



Maximum support 35mm 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

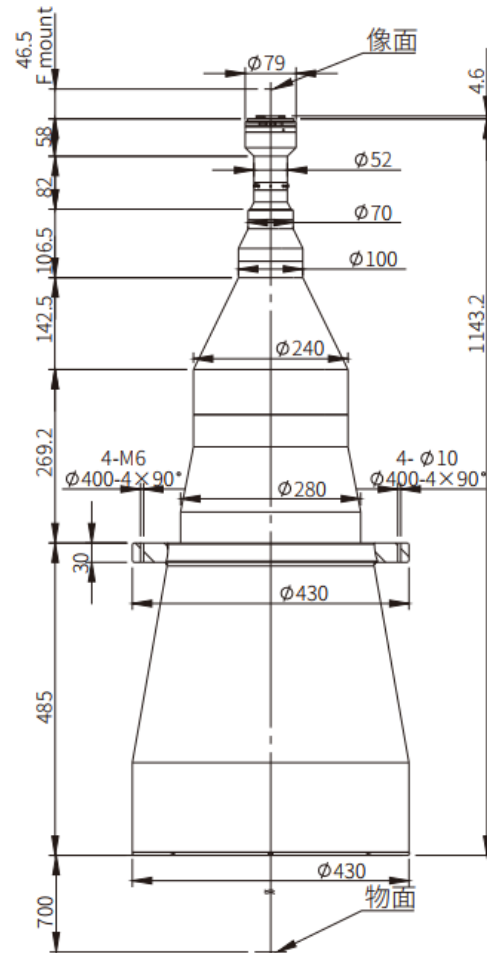


Maximum support 35mm target surface camera

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-PTL39035-F	120M	Double Telecentric	700	0.0929	29.2	20.19	35.5	314.3	217.3	1143.2	430	1889.7	F Mount	0.033	53.31	F7.5	95.1	35	0.04	376.7
XF-PTL35035-F	120M	Double Telecentric	540	0.104	29.2	20.19	35.5	280.8	194.1	922.9	376	1509.4	F Mount	0.031	47.8	F7.5	76.6	35	0.05	336.5
XF-PTL31035-F	120M	Double Telecentric	500	0.117	29.2	20.19	35.5	249.6	172.6	850.6	340	1397.1	F Mount	0.031	42.35	F7.5	60.1	35	0.04	299.1
XF-PTL26835-F	120M	Double Telecentric	410	0.135	29.2	20.19	35.5	216.3	149.6	784.3	300	1240.8	F Mount	0.038	36.6	F7.5	44.9	35	0.04	259.3
XF-PTL23835-F	120M	Double Telecentric	410	0.152	29.2	20.19	35.5	192.1	132.8	725.7	270	1182.2	F Mount	0.03	32.54	F7.5	35.4	35	0.04	230.3
XF-PTL19535-F	120M	Double Telecentric	400	0.186	29.2	20.19	35.5	157	108.5	577.7	222	1024.2	F Mount	0.037	26.62	F7.5	23.8	35	0.04	188.2
XF-PTL18235-F	120M	Double Telecentric	398	0.199	29.2	20.19	35.5	146.7	101.5	551.2	210	995.7	F Mount	0.037	25	F7.5	20.8	35	0.04	175.9
XF-PTL15235-F	120M	Double Telecentric	320	0.239	29.2	20.19	35.5	122.2	84.5	503.3	180	869.8	F Mount	0.035	20.73	F7.5	14.4	35	0.04	146.4
XF-PTL13735-F	120M	Double Telecentric	280	0.264	29.2	20.19	35.5	110.6	76.5	464.2	166	790.7	F Mount	0.038	18.75	F7.5	11.7	35	0.04	132.6
XF-PTL12235-F	120M	Double Telecentric	260	0.297	29.2	20.19	35.5	98.3	68	456.2	166	762.7	F Mount	0.033	16.75	F7.5	9.3	35	0.04	117.8
XF-PTL11035-F-VI	120M	Double Telecentric	250	0.329	29.2	20.19	35.5	88.8	61.4	417.6	130	714.1	F Mount	0.04	15.05-93.41	F7.5-F46.5	7.6-48	35	0.04	106.4
XF-PTL09235-F-VI	120M	Double Telecentric	250	0.395	29.2	20.19	35.5	73.9	51.1	368.3	120	664.8	F Mount	0.042	12.53-77.72	F7.5-F46.5	5.2-33	35	0.04	88.6
XF-PTL08035-F-VI	120M	Double Telecentric	180	0.453	29.2	20.19	35.5	64.5	44.6	343.6	104	570.1	F Mount	0.036	10.94-68.1	F7.5-F47	4-25.4	35	0.03	77.3
XF-PTL06535-F-VI	120M	Double Telecentric	160	0.556	29.2	20.19	35.5	52.5	36.3	309	90	515.5	F Mount	0.04	8.9-55.41	F7.5-F46.7	2.7-16.8	35	0.03	62.9
XF-PTL05535-F-VI	120M	Double Telecentric	138	0.658	29.2	20.19	35.5	44.4	30.7	293.3	79	477.8	F Mount	0.011	7.5-46.82	F7.5-F46.7	1.9-12	35	0.04	53.2
XF-PTL04535-F-VI	120M	Double Telecentric	120	0.805	29.2	20.19	35.5	36.3	25.1	250.3	70	416.8	F Mount	0.041	6.2-38.32	F7.5-F46.7	1.3-8	35	0.03	43.5
XF-PTL03735-F-VI	120M	Double Telecentric	110	0.988	29.2	20.19	35.5	29.6	20.4	218.2	70	374.7	F Mount	0.048	5-31.22	F7.5-F46.7	0.8-5.3	35	0.03	35.4

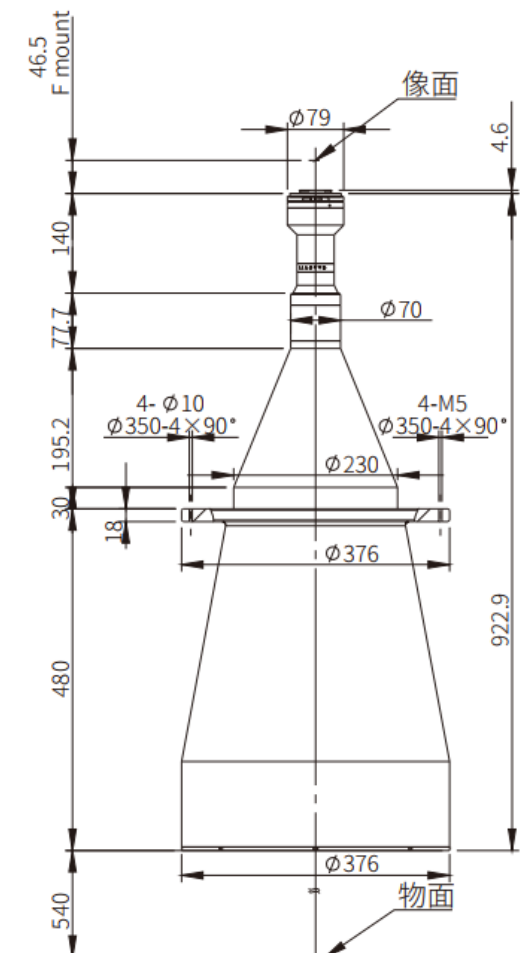
XF-PTL39035-F

Chip type	120M
Chip length	29.2
Chip width	20.19
diagonal	35.5
Long object field of view	314.3
Wide field of view	217.3
Total length of lens (mm)	1143.2
Maximum diameter (mm)	430
O/I (mm)	1889.7
Lens interface	F Mount
Optical distortion (%)	0.033
Resolution (μm)	53.31
aperture	F7.5
Depth of field (mm)	95.1
Image field (mm)	35
Telecentric design value (°)	0.04
Object field φ (mm)	376.7
Working distance (mm)	700
Optical structure	Double telecentric
Magnification (X)	0.0929



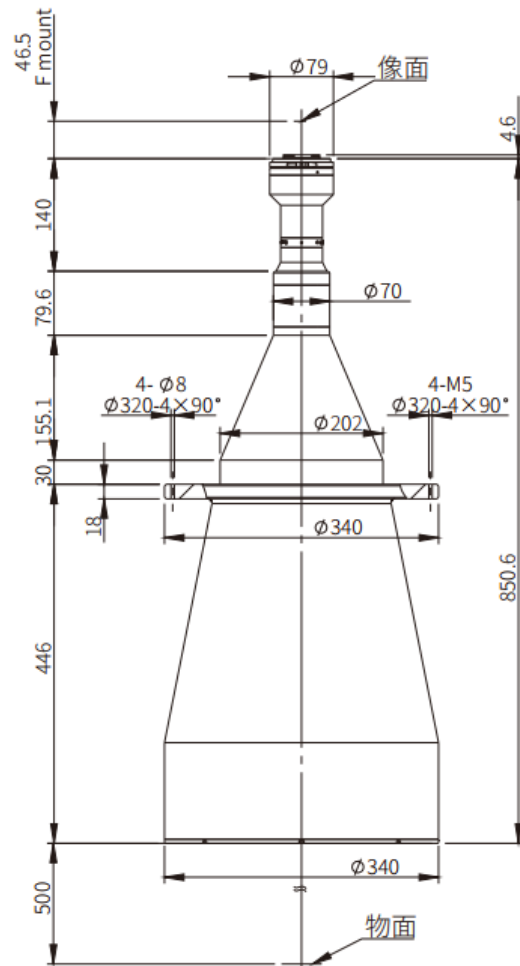
XF-PTL35035-F

Chip type	120M
Chip length	29.2
Chip width	20.19
diagonal	35.5
Long object field of view	280.8
Wide field of view	194.1
Total length of lens (mm)	922.9
Maximum diameter (mm)	376
O/I (mm)	1509.4
Lens interface	F Mount
Optical distortion (%)	0.031
Resolution (μm)	47.8
aperture	F7.5
Depth of field (mm)	76.6
Image field (mm)	35
Telecentric design value (°)	0.05
Object field φ (mm)	336.5
Working distance (mm)	540
Optical structure	Double telecentric
Magnification (X)	0.104



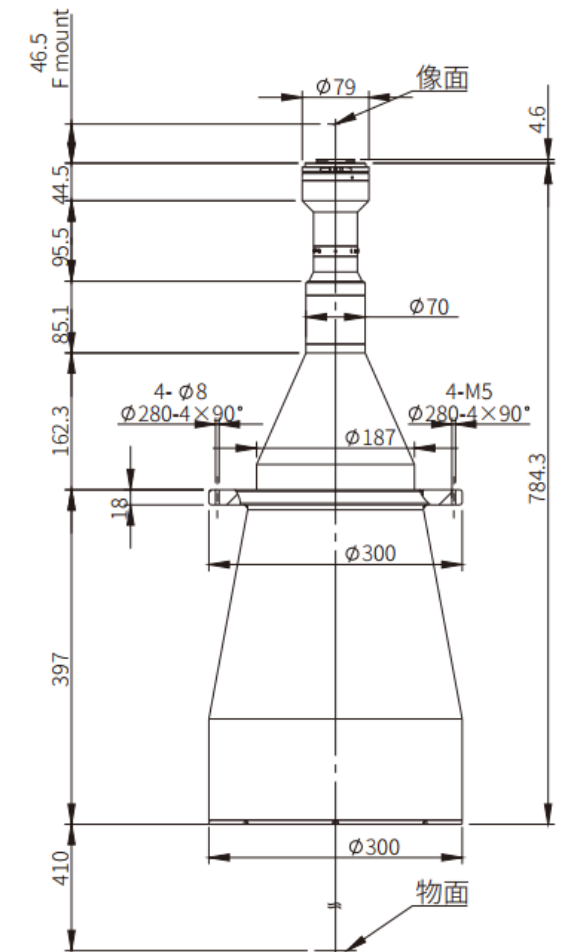
XF-PTL31035-F

Chip type	120M
Chip length	29.2
Chip width	20.19
diagonal	35.5
Long object field of view	249.6
Wide field of view	172.6
Total length of lens (mm)	850.6
Maximum diameter (mm)	340
O/I (mm)	1397.1
Lens interface	F Mount
Optical distortion (%)	0.031
Resolution (μm)	42.35
aperture	F7.5
Depth of field (mm)	60.1
Image field (mm)	35
Telecentric design value (°)	0.04
Object field φ (mm)	299.1
Working distance (mm)	500
Optical structure	Double telecentric
Magnification (X)	0.117



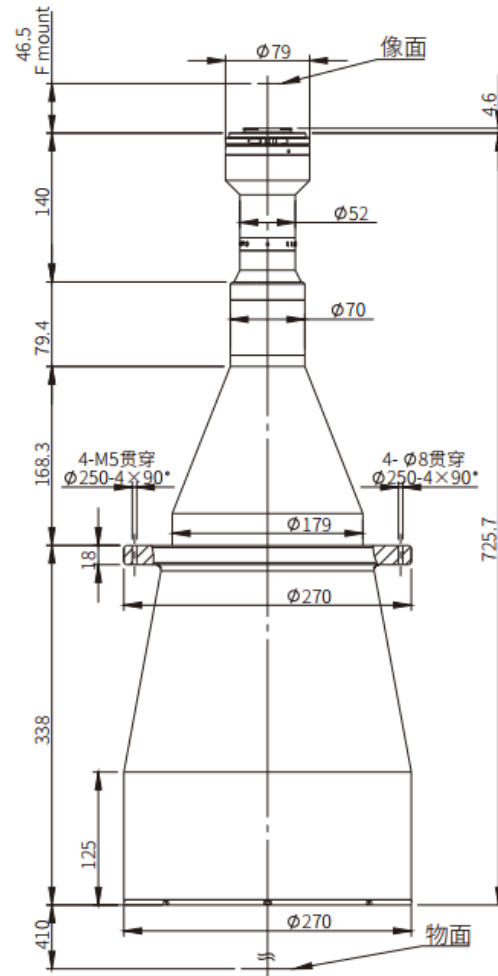
XF-PTL26835-F

Chip type	120M
Chip length	29.2
Chip width	20.19
diagonal	35.5
Long object field of view	216.3
Wide field of view	149.6
Total length of lens (mm)	784.3
Maximum diameter (mm)	300
O/I (mm)	1240.8
Lens interface	F Mount
Optical distortion (%)	0.038
Resolution (μm)	36.6
aperture	F7.5
Depth of field (mm)	44.9
Image field (mm)	35
Telecentric design value (°)	0.04
Object field φ (mm)	259.3
Working distance (mm)	410
Optical structure	Double telecentric
Magnification (X)	0.135



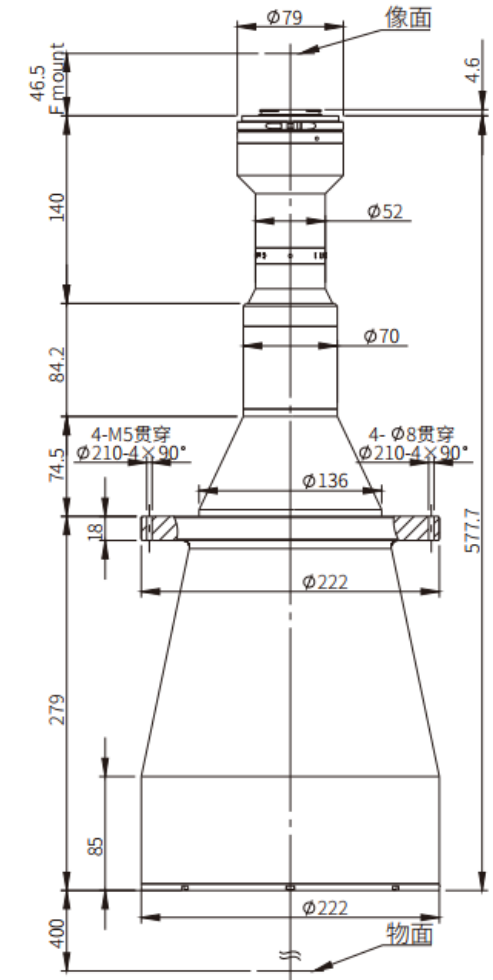
XF-PTL23835-F

Chip type	120M
Chip length	29.2
Chip width	20.19
diagonal	35.5
Long object field of view	192.1
Wide field of view	132.8
Total length of lens (mm)	725.7
Maximum diameter (mm)	270
O/I (mm)	1182.2
Lens interface	F Mount
Optical distortion (%)	0.03
Resolution (μm)	32.54
aperture	F7.5
Depth of field (mm)	35.4
Image field (mm)	35
Telecentric design value (°)	0.04
Object field φ (mm)	230.3
Working distance (mm)	410
Optical structure	Double telecentric
Magnification (X)	0.152



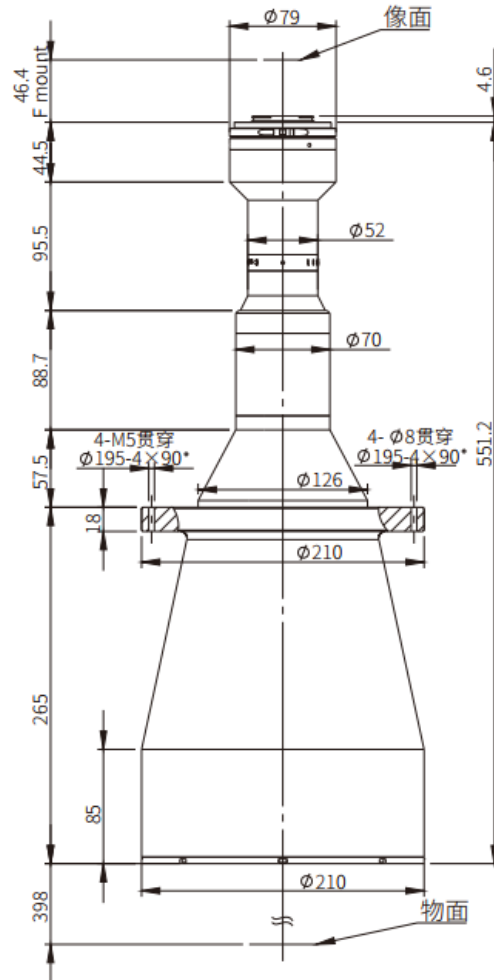
XF-PTL19535-F

Chip type	120M
Chip length	29.2
Chip width	20.19
diagonal	35.5
Long object field of view	157
Wide field of view	108.5
Total length of lens (mm)	577.7
Maximum diameter (mm)	222
O/I (mm)	1024.2
Lens interface	F Mount
Optical distortion (%)	0.037
Resolution (μm)	26.62
aperture	F7.5
Depth of field (mm)	23.8
Image field (mm)	35
Telecentric design value (°)	0.04
Object field φ (mm)	188.2
Working distance (mm)	400
Optical structure	Double telecentric
Magnification (X)	0.186



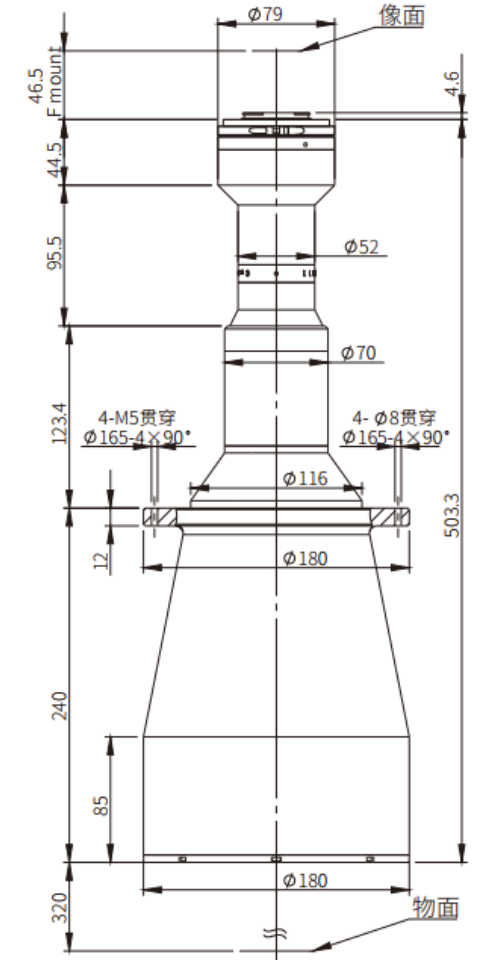
XF-PTL18235-F

Chip type	120M
Chip length	29.2
Chip width	20.19
diagonal	35.5
Long object field of view	146.7
Wide field of view	101.5
Total length of lens (mm)	551.2
Maximum diameter (mm)	210
O/I (mm)	995.7
Lens interface	F Mount
Optical distortion (%)	0.037
Resolution (μm)	25
aperture	F7.5
Depth of field (mm)	20.8
Image field (mm)	35
Telecentric design value (°)	0.04
Object field φ (mm)	175.9
Working distance (mm)	398
Optical structure	Double telecentric
Magnification (X)	0.199



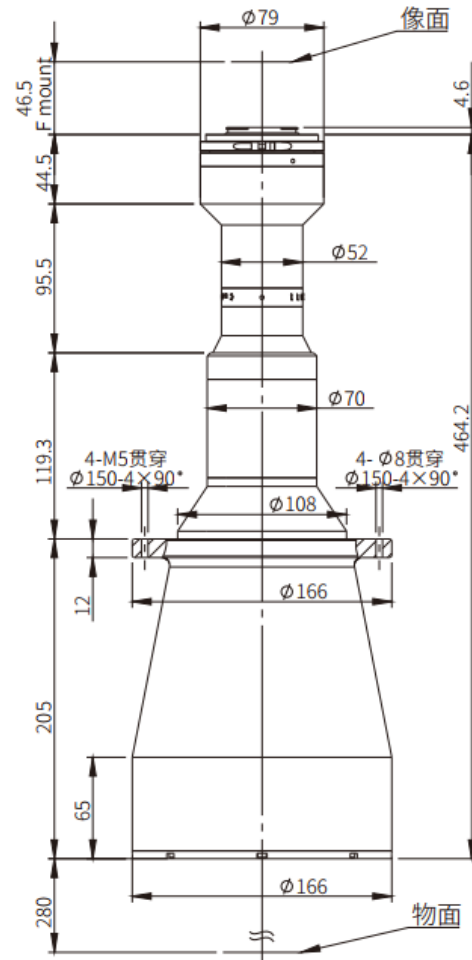
XF-PTL15235-F

Chip type	120M
Chip length	29.2
Chip width	20.19
diagonal	35.5
Long object field of view	122.2
Wide field of view	84.5
Total length of lens (mm)	503.3
Maximum diameter (mm)	180
O/I (mm)	869.8
Lens interface	F Mount
Optical distortion (%)	0.035
Resolution (μm)	20.73
aperture	F7.5
Depth of field (mm)	14.4
Image field (mm)	35
Telecentric design value (°)	0.04
Object field φ (mm)	146.4
Working distance (mm)	320
Optical structure	Double telecentric
Magnification (X)	0.239



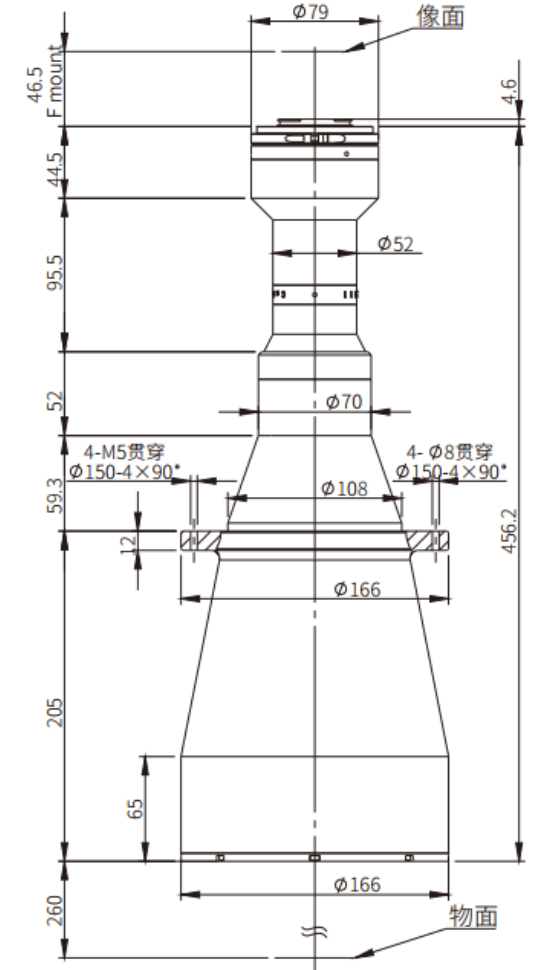
XF-PTL13735-F

Chip type	120M
Chip length	29.2
Chip width	20.19
diagonal	35.5
Long object field of view	110.6
Wide field of view	76.5
Total length of lens (mm)	464.2
Maximum diameter (mm)	166
O/I (mm)	790.7
Lens interface	F Mount
Optical distortion (%)	0.038
Resolution (μm)	18.75
aperture	F7.5
Depth of field (mm)	11.7
Image field (mm)	35
Telecentric design value (°)	0.04
Object field φ (mm)	132.6
Working distance (mm)	280
Optical structure	Double telecentric
Magnification (X)	0.264



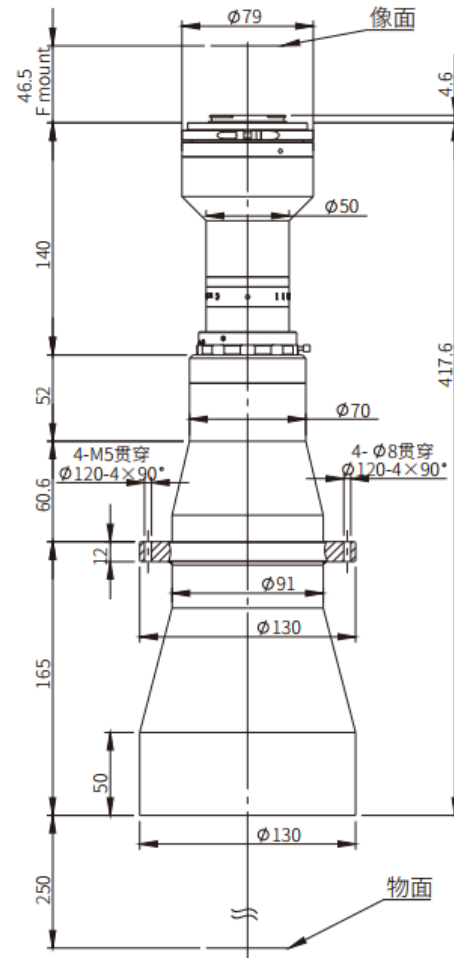
XF-PTL12235-F

Chip type	120M
Chip length	29.2
Chip width	20.19
diagonal	35.5
Long object field of view	98.3
Wide field of view	68
Total length of lens (mm)	456.2
Maximum diameter (mm)	166
O/I (mm)	762.7
Lens interface	F Mount
Optical distortion (%)	0.033
Resolution (μm)	16.75
aperture	F7.5
Depth of field (mm)	9.3
Image field (mm)	35
Telecentric design value (°)	0.04
Object field φ (mm)	117.8
Working distance (mm)	260
Optical structure	Double telecentric
Magnification (X)	0.297



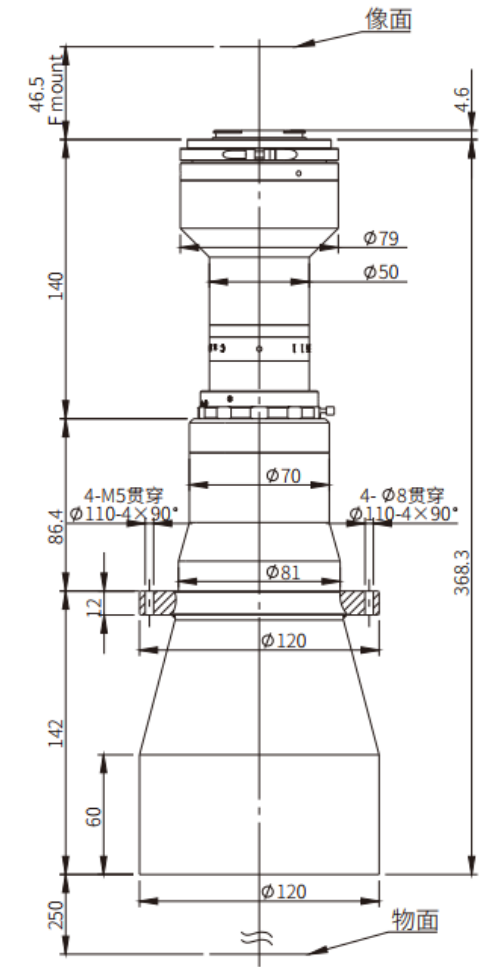
XF-PTL11035-F-VI

Chip type	120M
Chip length	29.2
Chip width	20.19
diagonal	35.5
Long object field of view	88.8
Wide field of view	61.4
Total length of lens (mm)	417.6
Maximum diameter (mm)	130
O/I (mm)	714.1
Lens interface	F Mount
Optical distortion (%)	0.04
Resolution (μm)	15.05-93.41
aperture	F7.5-F46.5
Depth of field (mm)	7.6-48
Image field (mm)	35
Telecentric design value (°)	0.04
Object field φ (mm)	106.4
Working distance (mm)	250
Optical structure	Double telecentric
Magnification (X)	0.329



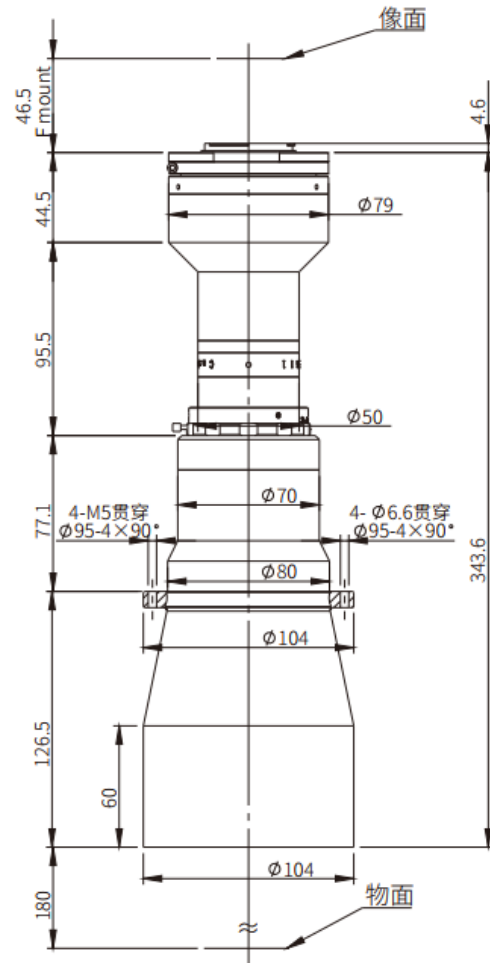
XF-PTL09235-F-VI

Chip type	120M
Chip length	29.2
Chip width	20.19
diagonal	35.5
Long object field of view	73.9
Wide field of view	51.1
Total length of lens (mm)	368.3
Maximum diameter (mm)	120
O/I (mm)	664.8
Lens interface	F Mount
Optical distortion (%)	0.042
Resolution (μm)	12.53-77.72
aperture	F7.5-F46.5
Depth of field (mm)	5.2-33
Image field (mm)	35
Telecentric design value (°)	0.04
Object field φ (mm)	88.6
Working distance (mm)	250
Optical structure	Double telecentric
Magnification (X)	0.395



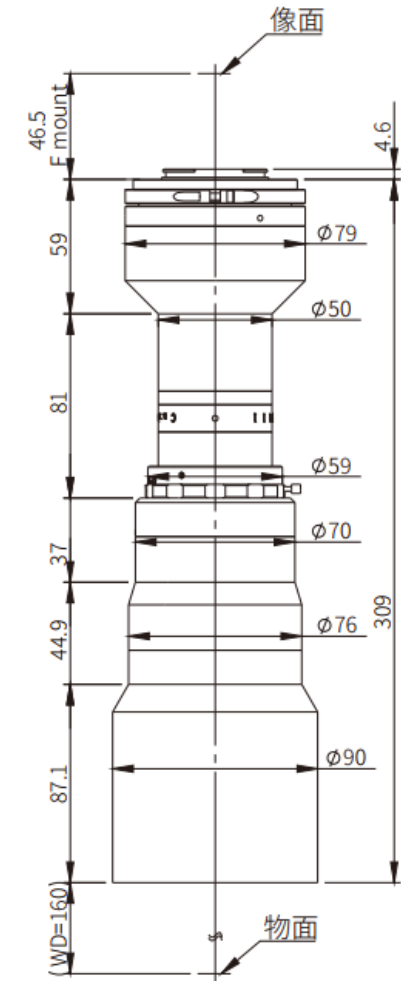
XF-PTL08035-F-VI

Chip type	120M
Chip length	29.2
Chip width	20.19
diagonal	35.5
Long object field of view	64.5
Wide field of view	44.6
Total length of lens (mm)	343.6
Maximum diameter (mm)	104
O/I (mm)	570.1
Lens interface	F Mount
Optical distortion (%)	0.036
Resolution (μm)	10.94-68.1
aperture	F7.5-F47
Depth of field (mm)	4-25.4
Image field (mm)	35
Telecentric design value (°)	0.03
Object field φ (mm)	77.3
Working distance (mm)	180
Optical structure	Double telecentric
Magnification (X)	0.453



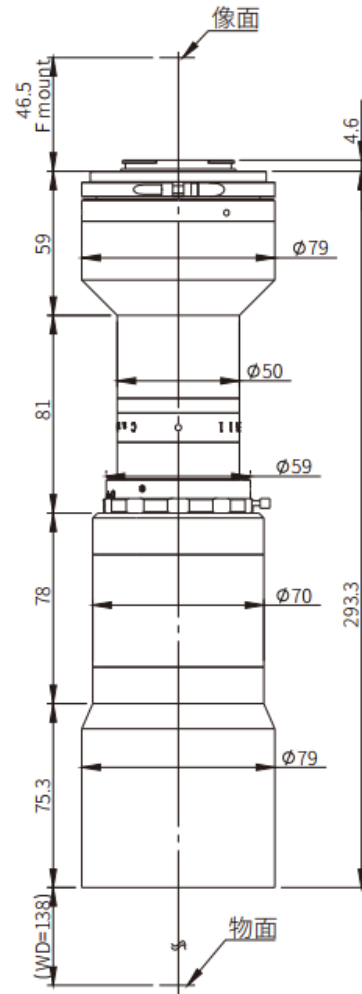
XF-PTL06535-F-VI

Chip type	120M
Chip length	29.2
Chip width	20.19
diagonal	35.5
Long object field of view	52.5
Wide field of view	36.3
Total length of lens (mm)	309
Maximum diameter (mm)	90
O/I (mm)	515.5
Lens interface	F Mount
Optical distortion (%)	0.04
Resolution (μm)	8.9-55.41
aperture	F7.5-F46.7
Depth of field (mm)	2.7-16.8
Image field (mm)	35
Telecentric design value (°)	0.03
Object field φ (mm)	62.9
Working distance (mm)	160
Optical structure	Double telecentric
Magnification (X)	0.556



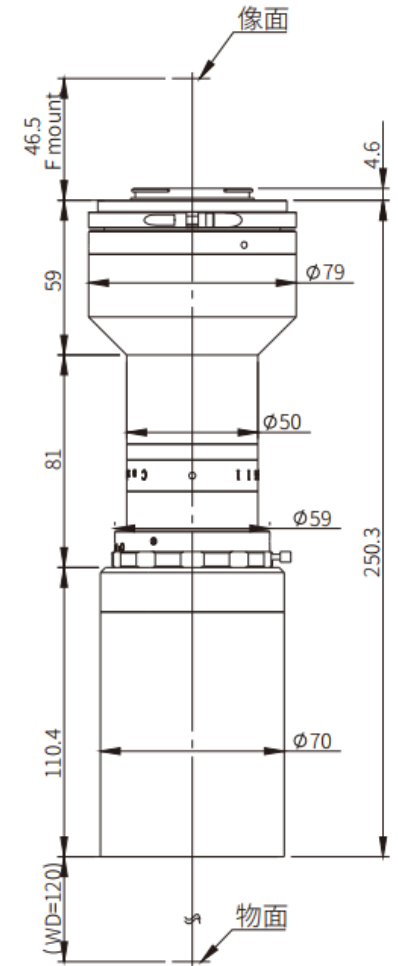
XF-PTL05535-F-VI

Chip type	120M
Chip length	29.2
Chip width	20.19
diagonal	35.5
Long object field of view	44.4
Wide field of view	30.7
Total length of lens (mm)	293.3
Maximum diameter (mm)	79
O/I (mm)	477.8
Lens interface	F Mount
Optical distortion (%)	0.011
Resolution (μm)	7.5-46.82
aperture	F7.5-F46.7
Depth of field (mm)	1.9-12
Image field (mm)	35
Telecentric design value (°)	0.04
Object field φ (mm)	53.2
Working distance (mm)	138
Optical structure	Double telecentric
Magnification (X)	0.658



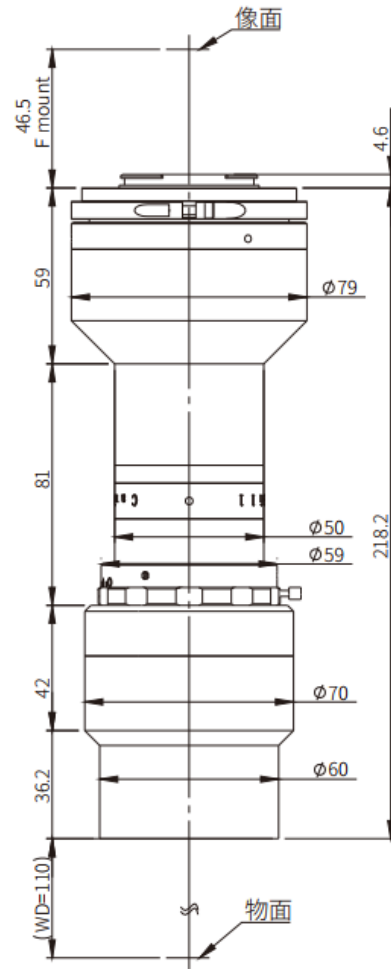
XF-PTL04535-F-VI

Chip type	120M
Chip length	29.2
Chip width	20.19
diagonal	35.5
Long object field of view	36.3
Wide field of view	25.1
Total length of lens (mm)	250.3
Maximum diameter (mm)	70
O/I (mm)	416.8
Lens interface	F Mount
Optical distortion (%)	0.041
Resolution (μm)	6.2-38.32
aperture	F7.5-F46.7
Depth of field (mm)	1.3-8
Image field (mm)	35
Telecentric design value (°)	0.03
Object field φ (mm)	43.5
Working distance (mm)	120
Optical structure	Double telecentric
Magnification (X)	0.805



XF-PTL03735-F-VI

Chip type	120M
Chip length	29.2
Chip width	20.19
diagonal	35.5
Long object field of view	29.6
Wide field of view	20.4
Total length of lens (mm)	218.2
Maximum diameter (mm)	70
O/I (mm)	374.7
Lens interface	F Mount
Optical distortion (%)	0.048
Resolution (μm)	5-31.22
aperture	F7.5-F46.7
Depth of field (mm)	0.8-5.3
Image field (mm)	35
Telecentric design value (°)	0.03
Object field φ (mm)	35.4
Working distance (mm)	110
Optical structure	Double telecentric
Magnification (X)	0.988





큐브아이엔티

Machine Vision System & Component

THANK YOU

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

담당: 이재훈 팀장 / M : 010-6606-8116 / E : int@cubefa.co.kr