 P=0.75	M49 P=0.75	M49 P=0.75	M49 P=0.75	M52 P=0.75	M52 P=0.75
重量		500 g	500 g	480 g	480 g	400 g	400 g	600 g	600 g

TVT Series 2/3" 1/1.8"

可完全发挥出1.67um相机像元的分解能力。
适合高精度要求的检测项目。



规格		TVT05-65	TVT05-65CO	TVT08-65	TVT08-65CO	TVT1-65	TVT1-65CO
光学倍率		0.5x ±5 %	0.5x ±5 %	0.8x ±5 %	0.8x ±5 %	1.0x ±5 %	1.0x ±5 %
视野 (VxH)	2/3"	14.2 x 16.8 mm	14.2 x 16.8 mm	8.9 x 10.5 mm	8.9 x 10.5 mm	7.1 x 8.4 mm	7.1 x 8.4 mm
	1/2"	9.6 x 12.8 mm	9.6 x 12.8 mm	6.0 x 8.0 mm	6.0 x 8.0 mm	4.8 x 6.4 mm	4.8 x 6.4 mm
	1/3"	7.2 x 9.6 mm	7.2 x 9.6 mm	4.5 x 6.0 mm	4.5 x 6.0 mm	3.6 x 4.8 mm	3.6 x 4.8 mm
WD		65.7 mm ±2	65.7 mm ±2	65.1 mm ±2	65.1 mm ±2	66.0 mm ±2	66.0 mm ±2
物像间距离O/I		179.2 mm	179.2 mm	178.6 mm	178.6 mm	190.5 mm	190.5 mm
实效F *光圈全开		4.5	4.5	4.5	4.5	4.5	4.5
NA		0.056	0.056	0.089	0.089	0.111	0.111
景深 允许模糊圈0.04mm		1.4 mm	1.4 mm	0.6 mm	0.6 mm	0.4 mm	0.4 mm
TV失真 (2/3")		0.00%	0.00%	0.00 %	0.00 %	0.00 %	0.00 %
适合芯片		2/3"	2/3"	2/3"	2/3"	2/3"	2/3"
同轴照明方式		—	Built-in	—	Built-in	—	Built-in
滤镜口径		M 35.5 P = 0.5	M 35.5 P = 0.5	M 34 P = 0.5	M 34 P = 0.5	M 34 P = 0.5	M 34 P = 0.5
重量		205 g	205 g	200 g	200 g	215 g	215 g