



## Maximum support 1/2 inch (8mm) target surface camera

- It can support up to 1/2 inch industrial cameras
- Bilateral telecentric design, ultra-high telecentricity, can improve the measurement accuracy by several times
- 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

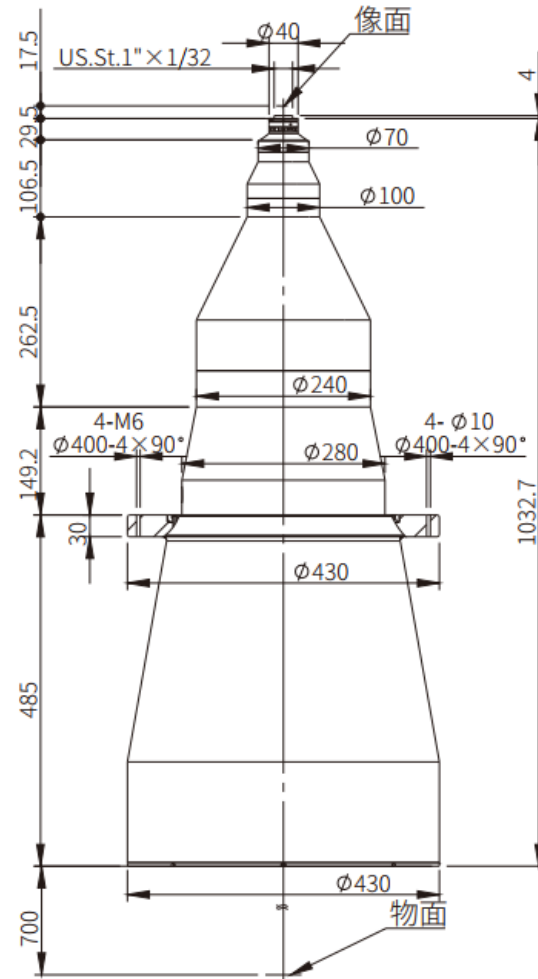


## Maximum support 1/2 inch (8mm) target surface camera

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-PTL39008-C	1/2"	Double telecentric	700	0.0205	6.4	4.8	8	312.2	234.1	1032.7	430	1,750.30	C	0.095	177.42	F5.5	1348.7	8	0.04	390.2
XF-PTL35008-C	1/2"	Double telecentric	540	0.0229	6.4	4.8	8	279.5	209.6	812.4	376	1369.9	C	0.095	158.55	F5.5	1072.5	8	0.05	349.3
XF-PTL31008-C	1/2"	Double telecentric	500	0.0258	6.4	4.8	8	248.1	186	740.1	340	1257.6	C	0.095	140.49	F5.5	872.5	8	0.04	310.1
XF-PTL26808-C	1/2"	Double telecentric	410	0.0299	6.4	4.8	8	214	160.5	673.8	300	1101.3	C	0.1	121.34	F5.5	634.2	8	0.04	267.6
XF-PTL23808-C	1/2"	Double telecentric	410	0.0336	6.4	4.8	8	190.5	142.9	615.2	270	1042.7	C	0.09	107.89	F5.5	512.8	8	0.04	238.1
XF-PTL19508-C	1/2"	Double telecentric	400	0.0411	6.4	4.8	8	155.7	116.8	467.2	222	884.7	C	0.097	88.29	F5.5	358.7	8	0.04	194.6
XF-PTL18208-C	1/2"	Double telecentric	398	0.044	6.4	4.8	8	145.5	109.1	440.7	210	856.2	C	0.096	82.71	F5.5	314.3	8	0.04	181.8
XF-PTL15208-C	1/2"	Double telecentric	320	0.0528	6.4	4.8	8	121.2	90.9	392.8	180	730.3	C	0.096	68.56	F5.5	218.8	8	0.04	151.5
XF-PTL13708-C	1/2"	Double telecentric	280	0.0585	6.4	4.8	8	109.4	82.1	353.7	166	651.2	C	0.095	62.15	F5.5	179.9	8	0.04	136.8
XF-PTL12208-C	1/2"	Double telecentric	260	0.0656	6.4	4.8	8	97.6	73.2	345.7	166	623.2	C	0.09	55.37	F5.5	142.1	8	0.04	122
XF-PTL11008-C	1/2"	Double telecentric	250	0.0727	6.4	4.8	8	88	66	307.1	130	574.6	C	0.095	50	F5.5	115.9	8	0.04	110
XF-PTL09208-C	1/2"	Double telecentric	250	0.0874	6.4	4.8	8	73.2	54.9	257.8	120	525.3	C	0.098	41.53	F5.5	79.8	8	0.04	91.5
XF-PTL08008-C	1/2"	Double telecentric	180	0.1	6.4	4.8	8	64	48	233.1	104	430.6	C	0.092	36.26	F5.5	61	8	0.03	80
XF-PTL06508-C	1/2"	Double telecentric	160	0.123	6.4	4.8	8	52	39	198.5	90	376	C	0.095	29.5	F5.5	40.4	8	0.03	65
XF-PTL05508-C	1/2"	Double telecentric	138	0.146	6.4	4.8	8	43.8	32.9	182.8	79	338.3	C	0.065	24.93	F5.5	28.9	8	0.04	54.8
XF-PTL04508-C	1/2"	Double telecentric	120	0.178	6.4	4.8	8	36	27	139.8	70	277.3	C	0.099	20.4	F5.5	19.3	8	0.03	44.9
XF-PTL03708-C	1/2"	Double telecentric	110	0.218	6.4	4.8	8	29.4	22	107.7	70	235.2	C	0.11	16.62	F5.5	12.8	8	0.03	36.7

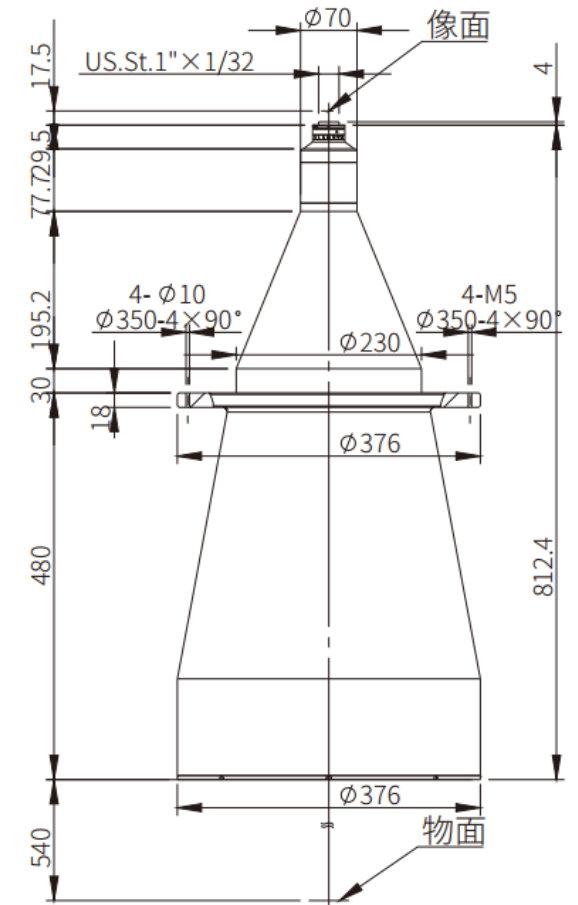
## XF-PTL39008-C

Chip type	1/2"
Chip length	6.4
Chip width	4.8
diagonal	8
Long object field of view	312.2
Wide field of view	234.1
Total length of lens (mm)	1032.7
Maximum diameter (mm)	430
O/I (mm)	1,750.30
Lens interface	C Mount
Optical distortion (%)	0.095
Resolution (μm)	177.42
aperture	F5.5
Depth of field (mm)	1348.7
Image field (mm)	8
Telecentric design value (°)	0.04
Object field φ (mm)	390.2
Working distance (mm)	700
Optical structure	Double telecentric
Magnification (X)	0.0205



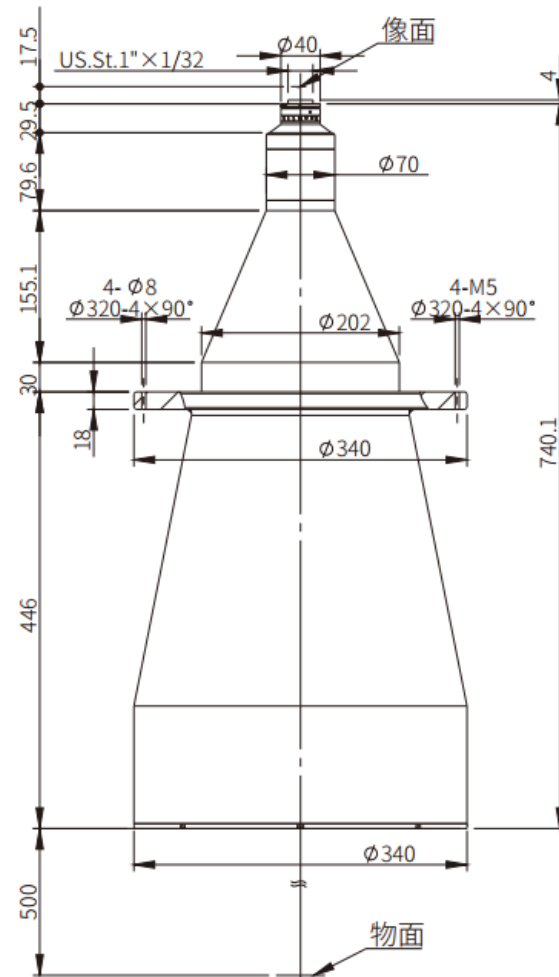
## XF-PTL35008-C

Chip type	1/2"
Chip length	6.4
Chip width	4.8
diagonal	8
Long object field of view	279.5
Wide field of view	209.6
Total length of lens (mm)	812.4
Maximum diameter (mm)	376
O/I (mm)	1369.9
Lens interface	C Mount
Optical distortion (%)	0.095
Resolution (μm)	158.55
aperture	F5.5
Depth of field (mm)	1072.5
Image field (mm)	8
Telecentric design value (°)	0.05
Object field φ (mm)	349.3
Working distance (mm)	540
Optical structure	Double telecentric
Magnification (X)	0.0229



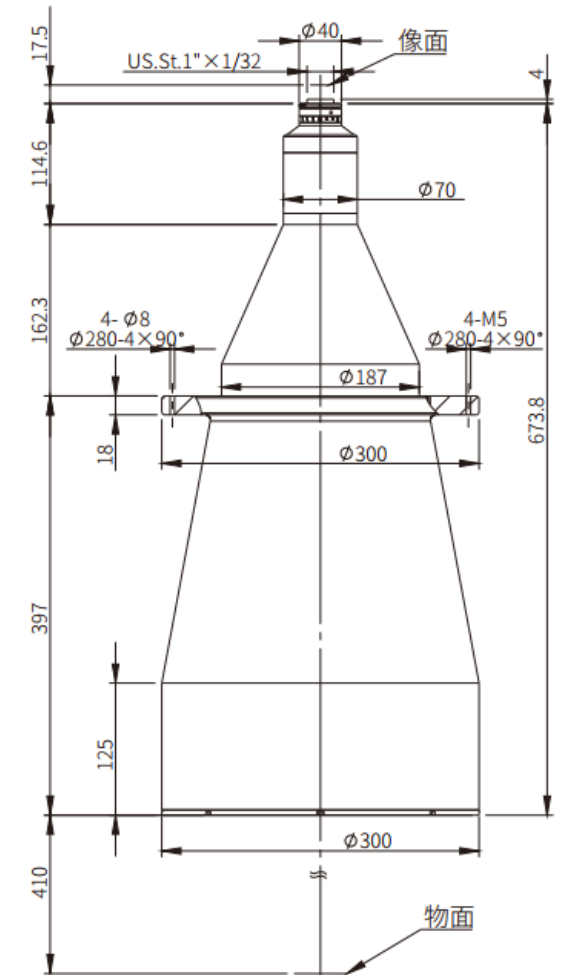
## XF-PTL31008-C

Chip type	1/2"
Chip length	6.4
Chip width	4.8
diagonal	8
Long object field of view	248.1
Wide field of view	186
Total length of lens (mm)	740.1
Maximum diameter (mm)	340
O/I (mm)	1257.6
Lens interface	C Mount
Optical distortion (%)	0.095
Resolution (μm)	140.49
aperture	F5.5
Depth of field (mm)	872.5
Image field (mm)	8
Telecentric design value (°)	0.04
Object field φ (mm)	310.1
Working distance (mm)	500
Optical structure	Double telecentric
Magnification (X)	0.0258



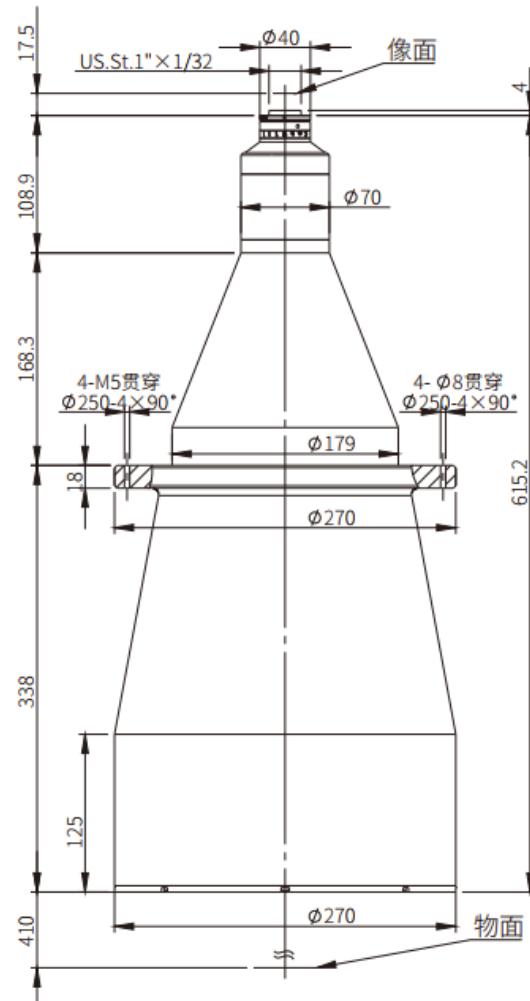
## XF-PTL26808-C

Chip type	1/2"
Chip length	6.4
Chip width	4.8
diagonal	8
Long object field of view	214
Wide field of view	160.5
Total length of lens (mm)	673.8
Maximum diameter (mm)	300
O/I (mm)	1101.3
Lens interface	C Mount
Optical distortion (%)	0.1
Resolution (μm)	121.34
aperture	F5.5
Depth of field (mm)	634.2
Image field (mm)	8
Telecentric design value (°)	0.04
Object field φ (mm)	267.6
Working distance (mm)	410
Optical structure	Double telecentric
Magnification (X)	0.0299



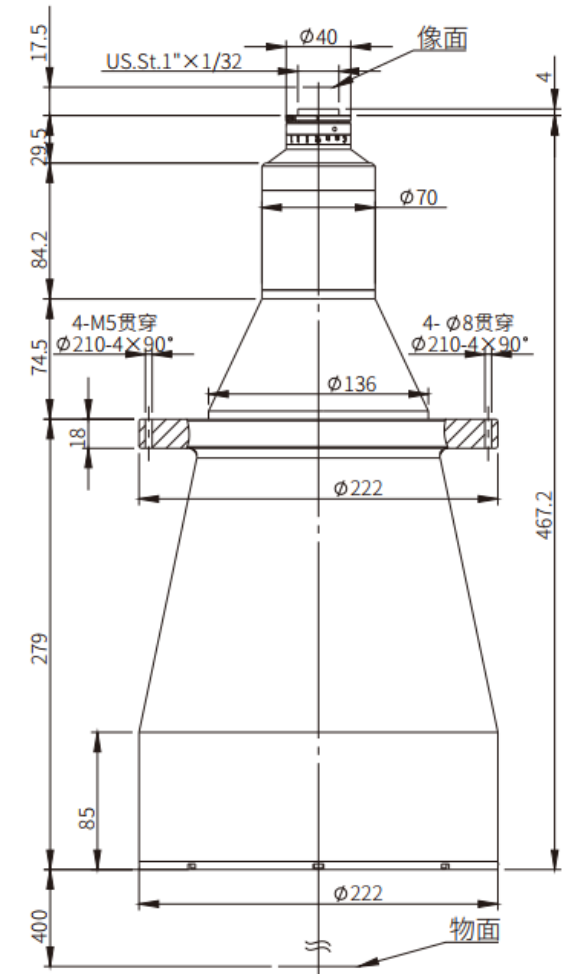
## XF-PTL23808-C

Chip type	1/2"
Chip length	6.4
Chip width	4.8
diagonal	8
Long object field of view	190.5
Wide field of view	142.9
Total length of lens (mm)	615.2
Maximum diameter (mm)	270
O/I (mm)	1042.7
Lens interface	C Mount
Optical distortion (%)	0.09
Resolution (μm)	107.89
aperture	F5.5
Depth of field (mm)	512.8
Image field (mm)	8
Telecentric design value (°)	0.04
Object field φ (mm)	238.1
Working distance (mm)	410
Optical structure	Double telecentric
Magnification (X)	0.0336



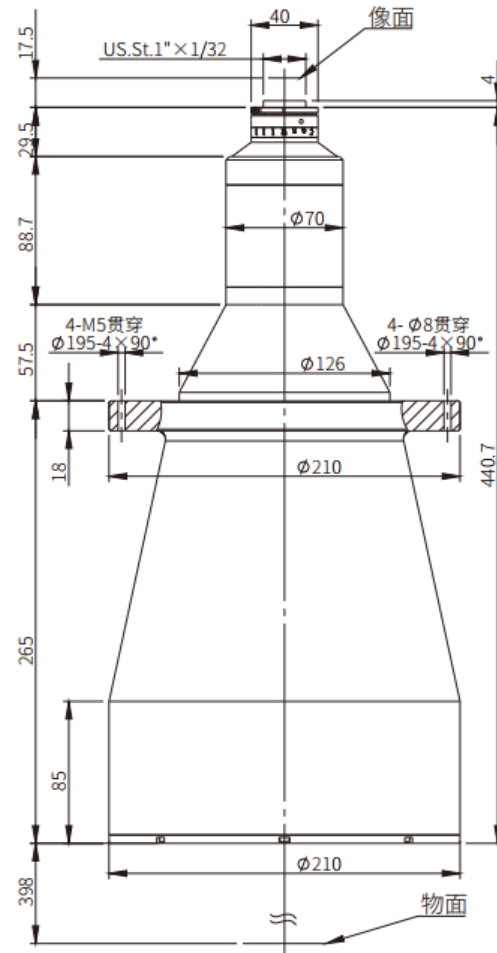
## XF-PTL19508-C

Chip type	1/2"
Chip length	6.4
Chip width	4.8
diagonal	8
Long object field of view	155.7
Wide field of view	116.8
Total length of lens (mm)	467.2
Maximum diameter (mm)	222
O/I (mm)	884.7
Lens interface	C Mount
Optical distortion (%)	0.097
Resolution (μm)	88.29
aperture	F5.5
Depth of field (mm)	358.7
Image field (mm)	8
Telecentric design value (°)	0.04
Object field φ (mm)	194.6
Working distance (mm)	400
Optical structure	Double telecentric
Magnification (X)	0.0411



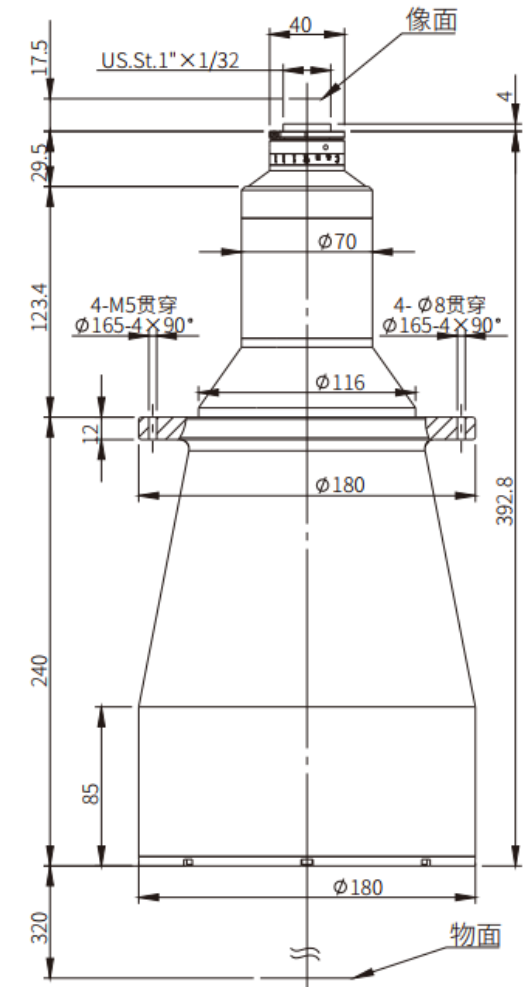
## XF-PTL18208-C

Chip type	1/2"
Chip length	6.4
Chip width	4.8
diagonal	8
Long object field of view	145.5
Wide field of view	109.1
Total length of lens (mm)	440.7
Maximum diameter (mm)	210
O/I (mm)	856.2
Lens interface	C Mount
Optical distortion (%)	0.096
Resolution (μm)	82.71
aperture	F5.5
Depth of field (mm)	314.3
Image field (mm)	8
Telecentric design value (°)	0.04
Object field φ (mm)	181.8
Working distance (mm)	398
Optical structure	Double telecentric
Magnification (X)	0.044



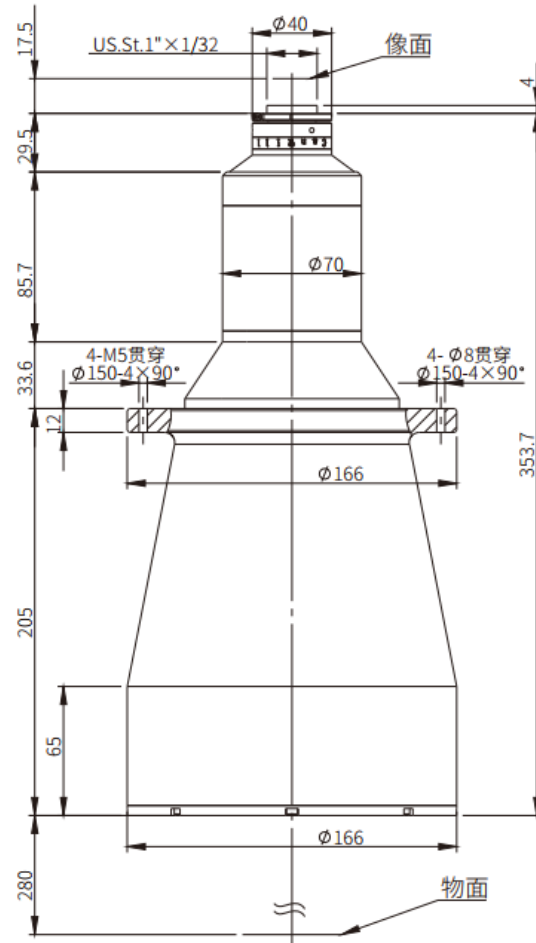
## XF-PTL15208-C

Chip type	1/2"
Chip length	6.4
Chip width	4.8
diagonal	8
Long object field of view	121.2
Wide field of view	90.9
Total length of lens (mm)	392.8
Maximum diameter (mm)	180
O/I (mm)	730.3
Lens interface	C Mount
Optical distortion (%)	0.096
Resolution (μm)	68.56
aperture	F5.5
Depth of field (mm)	218.8
Image field (mm)	8
Telecentric design value (°)	0.04
Object field φ (mm)	151.5
Working distance (mm)	320
Optical structure	Double telecentric
Magnification (X)	0.0528



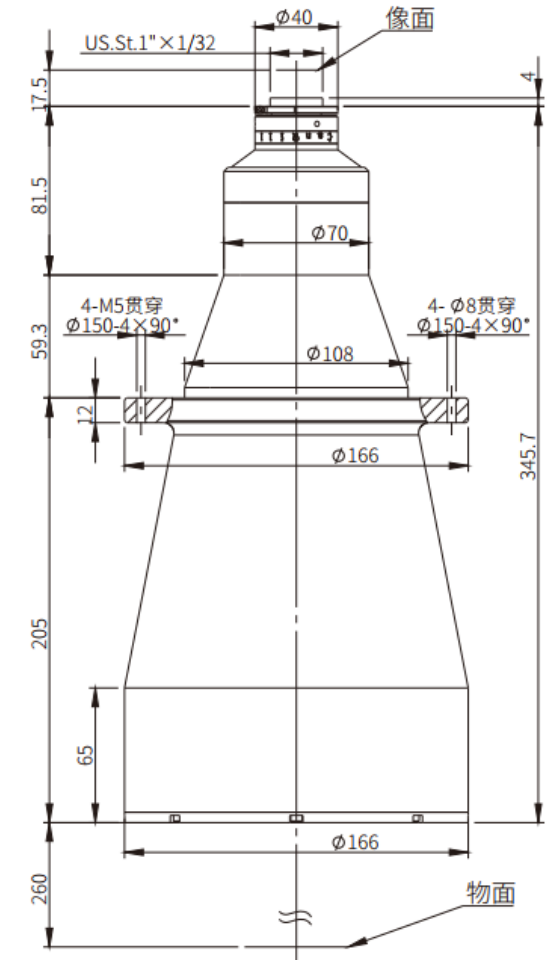
## XF-PTL13708-C

Chip type	1/2"
Chip length	6.4
Chip width	4.8
diagonal	8
Long object field of view	109.4
Wide field of view	82.1
Total length of lens (mm)	353.7
Maximum diameter (mm)	166
O/I (mm)	651.2
Lens interface	C Mount
Optical distortion (%)	0.095
Resolution (μm)	62.15
aperture	F5.5
Depth of field (mm)	179.9
Image field (mm)	8
Telecentric design value (°)	0.04
Object field φ (mm)	136.8
Working distance (mm)	280
Optical structure	Double telecentric
Magnification (X)	0.0585



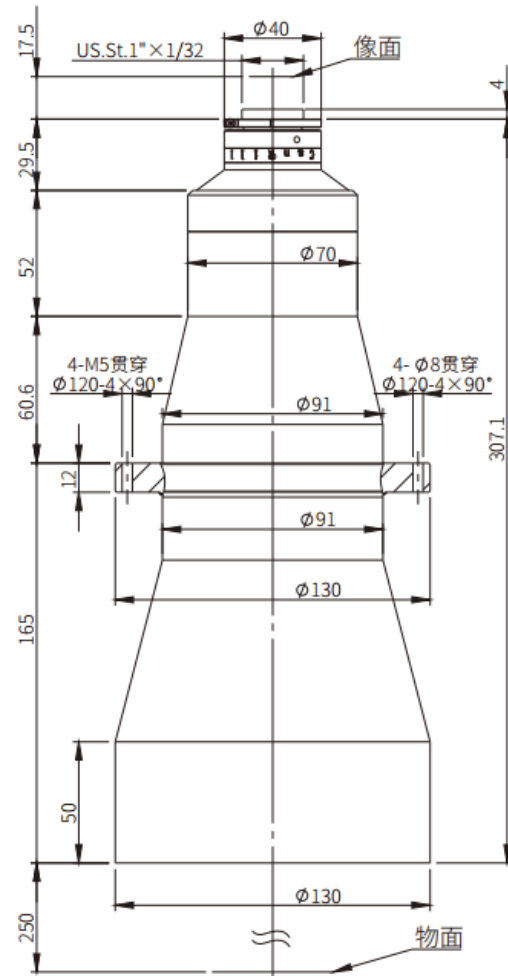
## XF-PTL12208-C

Chip type	1/2"
Chip length	6.4
Chip width	4.8
diagonal	8
Long object field of view	97.6
Wide field of view	73.2
Total length of lens (mm)	345.7
Maximum diameter (mm)	166
O/I (mm)	623.2
Lens interface	C Mount
Optical distortion (%)	0.09
Resolution (μm)	55.37
aperture	F5.5
Depth of field (mm)	142.1
Image field (mm)	8
Telecentric design value (°)	0.04
Object field φ (mm)	122
Working distance (mm)	260
Optical structure	Double telecentric
Magnification (X)	0.0656



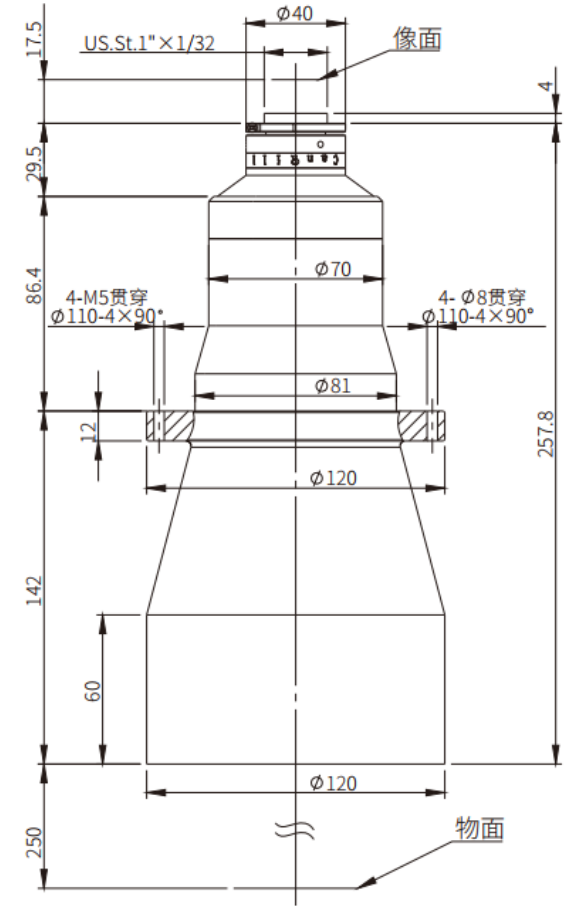
## XF-PTL11008-C

Chip type	1/2"
Chip length	6.4
Chip width	4.8
diagonal	8
Long object field of view	88
Wide field of view	66
Total length of lens (mm)	307.1
Maximum diameter (mm)	130
O/I (mm)	574.6
Lens interface	C Mount
Optical distortion (%)	0.095
Resolution (μm)	50
aperture	F5.5
Depth of field (mm)	115.9
Image field (mm)	8
Telecentric design value (°)	0.04
Object field φ (mm)	110
Working distance (mm)	250
Optical structure	Double telecentric
Magnification (X)	0.0727



## XF-PTL09208-C

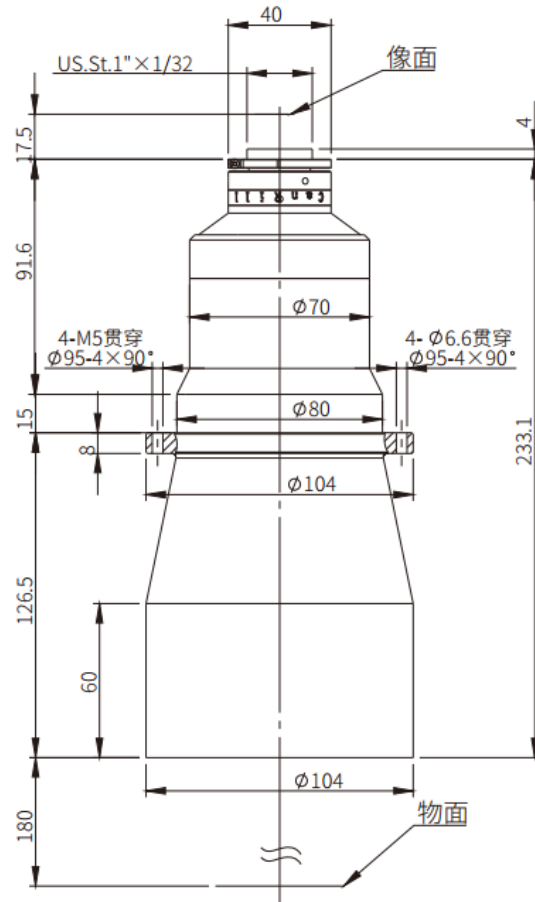
Chip type	1/2"
Chip length	6.4
Chip width	4.8
diagonal	8
Long object field of view	73.2
Wide field of view	54.9
Total length of lens (mm)	257.8
Maximum diameter (mm)	120
O/I (mm)	525.3
Lens interface	C Mount
Optical distortion (%)	0.098
Resolution (μm)	41.53
aperture	F5.5
Depth of field (mm)	79.8
Image field (mm)	8
Telecentric design value (°)	0.04
Object field φ (mm)	91.5
Working distance (mm)	250
Optical structure	Double telecentric
Magnification (X)	0.0874





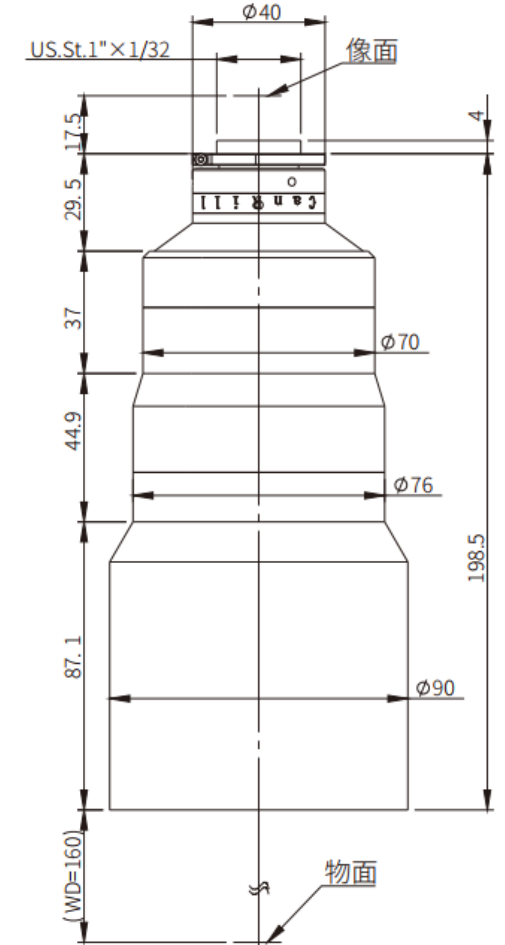
## XF-PTL08008-C

Chip type	1/2"
Chip length	6.4
Chip width	4.8
diagonal	8
Long object field of view	64
Wide field of view	48
Total length of lens (mm)	233.1
Maximum diameter (mm)	104
O/I (mm)	430.6
Lens interface	C Mount
Optical distortion (%)	0.092
Resolution (μm)	36.26
aperture	F5.5
Depth of field (mm)	61
Image field (mm)	8
Telecentric design value (°)	0.03
Object field φ (mm)	80
Working distance (mm)	180
Optical structure	Double telecentric
Magnification (X)	0.1



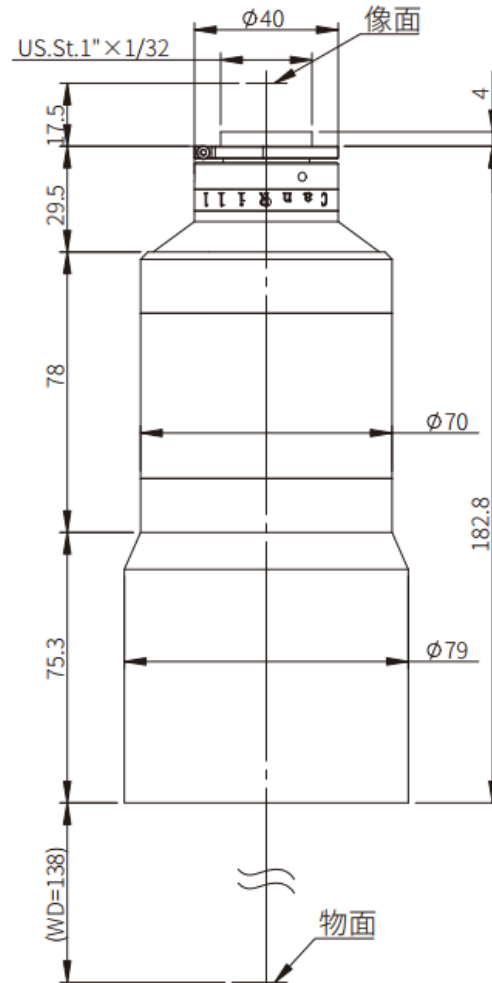
## XF-PTL06508-C

Chip type	1/2"
Chip length	6.4
Chip width	4.8
diagonal	8
Long object field of view	52
Wide field of view	39
Total length of lens (mm)	198.5
Maximum diameter (mm)	90
O/I (mm)	376
Lens interface	C Mount
Optical distortion (%)	0.095
Resolution (μm)	29.5
aperture	F5.5
Depth of field (mm)	40.4
Image field (mm)	8
Telecentric design value (°)	0.03
Object field φ (mm)	65
Working distance (mm)	160
Optical structure	Double telecentric
Magnification (X)	0.123



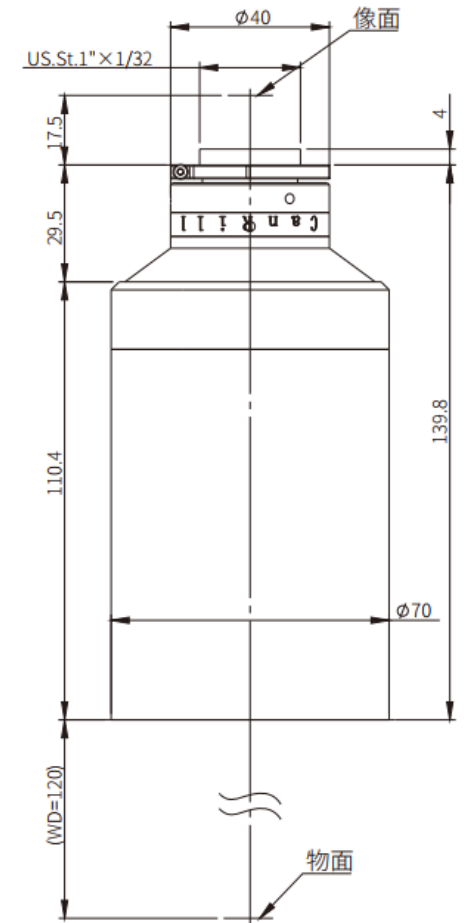
## XF-PTL05508-C

Chip type	1/2"
Chip length	6.4
Chip width	4.8
diagonal	8
Long object field of view	43.8
Wide field of view	32.9
Total length of lens (mm)	182.8
Maximum diameter (mm)	79
O/I (mm)	338.3
Lens interface	C Mount
Optical distortion (%)	0.065
Resolution (μm)	24.93
aperture	F5.5
Depth of field (mm)	28.9
Image field (mm)	8
Telecentric design value (°)	0.04
Object field φ (mm)	54.8
Working distance (mm)	138
Optical structure	Double telecentric
Magnification (X)	0.146



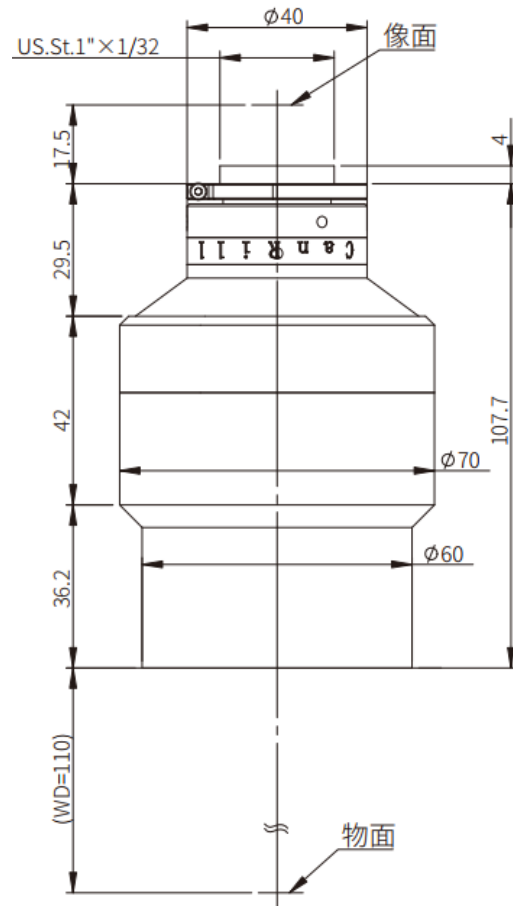
## XF-PTL04508-C

Chip type	1/2"
Chip length	6.4
Chip width	4.8
diagonal	8
Long object field of view	36
Wide field of view	27
Total length of lens (mm)	139.8
Maximum diameter (mm)	70
O/I (mm)	277.3
Lens interface	C Mount
Optical distortion (%)	0.099
Resolution (μm)	20.4
aperture	F5.5
Depth of field (mm)	19.3
Image field (mm)	8
Telecentric design value (°)	0.03
Object field φ (mm)	44.9
Working distance (mm)	120
Optical structure	Double telecentric
Magnification (X)	0.178



## XF-PTL03708-C

Chip type	1/2"
Chip length	6.4
Chip width	4.8
diagonal	8
Long object field of view	29.4
Wide field of view	twenty two
Total length of lens (mm)	107.7
Maximum diameter (mm)	70
O/I (mm)	235.2
Lens interface	C Mount
Optical distortion (%)	0.11
Resolution ( $\mu\text{m}$ )	16.62
aperture	F5.5
Depth of field (mm)	12.8
Image field (mm)	8
Telecentric design value ( $^{\circ}$ )	0.03
Object field $\phi$ (mm)	36.7
Working distance (mm)	110
Optical structure	Double telecentric
Magnification (X)	0.218





큐브아이엔티

Machine Vision System & Component

# THANK YOU

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

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