



## Maximum support 38mm target surface camera

- 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

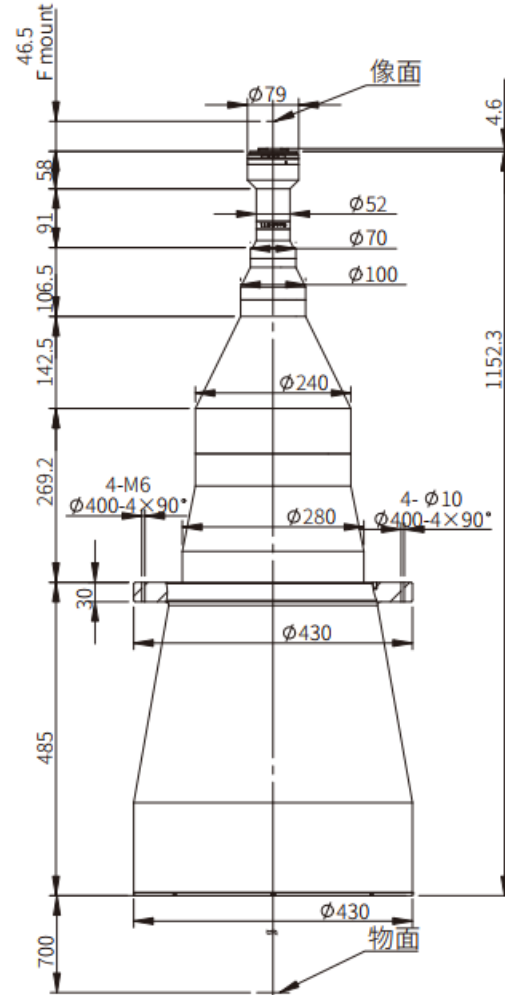


## Maximum support 38mm target surface camera

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-PTL39038-F	71M	Double Telecentric	700	0.101	31	22	38	306.9	217.8	1152.3	430	1898.8	F	0.06	52.38	F8	86.2	38	0.04	376.2
XF-PTL35038-F	71M	Double Telecentric	540	0.113	31	22	38	274.3	194.7	931.9	376	1518.4	F	0.052	46.92	F8	69.6	38	0.05	336.3
XF-PTL31038-F	71M	Double Telecentric	500	0.127	31	22	38	244.1	173.2	859.7	340	1406.2	F	0.055	41.57	F8	54.6	38	0.04	299.2
XF-PTL26838-F	71M	Double Telecentric	410	0.147	31	22	38	210.9	149.7	793.4	300	1249.9	F	0.06	35.93	F8	40.9	38	0.04	258.5
XF-PTL23838-F	71M	Double Telecentric	410	0.165	31	22	38	187.9	133.3	734.8	270	1191.3	F	0.055	31.94	F8	32.2	38	0.04	230.3
XF-PTL19538-F	71M	Double Telecentric	400	0.202	31	22	38	153.5	108.9	586.7	222	1033.2	F	0.06	26.13	F8	21.6	38	0.04	188.1
XF-PTL18238-F	71M	Double Telecentric	398	0.216	31	22	38	143.5	101.9	560.3	210	1004.8	F	0.062	24.44	F8	18.9	38	0.04	175.9
XF-PTL15238-F	71M	Double Telecentric	320	0.26	31	22	38	119.2	84.6	512.4	180	878.9	F	0.06	20.35	F8	13	38	0.04	146.2
XF-PTL13738-F	71M	Double Telecentric	280	0.287	31	22	38	108	76.7	473.3	166	799.8	F	0.062	18.44	F8	10.6	38	0.04	132.4
XF-PTL12238-F-VI	71M	Double Telecentric	260	0.323	31	22	38	96	68.1	465.3	166	771.8	F	0.058	16.34-103.13	F8-F50.5	8.4-53.6	38	0.04	117.6
XF-PTL11038-F-VI	71M	Double Telecentric	250	0.357	31	22	38	86.8	61.6	426.6	130	723.1	F	0.065	14.8-93.41	F8-F50.5	6.9-44.1	38	0.04	106.4
XF-PTL09238-F-VI	71M	Double Telecentric	250	0.43	31	22	38	72.1	51.2	377.4	120	673.9	F	0.065	12.3-78	F8-F51	4.7-30.6	38	0.04	88.4
XF-PTL08038-F-VI	71M	Double Telecentric	180	0.492	31	22	38	63	44.7	352.7	104	579.2	F	0.06	10.74-68.1	F8-F51	3.6-23.3	38	0.03	77.2
XF-PTL06538-F-VI	71M	Double Telecentric	160	0.605	31	22	38	51.2	36.4	318	90	524.5	F	0.062	8.7-55.41	F8-F50.8	2.4-15.5	38	0.03	62.8
XF-PTL05538-F-VI	71M	Double Telecentric	138	0.715	31	22	38	43.4	30.8	302.4	79	486.9	F	0.035	7.4-46.82	F8-F50.8	1.7-11	38	0.04	53.1
XF-PTL04538-F-VI	71M	Double Telecentric	120	0.874	31	22	38	35.5	25.2	259.4	70	425.9	F	0.065	6-38.32	F8-F50.8	1.1-7.4	38	0.03	43.5
XF-PTL03738-F-VI	71M	Double Telecentric	110	1.073	31	22	38	28.9	20.5	227.3	70	383.8	F	0.071	4.9-31.22	F8-F50.8	0.7-4.9	38	0.03	35.4

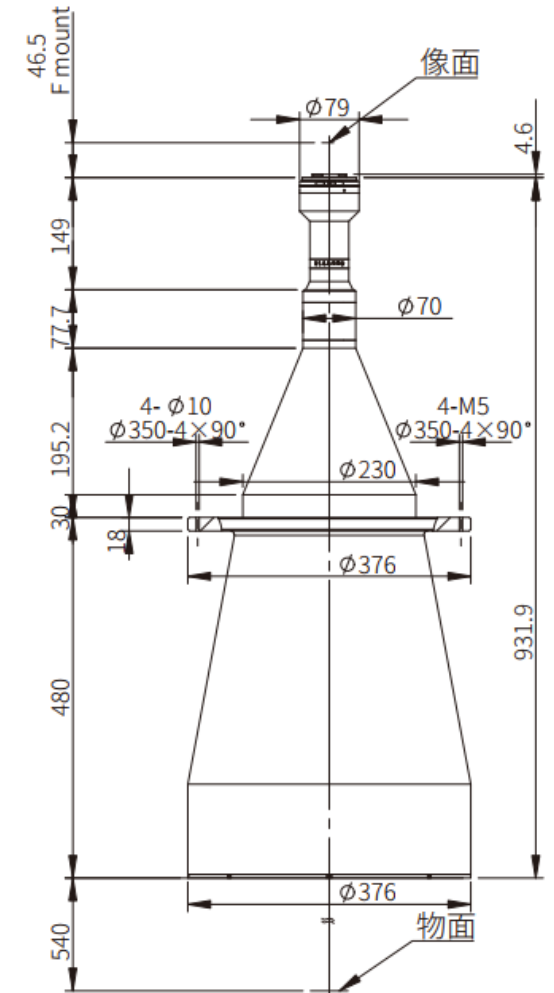
## XF-PTL39038-F

Chip type	71M
Chip length	31
Chip width	22
diagonal	38
Long object field of view	306.9
Wide field of view	217.8
Total length of lens (mm)	1152.3
Maximum diameter (mm)	430
O/I (mm)	1898.8
Lens interface	F Mount
Optical distortion (%)	0.06
Resolution (μm)	52.38
aperture	F8
Depth of field (mm)	86.2
Image field (mm)	38
Telecentric design value (°)	0.04
Object field φ (mm)	376.2
Working distance (mm)	700
Optical structure	Double telecentric
Magnification (X)	0.101



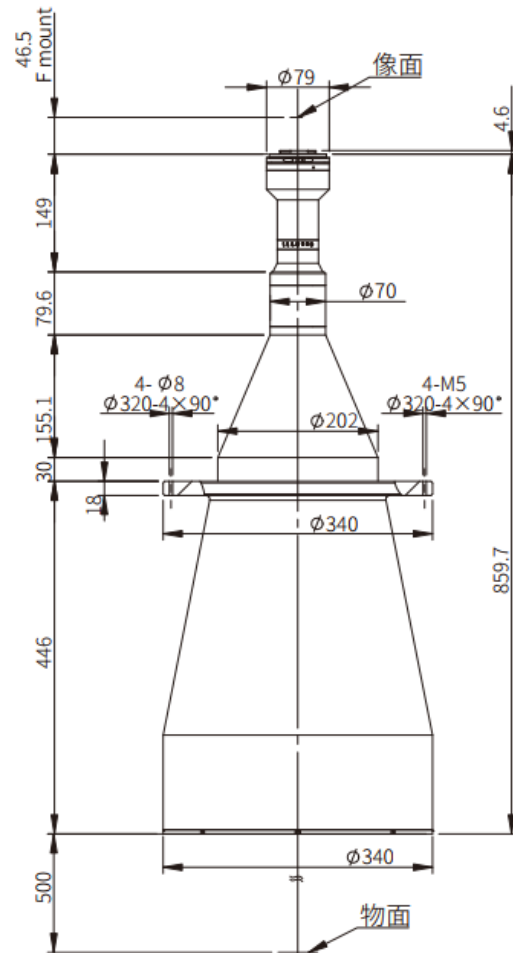
## XF-PTL35038-F

Chip type	71M
Chip length	31
Chip width	22
diagonal	38
Long object field of view	274.3
Wide field of view	194.7
Total length of lens (mm)	931.9
Maximum diameter (mm)	376
O/I (mm)	1518.4
Lens interface	F Mount
Optical distortion (%)	0.052
Resolution (μm)	46.92
aperture	F8
Depth of field (mm)	69.6
Image field (mm)	38
Telecentric design value (°)	0.05
Object field φ (mm)	336.3
Working distance (mm)	540
Optical structure	Double telecentric
Magnification (X)	0.113



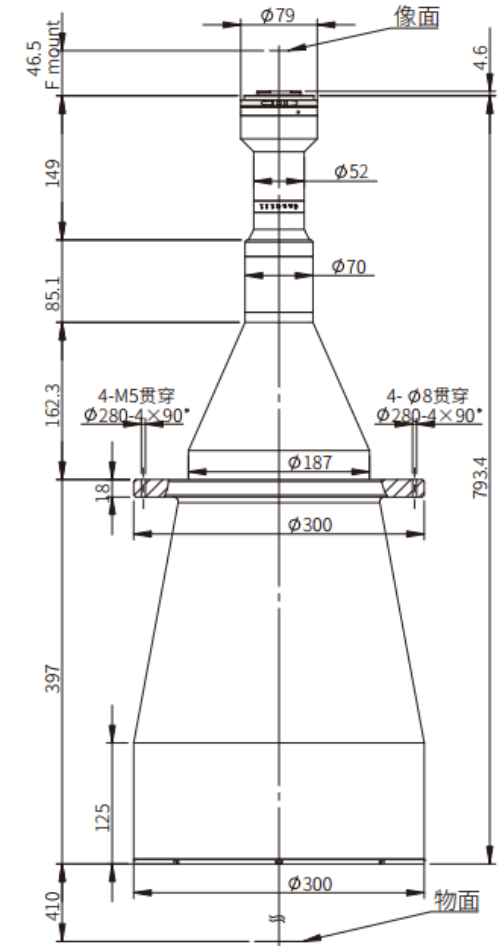
## XF-PTL31038-F

Chip type	71M
Chip length	31
Chip width	22
diagonal	38
Long object field of view	244.1
Wide field of view	173.2
Total length of lens (mm)	859.7
Maximum diameter (mm)	340
O/I (mm)	1406.2
Lens interface	F Mount
Optical distortion (%)	0.055
Resolution (μm)	41.57
aperture	F8
Depth of field (mm)	54.6
Image field (mm)	38
Telecentric design value (°)	0.04
Object field φ (mm)	299.2
Working distance (mm)	500
Optical structure	Double telecentric
Magnification (X)	0.127



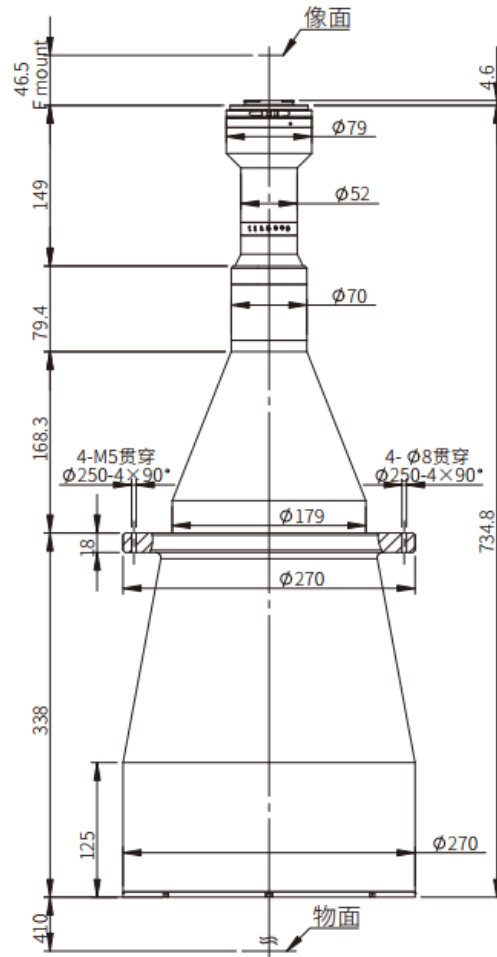
## XF-PTL26838-F

Chip type	71M
Chip length	31
Chip width	22
diagonal	38
Long object field of view	210.9
Wide field of view	149.7
Total length of lens (mm)	793.4
Maximum diameter (mm)	300
O/I (mm)	1249.9
Lens interface	F Mount
Optical distortion (%)	0.06
Resolution (μm)	35.93
aperture	F8
Depth of field (mm)	40.9
Image field (mm)	38
Telecentric design value (°)	0.04
Object field φ (mm)	258.5
Working distance (mm)	410
Optical structure	Double telecentric
Magnification (X)	0.147



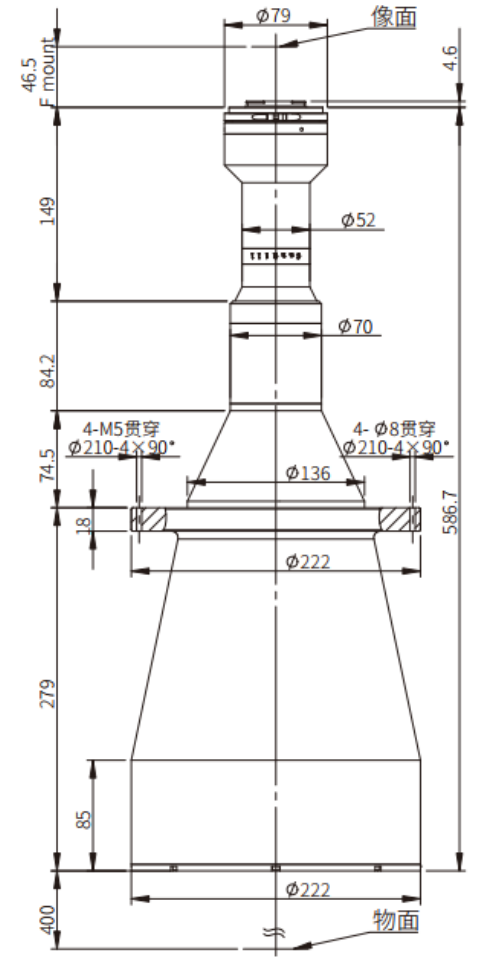
## XF-PTL23838-F

Chip type	71M
Chip length	31
Chip width	22
diagonal	38
Long object field of view	187.9
Wide field of view	133.3
Total length of lens (mm)	734.8
Maximum diameter (mm)	270
O/I (mm)	1191.3
Lens interface	F Mount
Optical distortion (%)	0.055
Resolution (μm)	31.94
aperture	F8
Depth of field (mm)	32.2
Image field (mm)	38
Telecentric design value (°)	0.04
Object field φ (mm)	230.3
Working distance (mm)	410
Optical structure	Double telecentric
Magnification (X)	0.165



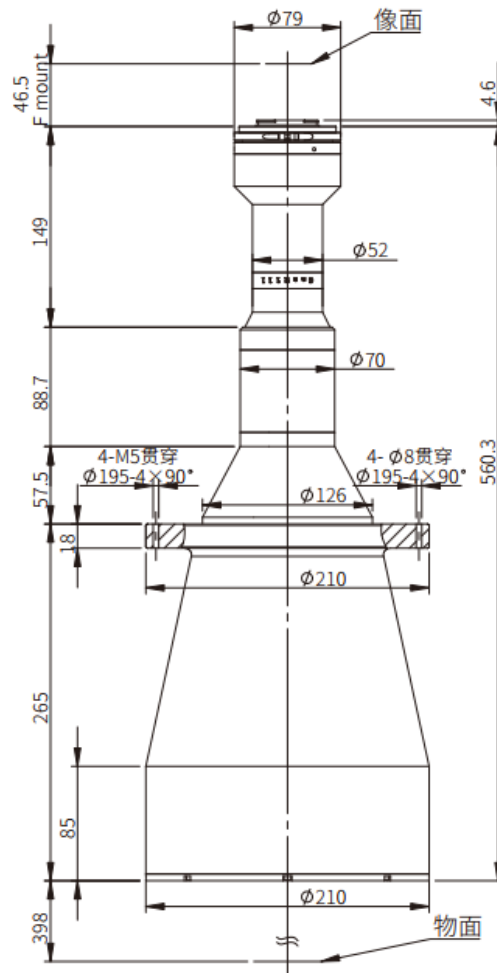
## XF-PTL19538-F

Chip type	71M
Chip length	31
Chip width	22
diagonal	38
Long object field of view	153.5
Wide field of view	108.9
Total length of lens (mm)	586.7
Maximum diameter (mm)	222
O/I (mm)	1033.2
Lens interface	F Mount
Optical distortion (%)	0.06
Resolution (μm)	26.13
aperture	F8
Depth of field (mm)	21.6
Image field (mm)	38
Telecentric design value (°)	0.04
Object field φ (mm)	188.1
Working distance (mm)	400
Optical structure	Double telecentric
Magnification (X)	0.202



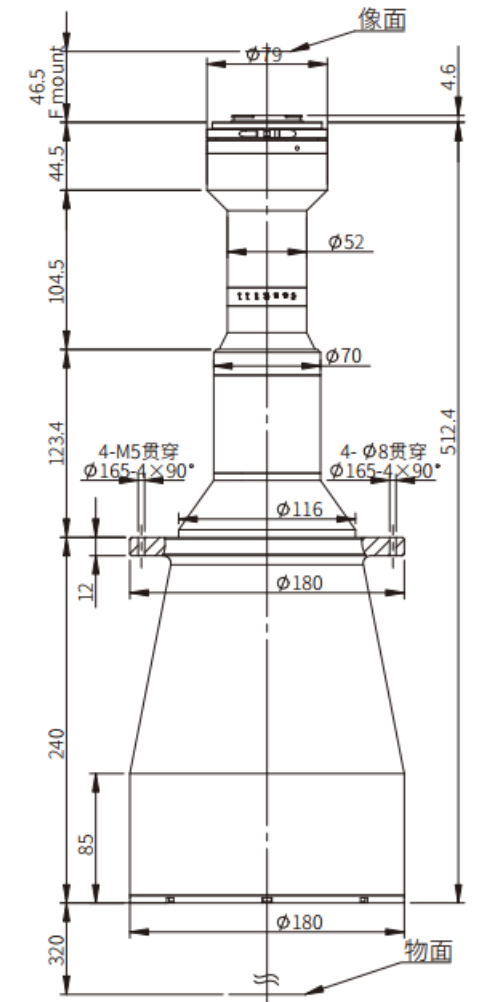
## XF-PTL18238-F

Chip type	71M
Chip length	31
Chip width	22
diagonal	38
Long object field of view	143.5
Wide field of view	101.9
Total length of lens (mm)	560.3
Maximum diameter (mm)	210
O/I (mm)	1004.8
Lens interface	F Mount
Optical distortion (%)	0.062
Resolution (μm)	24.44
aperture	F8
Depth of field (mm)	18.9
Image field (mm)	38
Telecentric design value (°)	0.04
Object field φ (mm)	175.9
Working distance (mm)	398
Optical structure	Double telecentric
Magnification (X)	0.216



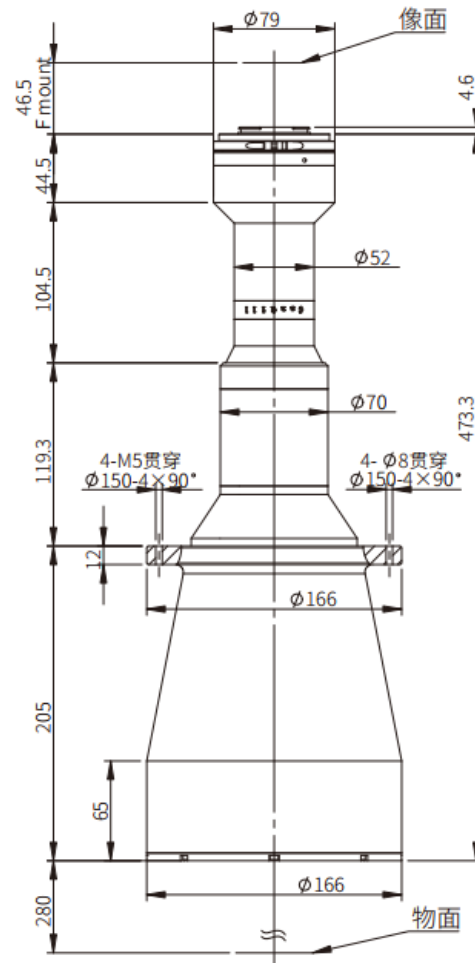
## XF-PTL15238-F

Chip type	71M
Chip length	31
Chip width	22
diagonal	38
Long object field of view	119.2
Wide field of view	84.6
Total length of lens (mm)	512.4
Maximum diameter (mm)	180
O/I (mm)	878.9
Lens interface	F Mount
Optical distortion (%)	0.06
Resolution (μm)	20.35
aperture	F8
Depth of field (mm)	13
Image field (mm)	38
Telecentric design value (°)	0.04
Object field φ (mm)	146.2
Working distance (mm)	320
Optical structure	Double telecentric
Magnification (X)	0.26



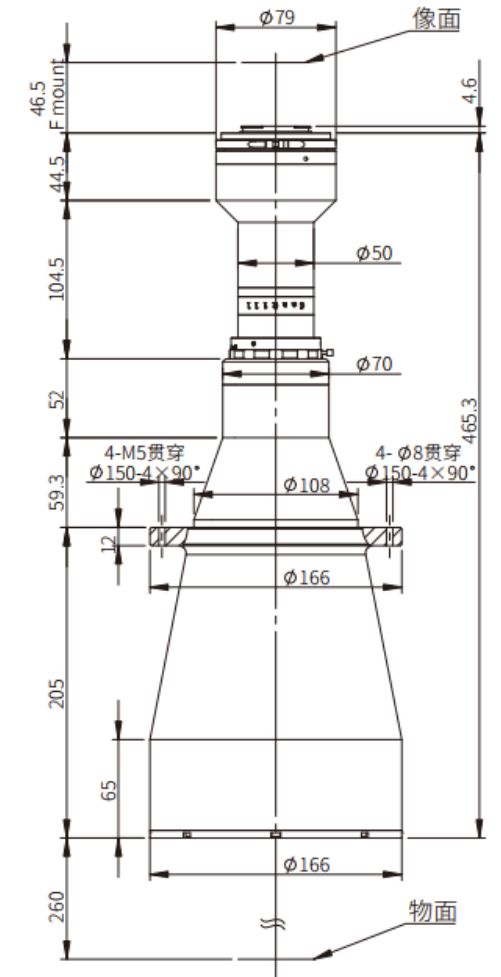
## XF-PTL13738-F

Chip type	71M
Chip length	31
Chip width	22
diagonal	38
Long object field of view	108
Wide field of view	76.7
Total length of lens (mm)	473.3
Maximum diameter (mm)	166
O/I (mm)	799.8
Lens interface	F Mount
Optical distortion (%)	0.062
Resolution (μm)	18.44
aperture	F8
Depth of field (mm)	10.6
Image field (mm)	38
Telecentric design value (°)	0.04
Object field φ (mm)	132.4
Working distance (mm)	280
Optical structure	Double telecentric
Magnification (X)	0.287



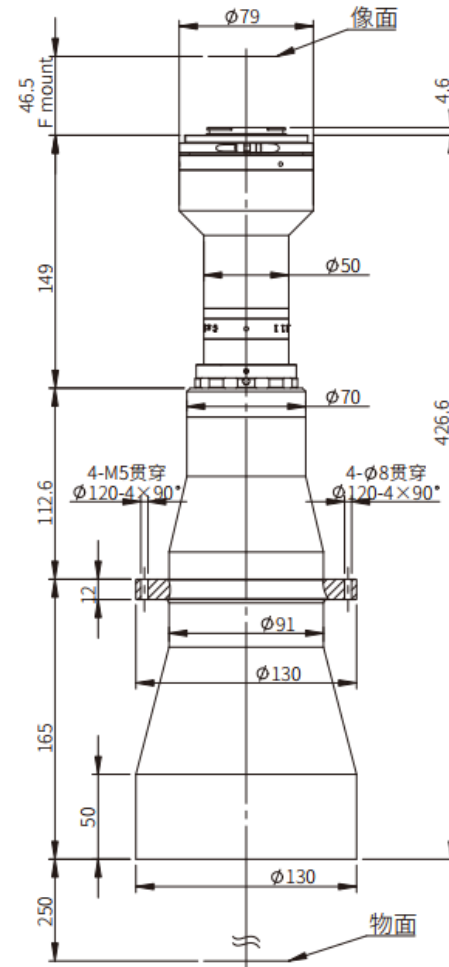
## XF-PTL12238-F-VI

Chip type	71M
Chip length	31
Chip width	22
diagonal	38
Long object field of view	96
Wide field of view	68.1
Total length of lens (mm)	465.3
Maximum diameter (mm)	166
O/I (mm)	771.8
Lens interface	F Mount
Optical distortion (%)	0.058
Resolution (μm)	16.34-103.13
aperture	F8-F50.5
Depth of field (mm)	8.4-53.6
Image field (mm)	38
Telecentric design value (°)	0.04
Object field φ (mm)	117.6
Working distance (mm)	260
Optical structure	Double telecentric
Magnification (X)	0.323



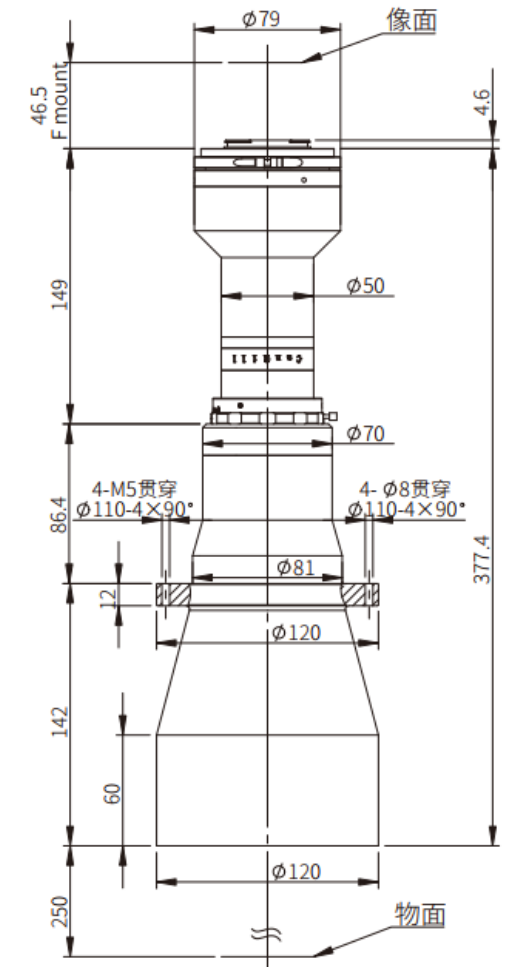
## XF-PTL11038-F-VI

Chip type	71M
Chip length	31
Chip width	22
diagonal	38
Long object field of view	86.8
Wide field of view	61.6
Total length of lens (mm)	426.6
Maximum diameter (mm)	130
O/I (mm)	723.1
Lens interface	F Mount
Optical distortion (%)	0.065
Resolution (μm)	14.8-93.41
aperture	F8-F50.5
Depth of field (mm)	6.9-44.1
Image field (mm)	38
Telecentric design value (°)	0.04
Object field φ (mm)	106.4
Working distance (mm)	250
Optical structure	Double telecentric
Magnification (X)	0.357



## XF-PTL09238-F-VI

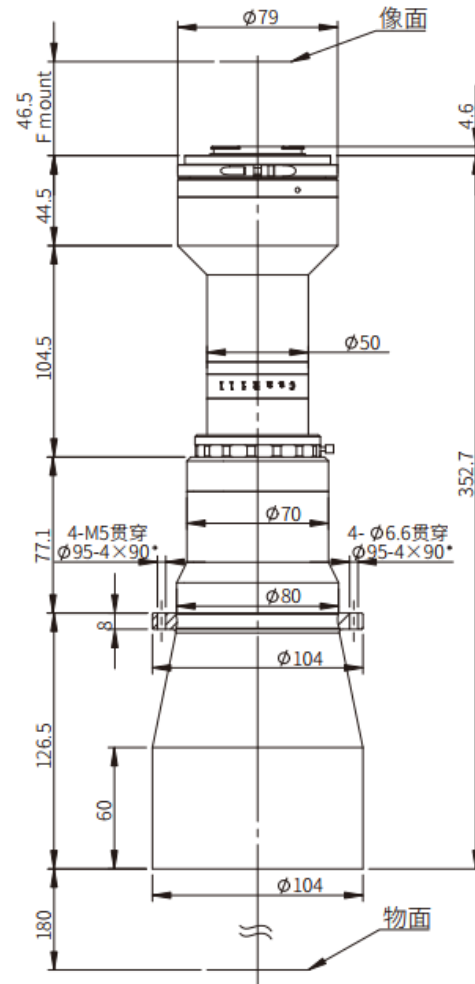
Chip type	71M
Chip length	31
Chip width	22
diagonal	38
Long object field of view	72.1
Wide field of view	51.2
Total length of lens (mm)	377.4
Maximum diameter (mm)	120
O/I (mm)	673.9
Lens interface	F Mount
Optical distortion (%)	0.065
Resolution (μm)	12.3-78
aperture	F8-F51
Depth of field (mm)	4.7-30.6
Image field (mm)	38
Telecentric design value (°)	0.04
Object field φ (mm)	88.4
Working distance (mm)	250
Optical structure	Double telecentric
Magnification (X)	0.43





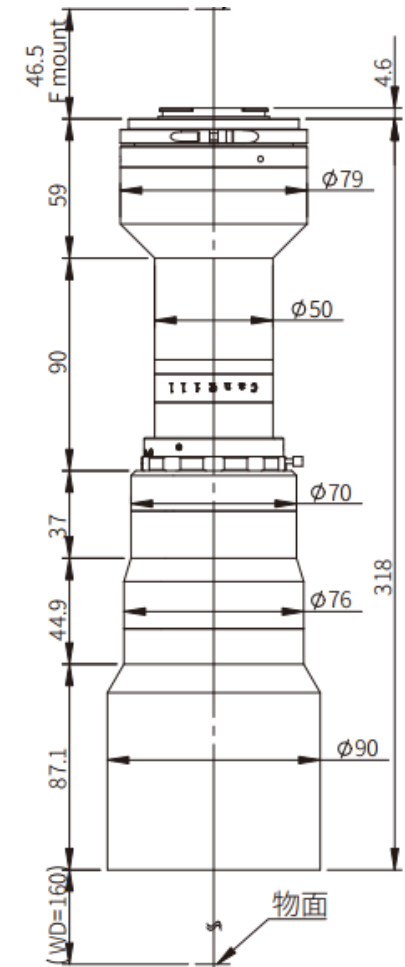
## XF-PTL08038-F-VI

Chip type	71M
Chip length	31
Chip width	22
diagonal	38
Long object field of view	63
Wide field of view	44.7
Total length of lens (mm)	352.7
Maximum diameter (mm)	104
O/I (mm)	579.2
Lens interface	F Mount
Optical distortion (%)	0.06
Resolution (μm)	10.74-68.1
aperture	F8-F51
Depth of field (mm)	3.6-23.3
Image field (mm)	38
Telecentric design value (°)	0.03
Object field φ (mm)	77.2
Working distance (mm)	180
Optical structure	Double telecentric
Magnification (X)	0.492



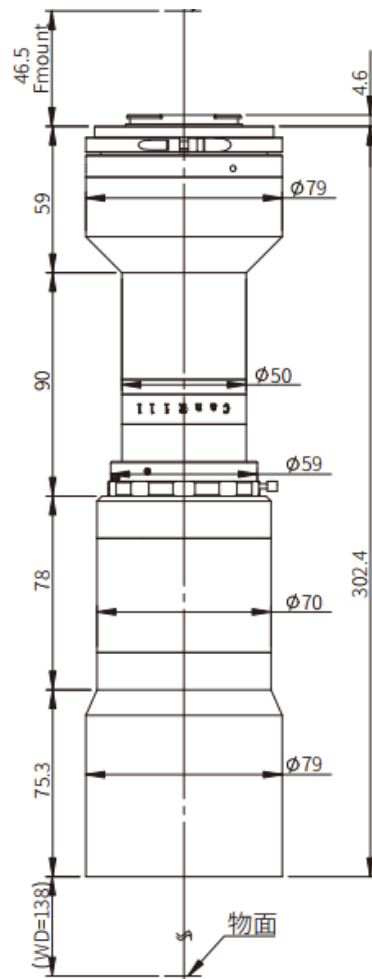
## XF-PTL06538-F-VI

Chip type	71M
Chip length	31
Chip width	22
diagonal	38
Long object field of view	51.2
Wide field of view	36.4
Total length of lens (mm)	318
Maximum diameter (mm)	90
O/I (mm)	524.5
Lens interface	F Mount
Optical distortion (%)	0.062
Resolution (μm)	8.7-55.41
aperture	F8-F50.8
Depth of field (mm)	2.4-15.5
Image field (mm)	38
Telecentric design value (°)	0.03
Object field φ (mm)	62.8
Working distance (mm)	160
Optical structure	Double telecentric
Magnification (X)	0.605



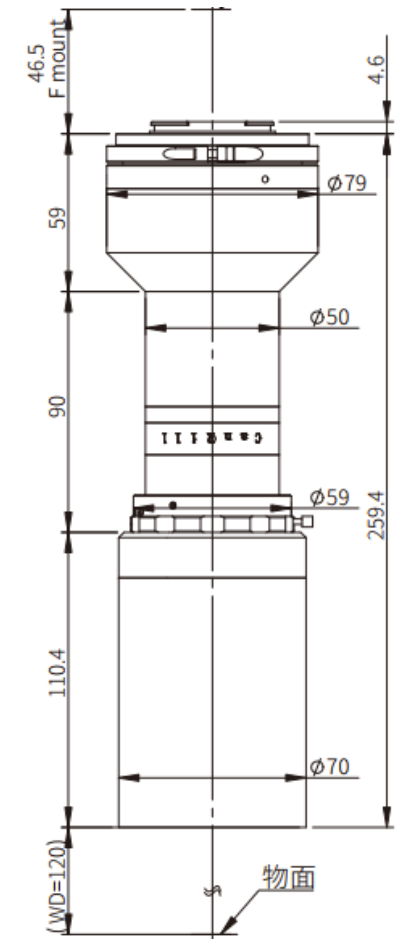
## XF-PTL05538-F-VI

Chip type	71M
Chip length	31
Chip width	22
diagonal	38
Long object field of view	43.4
Wide field of view	30.8
Total length of lens (mm)	302.4
Maximum diameter (mm)	79
O/I (mm)	486.9
Lens interface	F Mount
Optical distortion (%)	0.035
Resolution (μm)	7.4-46.82
aperture	F8-F50.8
Depth of field (mm)	1.7-11
Image field (mm)	38
Telecentric design value (°)	0.04
Object field φ (mm)	53.1
Working distance (mm)	138
Optical structure	Double telecentric
Magnification (X)	0.715



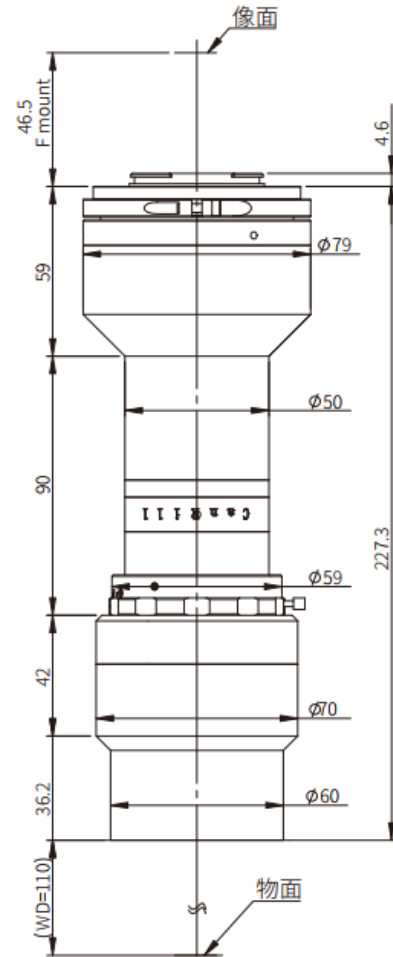
## XF-PTL04538-F-VI

Chip type	71M
Chip length	31
Chip width	22
diagonal	38
Long object field of view	35.5
Wide field of view	25.2
Total length of lens (mm)	259.4
Maximum diameter (mm)	70
O/I (mm)	425.9
Lens interface	F Mount
Optical distortion (%)	0.065
Resolution (μm)	6-38.32
aperture	F8-F50.8
Depth of field (mm)	1.1-7.4
Image field (mm)	38
Telecentric design value (°)	0.03
Object field φ (mm)	43.5
Working distance (mm)	120
Optical structure	Double telecentric
Magnification (X)	0.874



## XF-PTL03738-F-VI

Chip type	71M
Chip length	31
Chip width	22
diagonal	38
Long object field of view	28.9
Wide field of view	20.5
Total length of lens (mm)	227.3
Maximum diameter (mm)	70
O/I (mm)	383.8
Lens interface	F Mount
Optical distortion (%)	0.071
Resolution (μm)	4.9-31.22
aperture	F8-F50.8
Depth of field (mm)	0.7-4.9
Image field (mm)	38
Telecentric design value (°)	0.03
Object field φ (mm)	35.4
Working distance (mm)	110
Optical structure	Double telecentric
Magnification (X)	1.073





큐브아이엔티

Machine Vision System & Component

# THANK YOU

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

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