



Maximum support 1.1inch (18.5mm) target surface camera

- It can support up to 1.1" industrial phase
- Bilateral telecentric design, ultra-high telecentricity, can improve the measurement accuracy by several times
- Optional iris diaphragm can effectively balance depth of field and resolution
- Can provide specially matched parallel light sources to improve the uniformity of illumination
- Some lenses support internal L90 steering, saving installation space
- This series of lenses have been precisely calibrated and can provide a comprehensive test report

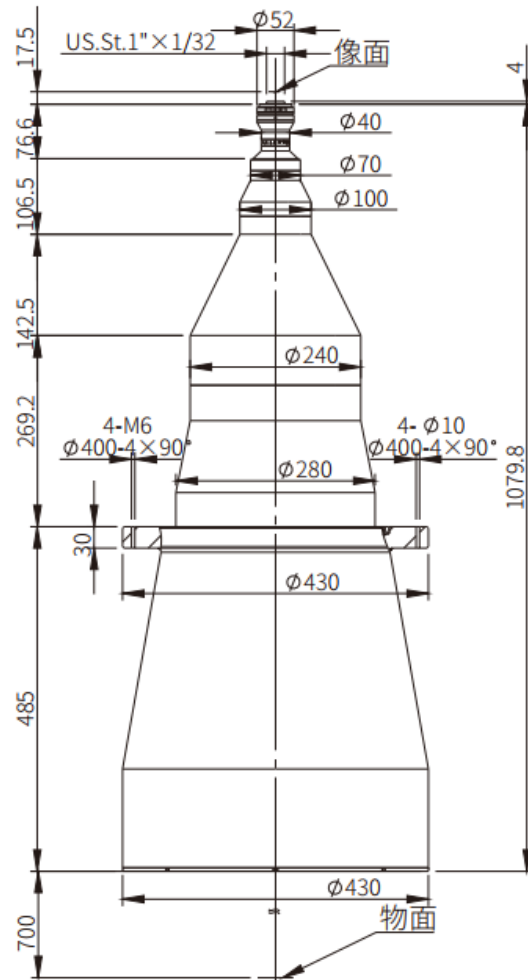


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Model	Chip Type	Optical structure	WD (mm)	Mag (X)	Chip length	Chip width	diagonal	Long object FOV	Wide FOV	Total length of lens (mm)	Maximum Diameter (mm)	O/I (mm)	Lens interface	Optical distortion (%)	Resolution (μm)	aperture	DOF (mm)	Image field (mm)	Telecentricity (°)	Object field φ (mm)
XF-PTL39019-C	1.1"	Double Telecentric	700	0.0475	14.2	10.4	17.6	298.9	218.9	1079.8	430	1,797.30	C	0.045	90.41	F6.5	313.6	18.5	0.04	389.5
XF-PTL35019-C	1.1"	Double Telecentric	540	0.0529	14.2	10.4	17.6	268.4	196.6	859.5	376	1417	C	0.042	81.1	F6.5	252.7	18.5	0.05	349.7
XF-PTL31019-C	1.1"	Double Telecentric	500	0.0597	14.2	10.4	17.6	237.9	174.2	787.3	340	1304.8	C	0.043	71.86	F6.5	199.6	18.5	0.04	309.9
XF-PTL26819-C	1.1"	Double Telecentric	410	0.0691	14.2	10.4	17.6	205.5	150.5	721	300	1148.5	C	0.042	62.09	F6.5	147.4	18.5	0.04	267.7
XF-PTL23819-C	1.1"	Double Telecentric	410	0.0777	14.2	10.4	17.6	182.8	133.8	662.4	270	1089.9	C	0.026	55.21	F6.5	116.9	18.5	0.04	238.1
XF-PTL19519-C	1.1"	Double Telecentric	400	0.095	14.2	10.4	17.6	149.5	109.5	514.3	222	931.8	C	0.045	45.16	F6.5	79.4	18.5	0.04	194.7
XF-PTL18219-C	1.1"	Double Telecentric	398	0.102	14.2	10.4	17.6	139.2	102	487.8	210	903.3	C	0.045	42.2	F6.5	69.5	18.5	0.04	181.4
XF-PTL15219-C	1.1"	Double Telecentric	320	0.122	14.2	10.4	17.6	116.4	85.2	440	180	777.5	C	0.04	35.17	F6.5	48.2	18.5	0.04	151.6
XF-PTL13719-C	1.1"	Double Telecentric	280	0.135	14.2	10.4	17.6	105.2	77	400.9	166	698.4	C	0.038	31.73	F6.5	39.4	18.5	0.04	137
XF-PTL12219-C	1.1"	Double Telecentric	260	0.152	14.2	10.4	17.6	93.4	68.4	392.9	166	670.4	C	0.027	28.28	F6.5	31.2	18.5	0.04	121.7
XF-PTL11019-C	1.1"	Double Telecentric	250	0.168	14.2	10.4	17.6	84.5	61.9	354.2	130	621.7	C	0.017	25.58	F6.5	25.4	18.5	0.04	110.1
XF-PTL09219-C	1.1"	Double Telecentric	250	0.202	14.2	10.4	17.6	70.3	51.5	305	120	572.5	C	0.017	21.25	F6.5	17.5	18.5	0.04	91.6
XF-PTL08019-C	1.1"	Double Telecentric	180	0.231	14.2	10.4	17.6	61.5	45	280.2	104	477.7	C	0.02	18.55	F6.5	13.4	18.5	0.03	80.1
XF-PTL06519-C	1.1"	Double Telecentric	160	0.284	14.2	10.4	17.6	50	36.6	245.6	90	423.1	C	0.014	15.1	F6.5	8.8	18.5	0.03	65.1
XF-PTL05519-C-VI	1.1"	Double Telecentric	138	0.336	14.2	10.4	17.6	42.3	31	229.9	79	385.4	C	0.035	12.8-70.23	F6.5-F35.8	6.3-35.2	18.5	0.04	55.1
XF-PTL04519-C-VI	1.1"	Double Telecentric	120	0.411	14.2	10.4	17.6	34.5	25.3	187	70	324.5	C	0.02	10.4-57.47	F6.5-F35.8	4.2-23.6	18.5	0.03	45
XF-PTL03719-C-VI	1.1"	Double Telecentric	110	0.504	14.2	10.4	17.6	28.2	20.6	154.8	70	282.3	C	0.026	8.5-46.82	F6.5-F35.8	2.8-15.6	18.5	0.03	36.7

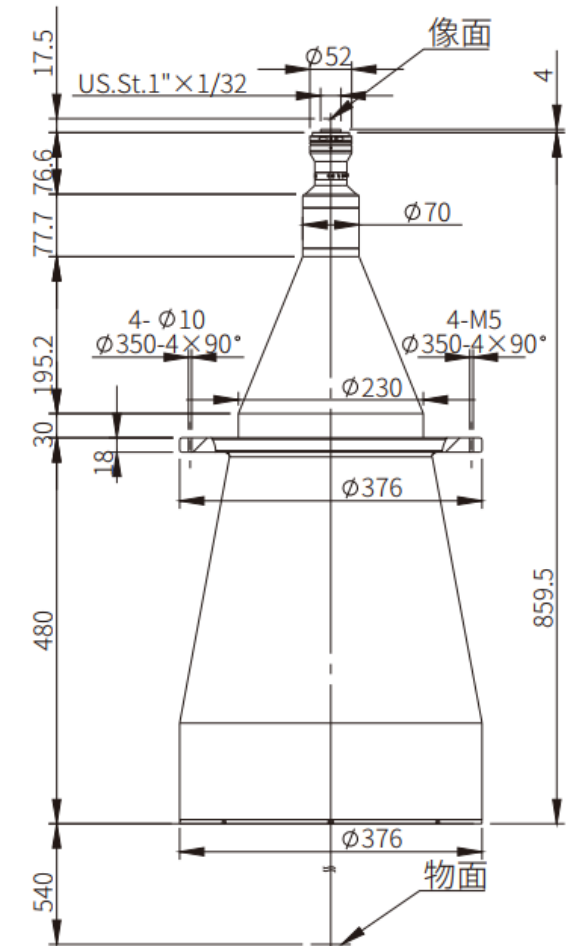
XF-PTL39019-C

Chip type	1.1"
Chip length	14.2
Chip width	10.4
diagonal	17.6
Long object field of view	298.9
Wide field of view	218.9
Total length of lens (mm)	1079.8
Maximum diameter (mm)	430
O/I (mm)	1,797.30
Lens interface	C Mount
Optical distortion (%)	0.045
Resolution (μm)	90.41
aperture	F6.5
Depth of field (mm)	313.6
Image field (mm)	18.5
Telecentric design value (°)	0.04
Object field φ (mm)	389.5
Working distance (mm)	700
Optical structure	Double telecentric
Magnification (X)	0.0475



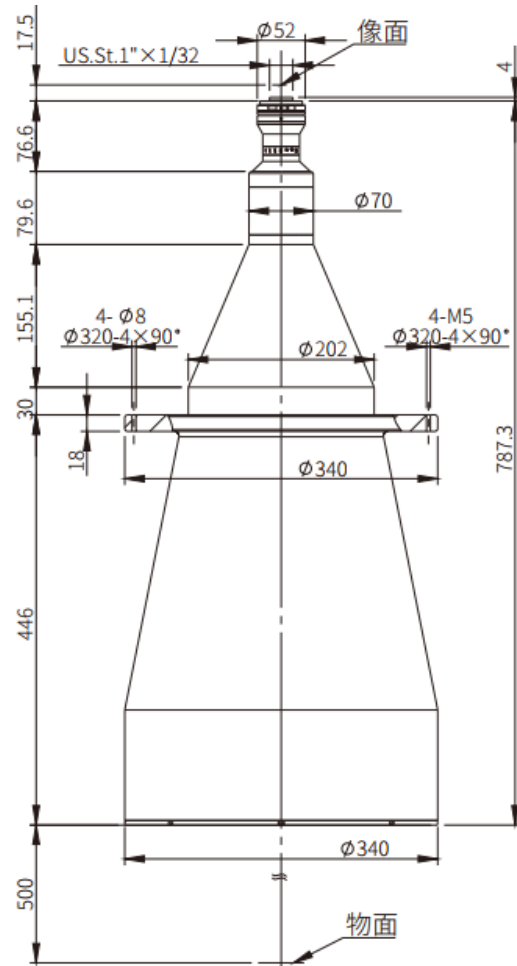
XF-PTL35019-C

Chip type	1.1"
Chip length	14.2
Chip width	10.4
diagonal	17.6
Long object field of view	268.4
Wide field of view	196.6
Total length of lens (mm)	859.5
Maximum diameter (mm)	376
O/I (mm)	1417
Lens interface	C Mount
Optical distortion (%)	0.042
Resolution (μm)	81.1
aperture	F6.5
Depth of field (mm)	252.7
Image field (mm)	18.5
Telecentric design value (°)	0.05
Object field φ (mm)	349.7
Working distance (mm)	540
Optical structure	Double telecentric
Magnification (X)	0.0529



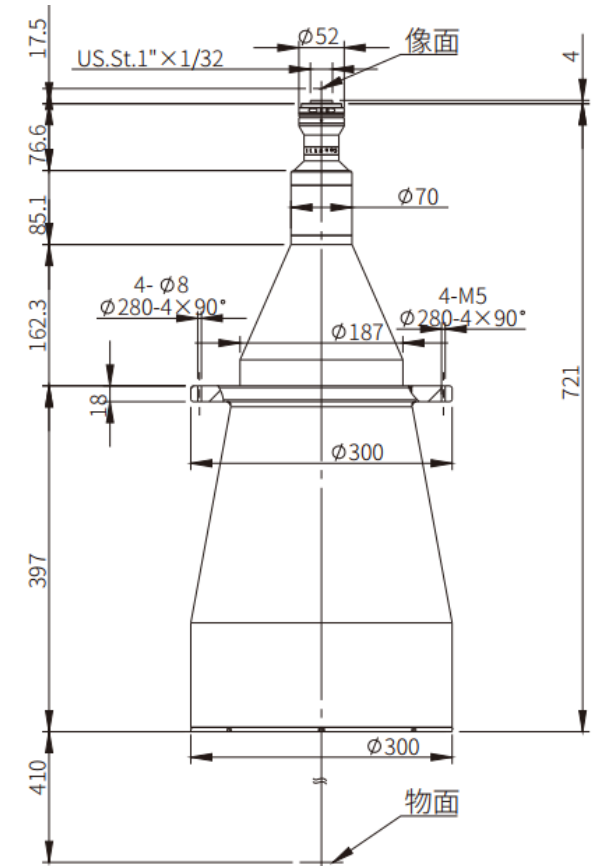
XF-PTL31019-C

Chip type	1.1"
Chip length	14.2
Chip width	10.4
diagonal	17.6
Long object field of view	237.9
Wide field of view	174.2
Total length of lens (mm)	787.3
Maximum diameter (mm)	340
O/I (mm)	1304.8
Lens interface	C Mount
Optical distortion (%)	0.043
Resolution (μm)	71.86
aperture	F6.5
Depth of field (mm)	199.6
Image field (mm)	18.5
Telecentric design value (°)	0.04
Object field φ (mm)	309.9
Working distance (mm)	500
Optical structure	Double telecentric
Magnification (X)	0.0597



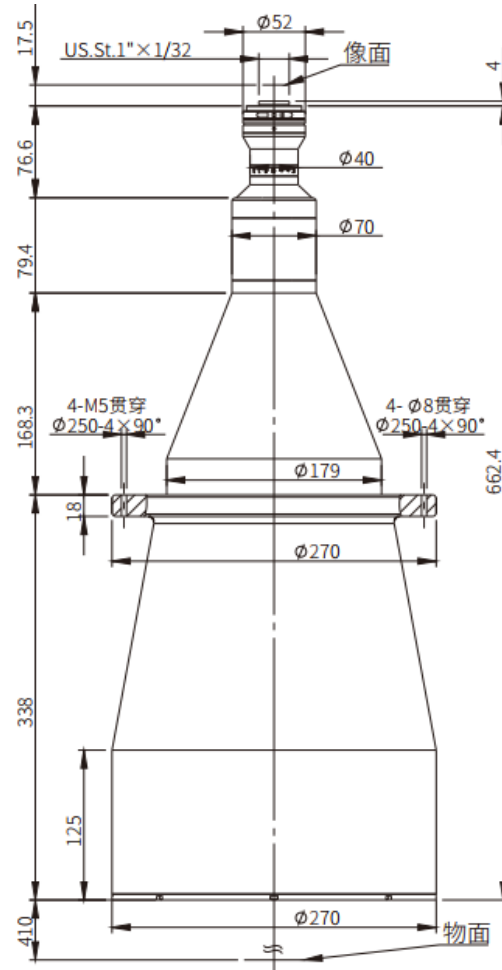
XF-PTL26819-C

Chip type	1.1"
Chip length	14.2
Chip width	10.4
diagonal	17.6
Long object field of view	205.5
Wide field of view	150.5
Total length of lens (mm)	721
Maximum diameter (mm)	300
O/I (mm)	1148.5
Lens interface	C Mount
Optical distortion (%)	0.042
Resolution (μm)	62.09
aperture	F6.5
Depth of field (mm)	147.4
Image field (mm)	18.5
Telecentric design value (°)	0.04
Object field φ (mm)	267.7
Working distance (mm)	410
Optical structure	Double telecentric
Magnification (X)	0.0691



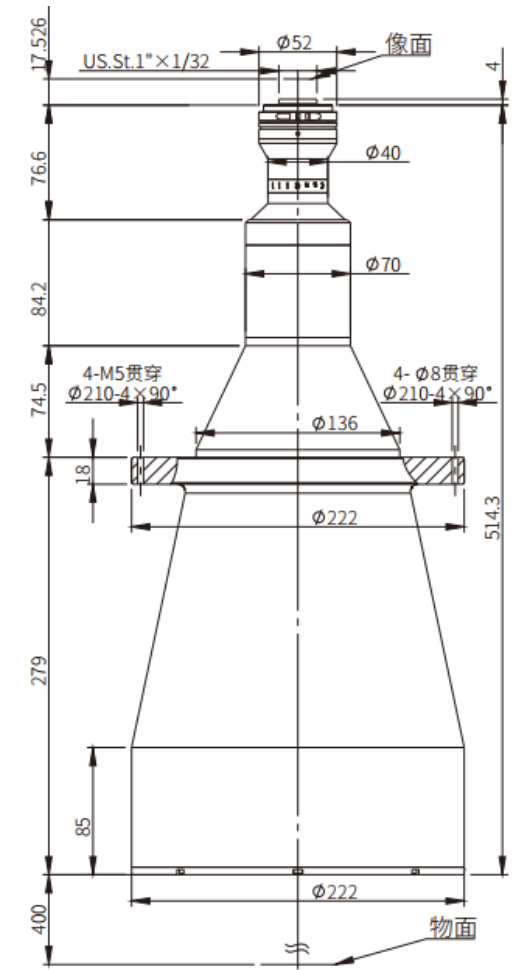
XF-PTL23819-C

Chip type	1.1"
Chip length	14.2
Chip width	10.4
diagonal	17.6
Long object field of view	182.8
Wide field of view	133.8
Total length of lens (mm)	662.4
Maximum diameter (mm)	270
O/I (mm)	1089.9
Lens interface	C Mount
Optical distortion (%)	0.026
Resolution (μm)	55.21
aperture	F6.5
Depth of field (mm)	116.9
Image field (mm)	18.5
Telecentric design value (°)	0.04
Object field φ (mm)	238.1
Working distance (mm)	410
Optical structure	Double telecentric
Magnification (X)	0.0777



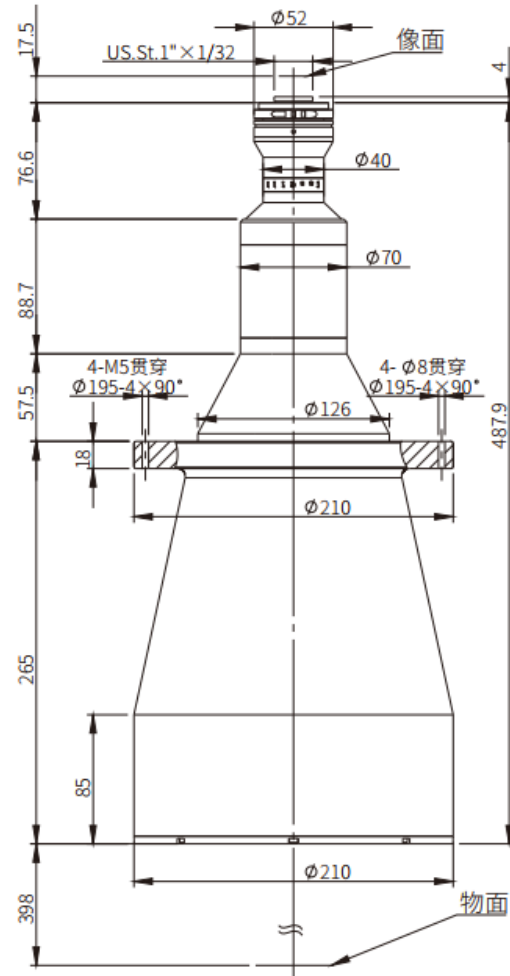
XF-PTL19519-C

Chip type	1.1"
Chip length	14.2
Chip width	10.4
diagonal	17.6
Long object field of view	149.5
Wide field of view	109.5
Total length of lens (mm)	514.3
Maximum diameter (mm)	222
O/I (mm)	931.8
Lens interface	C Mount
Optical distortion (%)	0.045
Resolution (μm)	45.16
aperture	F6.5
Depth of field (mm)	79.4
Image field (mm)	18.5
Telecentric design value (°)	0.04
Object field φ (mm)	194.7
Working distance (mm)	400
Optical structure	Double telecentric
Magnification (X)	0.095



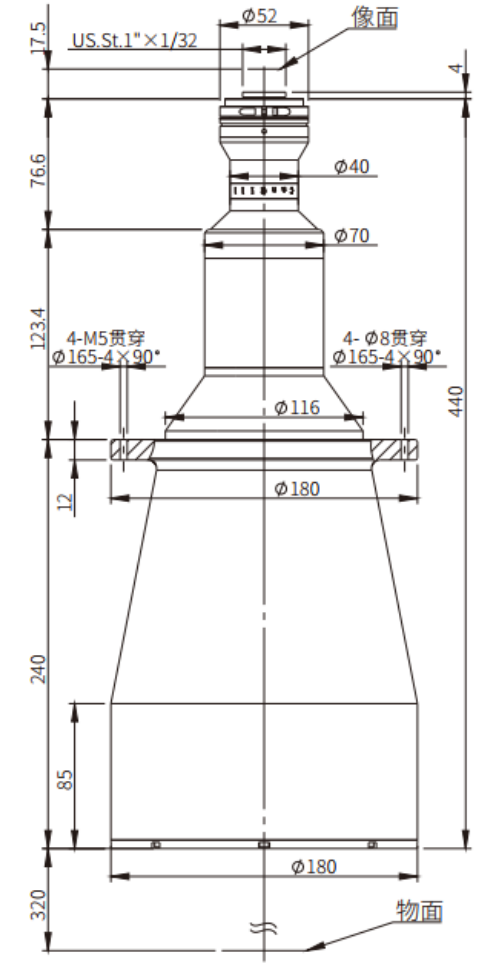
XF-PTL18219-C

Chip type	1.1"
Chip length	14.2
Chip width	10.4
diagonal	17.6
Long object field of view	139.2
Wide field of view	102
Total length of lens (mm)	487.8
Maximum diameter (mm)	210
O/I (mm)	903.3
Lens interface	C Mount
Optical distortion (%)	0.045
Resolution (μm)	42.2
aperture	F6.5
Depth of field (mm)	69.5
Image field (mm)	18.5
Telecentric design value (°)	0.04
Object field φ (mm)	181.4
Working distance (mm)	398
Optical structure	Double telecentric
Magnification (X)	0.102



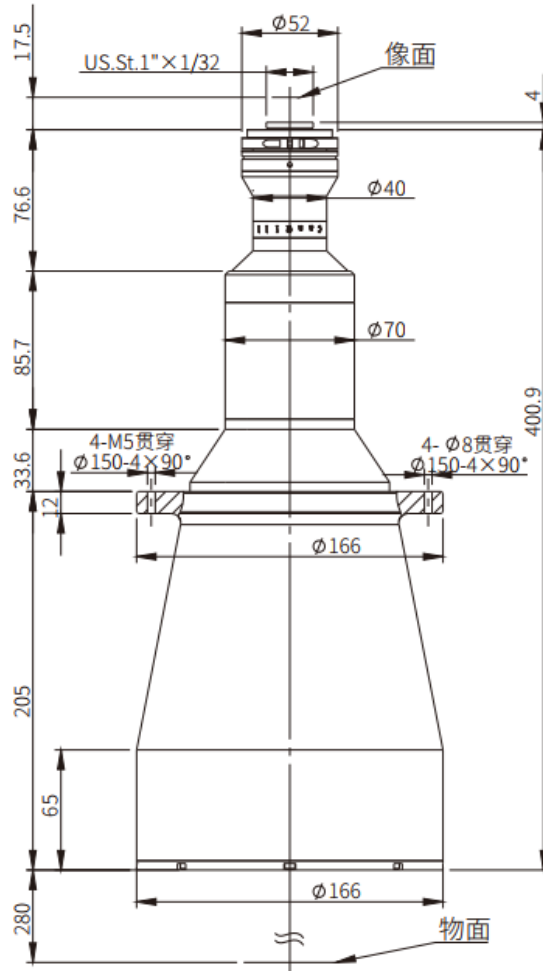
XF-PTL15219-C

Chip type	1.1"
Chip length	14.2
Chip width	10.4
diagonal	17.6
Long object field of view	116.4
Wide field of view	85.2
Total length of lens (mm)	440
Maximum diameter (mm)	180
O/I (mm)	777.5
Lens interface	C Mount
Optical distortion (%)	0.04
Resolution (μm)	35.17
aperture	F6.5
Depth of field (mm)	48.2
Image field (mm)	18.5
Telecentric design value (°)	0.04
Object field φ (mm)	151.6
Working distance (mm)	320
Optical structure	Double telecentric
Magnification (X)	0.122



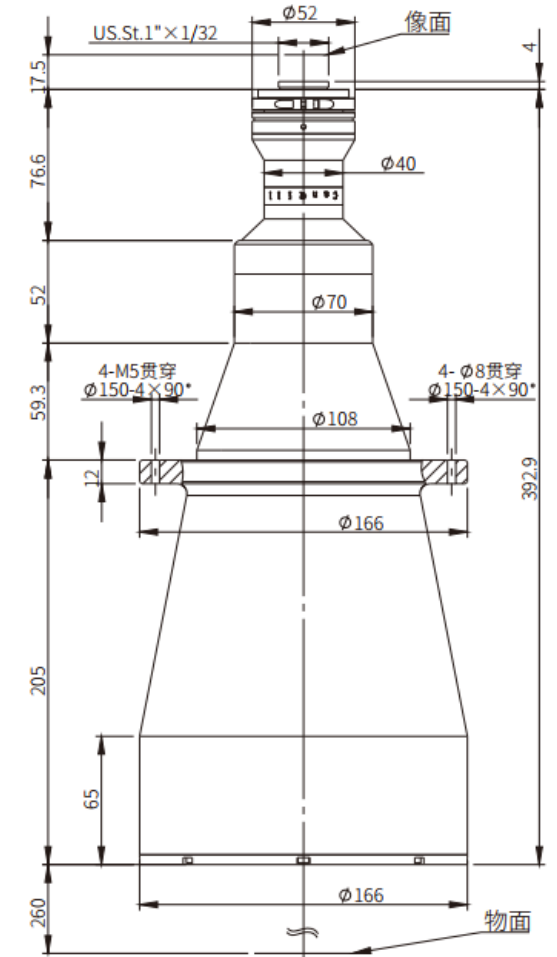
XF-PTL13719-C

Chip type	1.1"
Chip length	14.2
Chip width	10.4
diagonal	17.6
Long object field of view	105.2
Wide field of view	77
Total length of lens (mm)	400.9
Maximum diameter (mm)	166
O/I (mm)	698.4
Lens interface	C Mount
Optical distortion (%)	0.038
Resolution (μm)	31.73
aperture	F6.5
Depth of field (mm)	39.4
Image field (mm)	18.5
Telecentric design value (°)	0.04
Object field φ (mm)	137
Working distance (mm)	280
Optical structure	Double telecentric
Magnification (X)	0.135



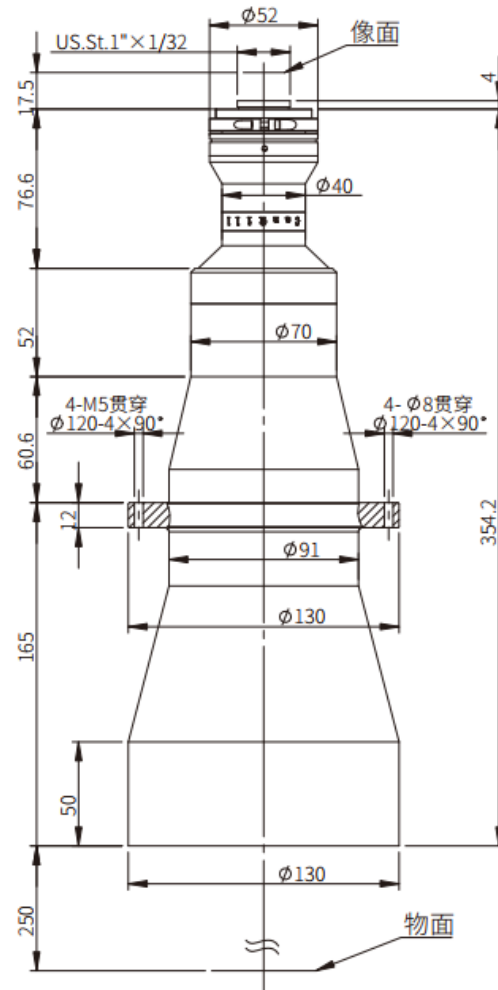
XF-PTL12219-C

Chip type	1.1"
Chip length	14.2
Chip width	10.4
diagonal	17.6
Long object field of view	93.4
Wide field of view	68.4
Total length of lens (mm)	392.9
Maximum diameter (mm)	166
O/I (mm)	670.4
Lens interface	C Mount
Optical distortion (%)	0.027
Resolution (μm)	28.28
aperture	F6.5
Depth of field (mm)	31.2
Image field (mm)	18.5
Telecentric design value (°)	0.04
Object field φ (mm)	121.7
Working distance (mm)	260
Optical structure	Double telecentric
Magnification (X)	0.152



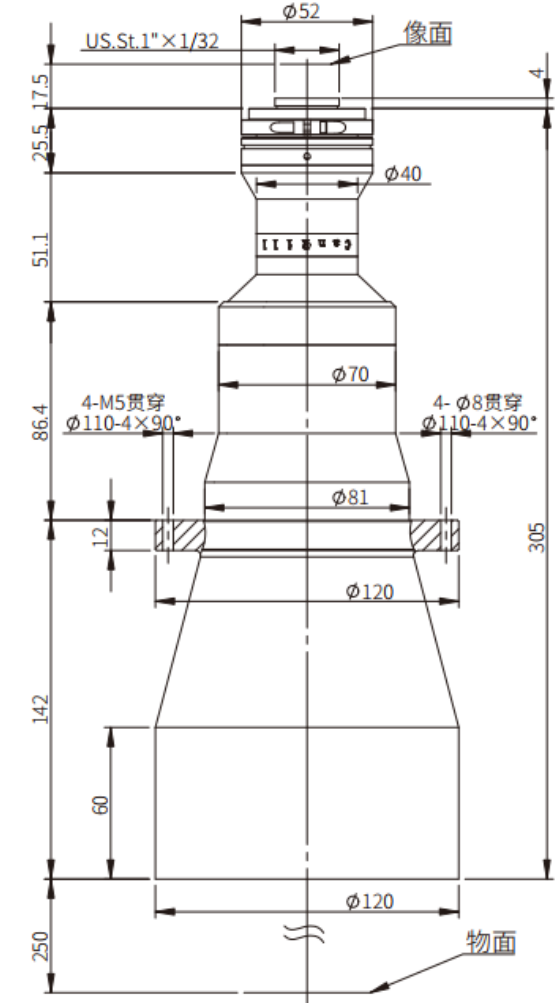
XF-PTL11019-C

Chip type	1.1"
Chip length	14.2
Chip width	10.4
diagonal	17.6
Long object field of view	84.5
Wide field of view	61.9
Total length of lens (mm)	354.2
Maximum diameter (mm)	130
O/I (mm)	621.7
Lens interface	C Mount
Optical distortion (%)	0.017
Resolution (μm)	25.58
aperture	F6.5
Depth of field (mm)	25.4
Image field (mm)	18.5
Telecentric design value (°)	0.04
Object field φ (mm)	110.1
Working distance (mm)	250
Optical structure	Double telecentric
Magnification (X)	0.168



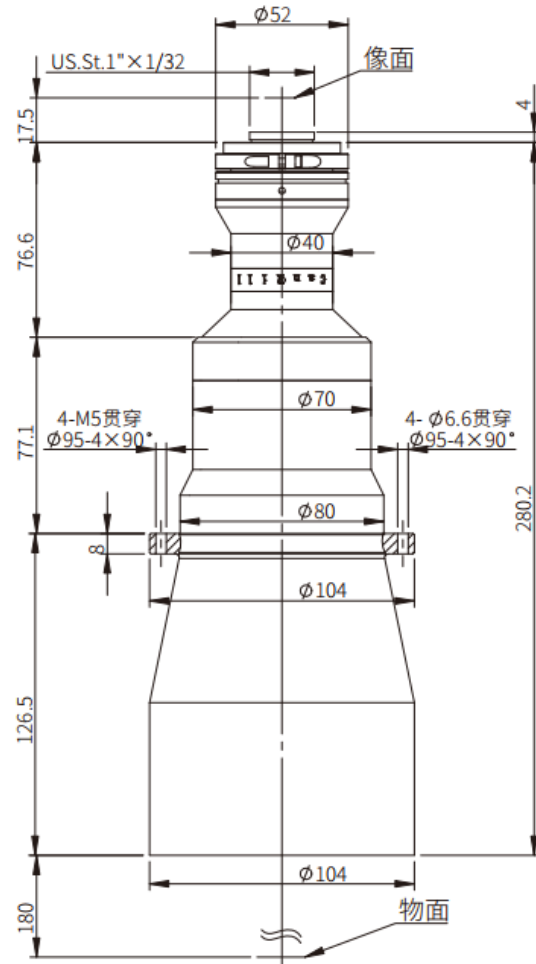
XF-PTL09219-C

Chip type	1.1"
Chip length	14.2
Chip width	10.4
diagonal	17.6
Long object field of view	70.3
Wide field of view	51.5
Total length of lens (mm)	305
Maximum diameter (mm)	120
O/I (mm)	572.5
Lens interface	C Mount
Optical distortion (%)	0.017
Resolution (μm)	21.25
aperture	F6.5
Depth of field (mm)	17.5
Image field (mm)	18.5
Telecentric design value (°)	0.04
Object field φ (mm)	91.6
Working distance (mm)	250
Optical structure	Double telecentric
Magnification (X)	0.202



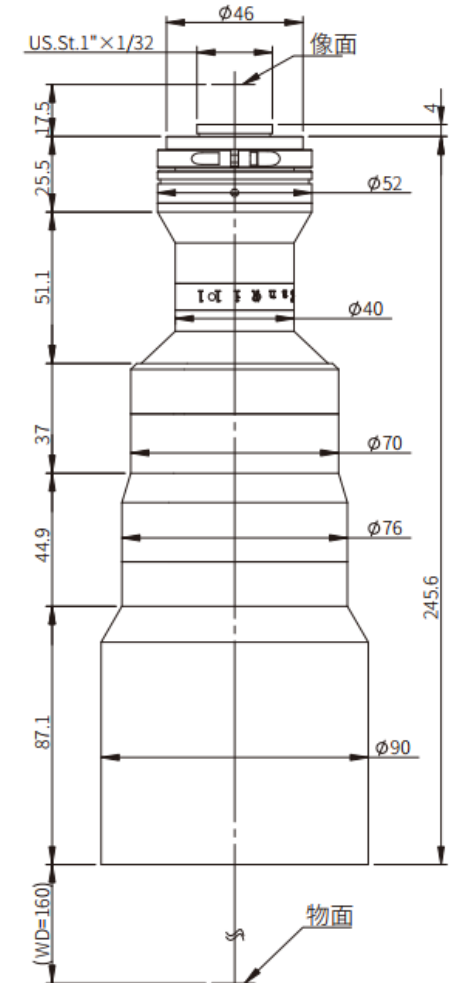
XF-PTL08019-C

Chip type	1.1"
Chip length	14.2
Chip width	10.4
diagonal	17.6
Long object field of view	61.5
Wide field of view	45
Total length of lens (mm)	280.2
Maximum diameter (mm)	104
O/I (mm)	477.7
Lens interface	C Mount
Optical distortion (%)	0.02
Resolution (μm)	18.55
aperture	F6.5
Depth of field (mm)	13.4
Image field (mm)	18.5
Telecentric design value (°)	0.03
Object field φ (mm)	80.1
Working distance (mm)	180
Optical structure	Double telecentric
Magnification (X)	0.231



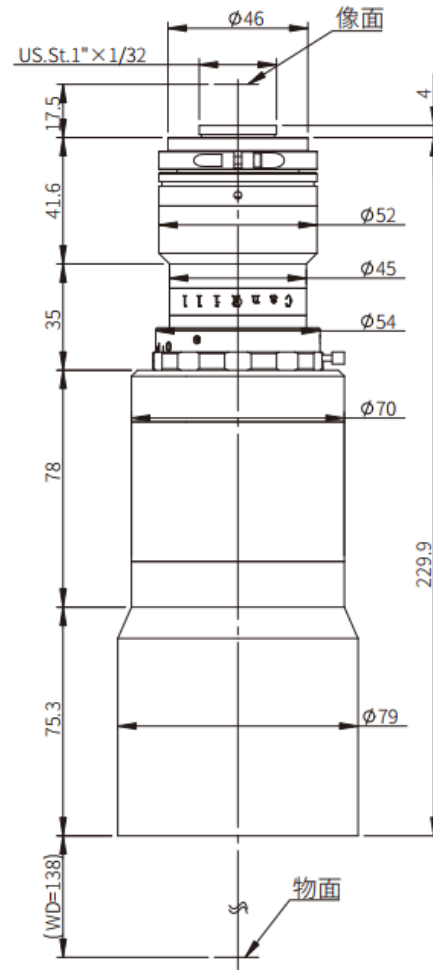
XF-PTL06519-C

Chip type	1.1"
Chip length	14.2
Chip width	10.4
diagonal	17.6
Long object field of view	50
Wide field of view	36.6
Total length of lens (mm)	245.6
Maximum diameter (mm)	90
O/I (mm)	423.1
Lens interface	C Mount
Optical distortion (%)	0.014
Resolution (μm)	15.1
aperture	F6.5
Depth of field (mm)	8.8
Image field (mm)	18.5
Telecentric design value (°)	0.03
Object field φ (mm)	65.1
Working distance (mm)	160
Optical structure	Double telecentric
Magnification (X)	0.284



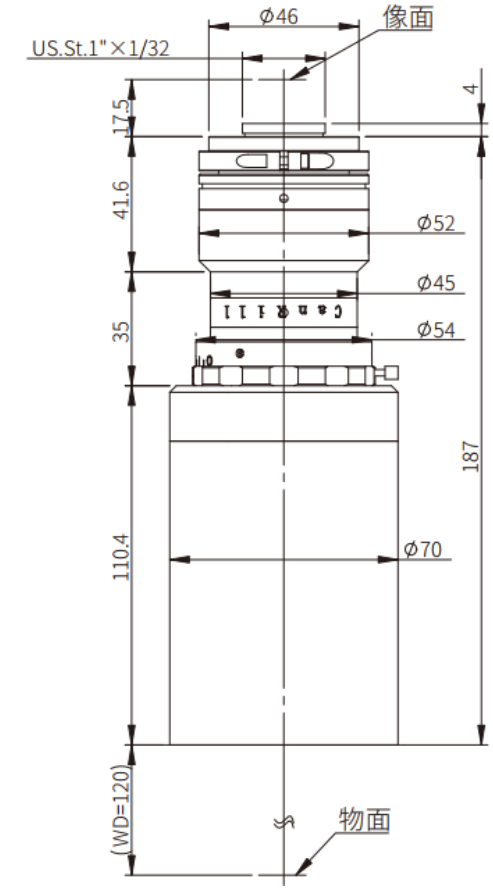
XF-PTL05519-C-VI

Chip type	1.1"
Chip length	14.2
Chip width	10.4
diagonal	17.6
Long object field of view	42.3
Wide field of view	31
Total length of lens (mm)	229.9
Maximum diameter (mm)	79
O/I (mm)	385.4
Lens interface	C Mount
Optical distortion (%)	0.035
Resolution (μm)	12.8-70.23
aperture	F6.5-F35.8
Depth of field (mm)	6.3-35.2
Image field (mm)	18.5
Telecentric design value (°)	0.04
Object field φ (mm)	55.1
Working distance (mm)	138
Optical structure	Double telecentric
Magnification (X)	0.336



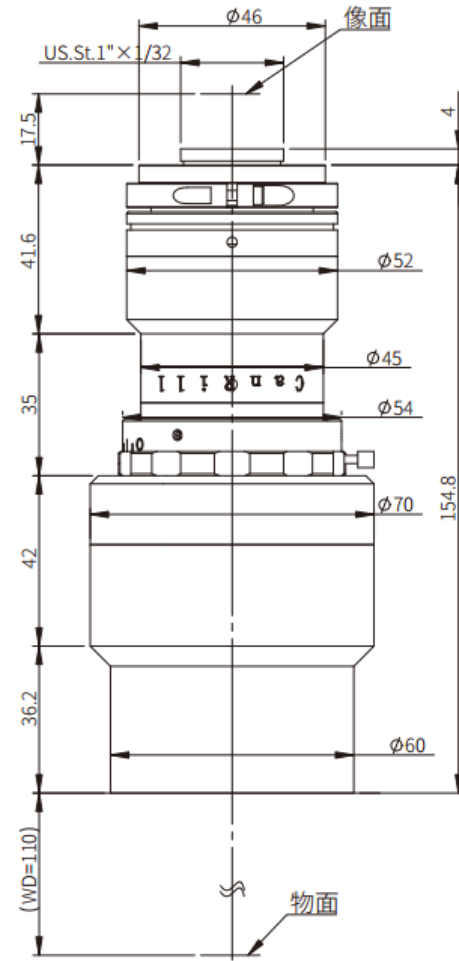
XF-PTL04519-C-VI

Chip type	1.1"
Chip length	14.2
Chip width	10.4
diagonal	17.6
Long object field of view	34.5
Wide field of view	25.3
Total length of lens (mm)	187
Maximum diameter (mm)	70
O/I (mm)	324.5
Lens interface	C Mount
Optical distortion (%)	0.02
Resolution (μm)	10.4-57.47
aperture	F6.5-F35.8
Depth of field (mm)	4.2-23.6
Image field (mm)	18.5
Telecentric design value (°)	0.03
Object field φ (mm)	45
Working distance (mm)	120
Optical structure	Double telecentric
Magnification (X)	0.411



XF-PTL03719-C-VI

Chip type	1.1"
Chip length	14.2
Chip width	10.4
diagonal	17.6
Long object field of view	28.2
Wide field of view	20.6
Total length of lens (mm)	154.8
Maximum diameter (mm)	70
O/I (mm)	282.3
Lens interface	C Mount
Optical distortion (%)	0.026
Resolution (μm)	8.5-46.82
aperture	F6.5-F35.8
Depth of field (mm)	2.8-15.6
Image field (mm)	18.5
Telecentric design value (°)	0.03
Object field φ (mm)	36.7
Working distance (mm)	110
Optical structure	Double telecentric
Magnification (X)	0.504





큐브아이엔티

Machine Vision System & Component

THANK YOU

제품관련 문의 및 상담은 하단의 연락처로 문의주시면
언제나 친절하고 성실히 응대해 드립니다.

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