

## CR 16K Line Scan (82mm) Telecentric Lens

- Specially designed for large image circle up to 82mm in length
- Suitable for line scan cameras such as 16K x 5 $\mu$ m, 16K x 3.5 $\mu$ m, 12K x 5 $\mu$ m, 8K x 7 $\mu$ m, etc, and area scan camera such as 155 mega pixels, 151 mega pixels
- Adjustable iris is adopted to balance the DOF and resolution perfectly
- Excellent uniformity and little-to-no distortion
- Some models support inner L90 steering, saving installation space
- 16 standard models available, support object FOV from 45mm to 390mm
- Long working distance from 120mm to 700mm
- M95 Mount, support customized mount



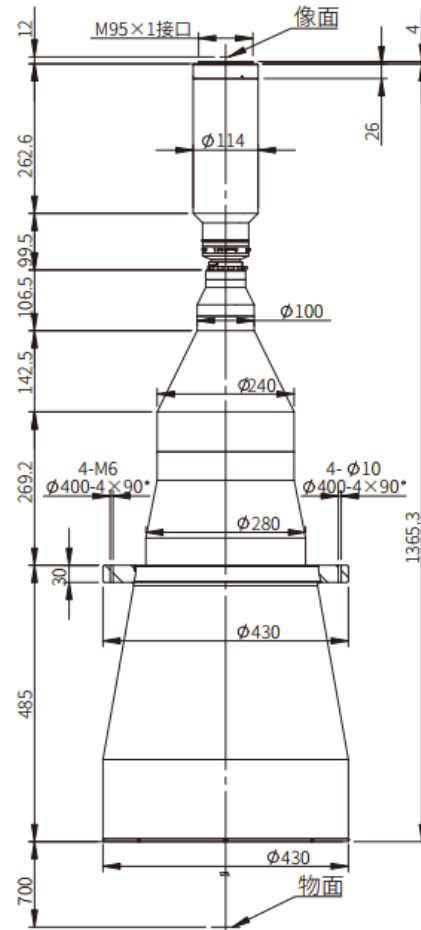


# 16K Line Scan (82mm) Telecentric Lens

MODEL	Chip type	Optical structure	Mag (X)	WD (mm)	Diagonal	Long object FOV	Total length of lens (mm)	Maximum diameter (mm)	O/I (mm)	Lens interface	Optical Distortion	Resolution (μm)	Aperture	Depth of field (mm)	Image field (mm)	Telecentricity (°)	Object field φ (mm)
XF-PTL39082-M95-12-VI	16k x 5μm	Double telecentric	0.222	700	81.92	369	1365.3	430	2077.3	M95	0.045	40.2@F13.5	F8-F111	29.3@F13.5	82	0.04	369.4
XF-PTL35082-M95-12-VI	16k x 5μm	Double telecentric	0.247	540	81.92	331.7	1145	376	1697	M95	0.043	36.1@F13.5	F8-F111	24.3@F13.5	82	0.05	332
XF-PTL31082-M95-12-VI	16k x 5μm	Double telecentric	0.279	500	81.92	293.6	1072.7	340	1584.7	M95	0.041	31.9@F13.5	F8-F111	19.2@F13.5	82	0.04	293.9
XF-PTL26882-M95-12-VI	16k x 5μm	Double telecentric	0.323	410	81.92	253.6	1006.4	300	1,428.40	M95	0.04	27.6@F13.5	F8-F111	14@F13.5	82	0.04	253.9
XF-PTL23882-M95-12-VI	16k x 5μm	Double telecentric	0.363	410	81.92	225.7	947.8	270	1369.8	M95	0.034	24.5@F13.5	F8-F111	11.3@F13.5	82	0.04	225.9
XF-PTL19582-M95-12-VI	16k x 5μm	Double telecentric	0.444	400	81.92	184.5	799.8	222	1211.8	M95	0.042	20.1@F13.5	F8-F111	7.3@F13.5	82	0.04	184.7
XF-PTL18282-M95-12-VI	16k x 5μm	Double telecentric	0.475	398	81.92	172.5	773.3	210	1183.3	M95	0.043	18.8@F13.5	F8-F111	6.2@F13.5	82	0.04	172.6
XF-PTL15282-M95-12-VI	16k x 5μm	Double telecentric	0.57	320	81.92	143.7	725.4	180	1057.4	M95	0.04	15.6@F13.5	F8-F111	4.3@F13.5	82	0.04	143.9
XF-PTL13782-M95-12-VI	16k x 5μm	Double telecentric	0.631	280	81.92	129.8	686.3	166	978.3	M95	0.039	14.1@F13.5	F8-F111	3.4@F13.5	82	0.04	130
XF-PTL12282-M95-12-VI	16k x 5μm	Double telecentric	0.708	260	81.29	115.7	678.3	166	950.3	M95	0.035	12.6@F13.5	F8-F111	2.7@F13.5	82	0.04	115.8
XF-PTL11082-M95-12-VI	16k x 5μm	Double telecentric	0.785	250	81.92	104.4	639.6	130	901.6	M95	0.03	11.3@F13.5	F8-F111	2.2@F13.5	82	0.04	82
XF-PTL09282-M95-12-VI	16k x 5μm	Double telecentric	0.943	250	81.92	86.9	590.4	120	852.4	M95	0.032	9.5@F13.5	F8-F111	1.5@F13.5	82	0.04	87
XF-PTL08082-M95-12-VI	16k x 5μm	Double telecentric	1.08	180	81.92	75.9	565.7	104	757.7	M95	0.031	8.3@F13.5	F8-F111	1.2@F13.5	82	0.03	75.9
XF-PTL06582-M95-12-VI	16k x 5μm	Double telecentric	1.328	160	81.92	61.7	531	90	703	M95	0.028	6.7@F13.5	F8-F111	0.8@F13.5	82	0.03	61.7
XF-PTL05582-M95-12-VI	16k x 5μm	Double telecentric	1.571	138	81.92	52.1	515.4	79	665.4	M95	0.054	7.57@F18	F8-F111	0.8@F18	82	0.04	52.2
XF-PTL04582-M95-12-VI	16k x 5μm	Double telecentric	1.92	120	81.92	42.7	472.4	70	604.4	M95	0.034	6.20@F18	F8-F111	0.5@F18	82	0.03	42.7

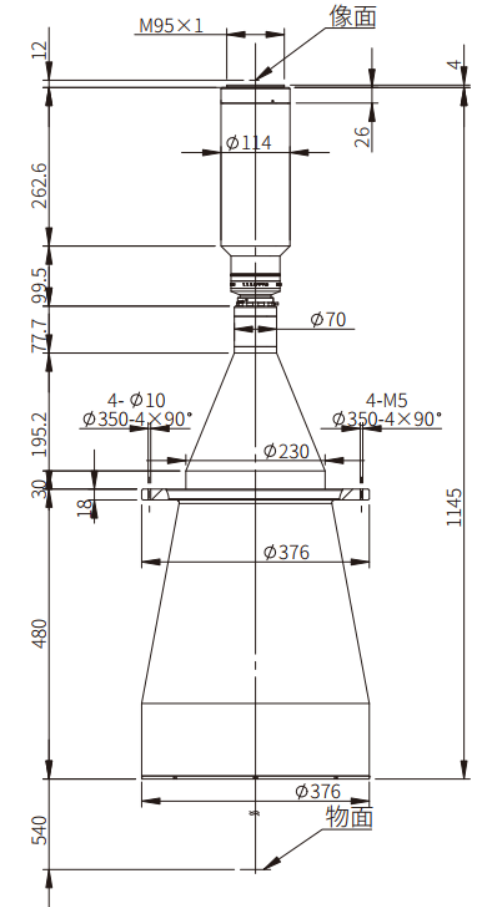
## XF-PTL39082-M95-12-VI

Chip type	16k x 5 $\mu$ m
diagonal	81.92
Long object field of view	369
Total length of lens (mm)	1365.3
Maximum diameter (mm)	430
O/I (mm)	2,077.30
Lens interface	M95 interface
Optical distortion (%)	0.045
Resolution ( $\mu$ m)	40.2@F13.5
aperture	F8-F111
Depth of field (mm)	29.3@F13.5
Image field (mm)	82
Telecentric design value (°)	0.04
Object field $\phi$ (mm)	369.4
Working distance (mm)	700
Optical structure	Double telecentric
Magnification (X)	0.222



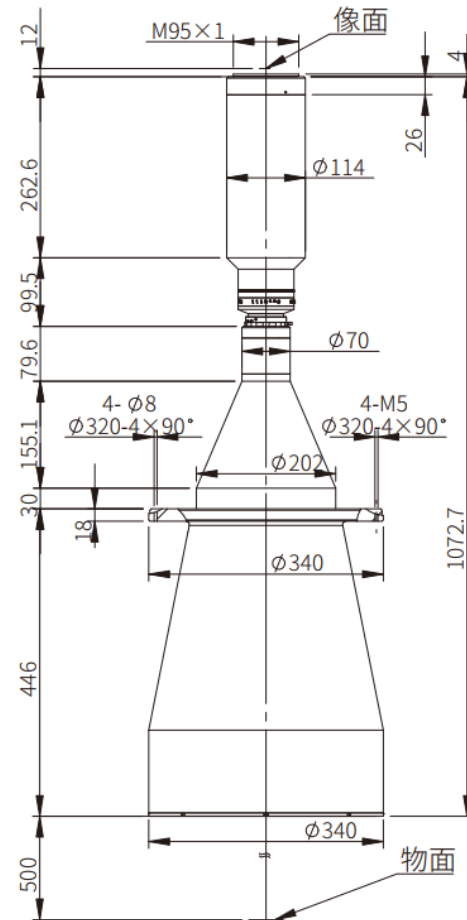
## XF-PTL35082-M95-12-VI

Chip type	16k x 5 $\mu$ m
diagonal	81.92
Long object field of view	331.7
Total length of lens (mm)	1145
Maximum diameter (mm)	376
O/I (mm)	1697
Lens interface	M95 interface
Optical distortion (%)	0.043
Resolution ( $\mu$ m)	36.1@F13.5
aperture	F8-F111
Depth of field (mm)	24.3@F13.5
Image field (mm)	82
Telecentric design value (°)	0.05
Object field $\phi$ (mm)	332
Working distance (mm)	540
Optical structure	Double telecentric
Magnification (X)	0.247



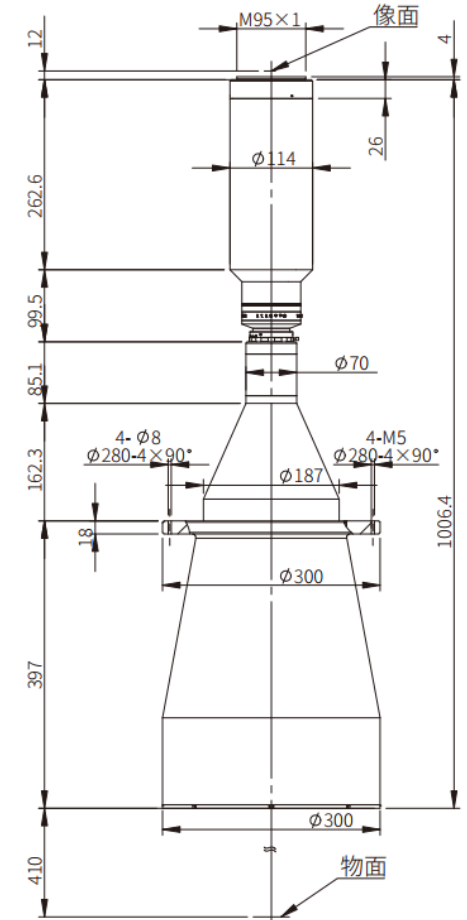
## XF-PTL31082-M95-12-VI

Chip type	16k x 5μm
diagonal	81.92
Long object field of view	293.6
Total length of lens (mm)	1072.7
Maximum diameter (mm)	340
O/I (mm)	1584.7
Lens interface	M95 interface
Optical distortion (%)	0.041
Resolution (μm)	31.9@F13.5
aperture	F8-F111
Depth of field (mm)	19.2@F13.5
Image field (mm)	82
Telecentric design value (°)	0.04
Object field φ (mm)	293.9
Working distance (mm)	500
Optical structure	Double telecentric
Magnification (X)	0.279



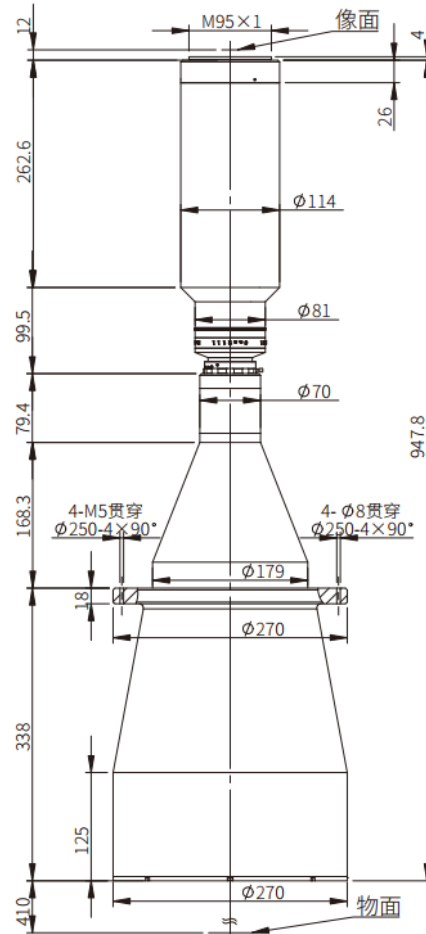
## XF-PTL26882-M95-12-VI

Chip type	16k x 5μm
diagonal	81.92
Long object field of view	253.6
Total length of lens (mm)	1006.4
Maximum diameter (mm)	300
O/I (mm)	1,428.40
Lens interface	M95 interface
Optical distortion (%)	0.04
Resolution (μm)	27.6@F13.5
aperture	F8-F111
Depth of field (mm)	14@F13.5
Image field (mm)	82
Telecentric design value (°)	0.04
Object field φ (mm)	253.9
Working distance (mm)	410
Optical structure	Double telecentric
Magnification (X)	0.323



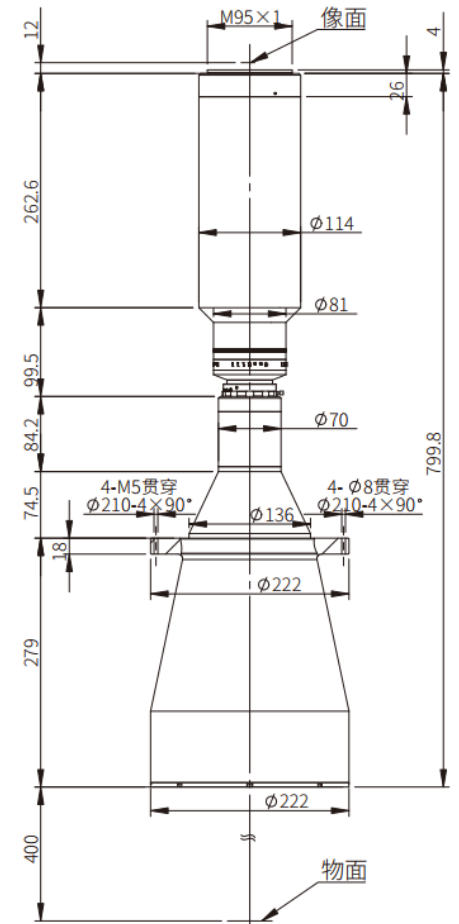
## XF-PTL23882-M95-12-VI

Chip type	16k x 5μm
diagonal	81.92
Long object field of view	225.7
Total length of lens (mm)	947.8
Maximum diameter (mm)	270
O/I (mm)	1369.8
Lens interface	M95 interface
Optical distortion (%)	0.034
Resolution (μm)	24.5@F13.5
aperture	F8-F111
Depth of field (mm)	11.3@F13.5
Image field (mm)	82
Telecentric design value (°)	0.04
Object field φ (mm)	225.9
Working distance (mm)	410
Optical structure	Double telecentric
Magnification (X)	0.363



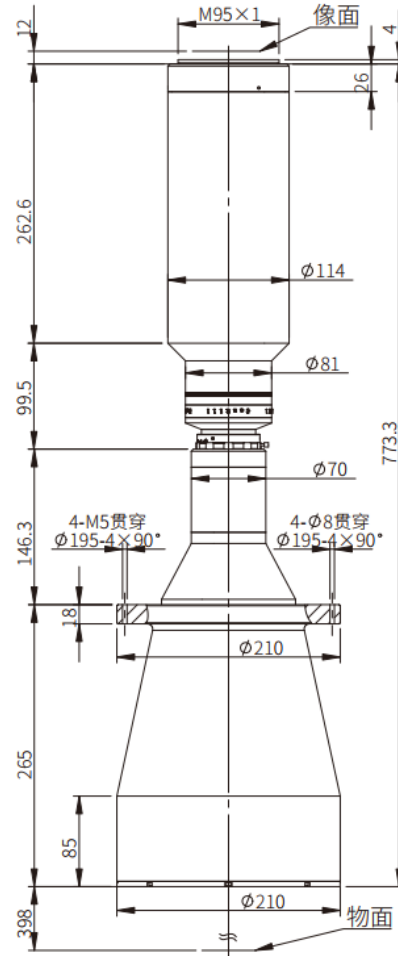
## XF-PTL19582-M95-12-VI

Chip type	16k x 5μm
diagonal	81.92
Long object field of view	184.5
Total length of lens (mm)	799.8
Maximum diameter (mm)	222
O/I (mm)	1211.8
Lens interface	M95 interface
Optical distortion (%)	0.042
Resolution (μm)	20.1@F13.5
aperture	F8-F111
Depth of field (mm)	7.3@F13.5
Image field (mm)	82
Telecentric design value (°)	0.04
Object field φ (mm)	184.7
Working distance (mm)	400
Optical structure	Double telecentric
Magnification (X)	0.444



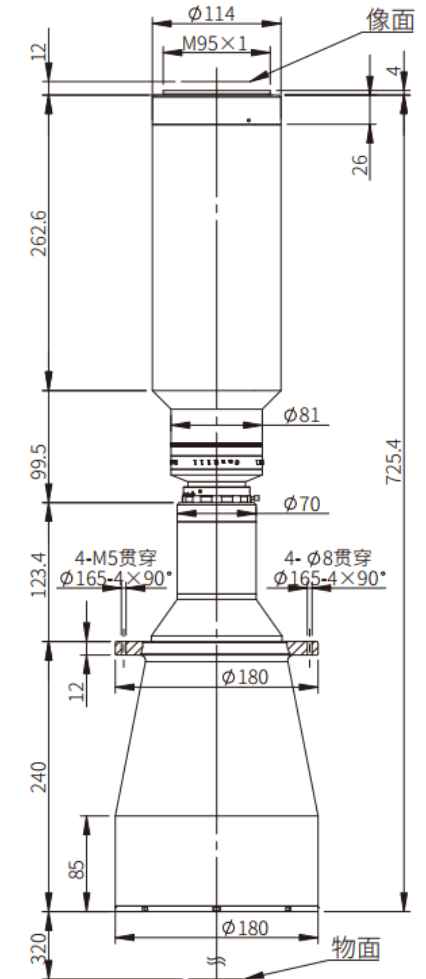
## XF-PTL18282-M95-12-VI

Chip type	16k x 5μm
diagonal	81.92
Long object field of view	172.5
Total length of lens (mm)	773.3
Maximum diameter (mm)	210
O/I (mm)	1183.3
Lens interface	M95 interface
Optical distortion (%)	0.043
Resolution (μm)	18.8@F13.5
aperture	F8-F111
Depth of field (mm)	6.2@F13.5
Image field (mm)	82
Telecentric design value (°)	0.04
Object field φ (mm)	172.6
Working distance (mm)	398
Optical structure	Double telecentric
Magnification (X)	0.475



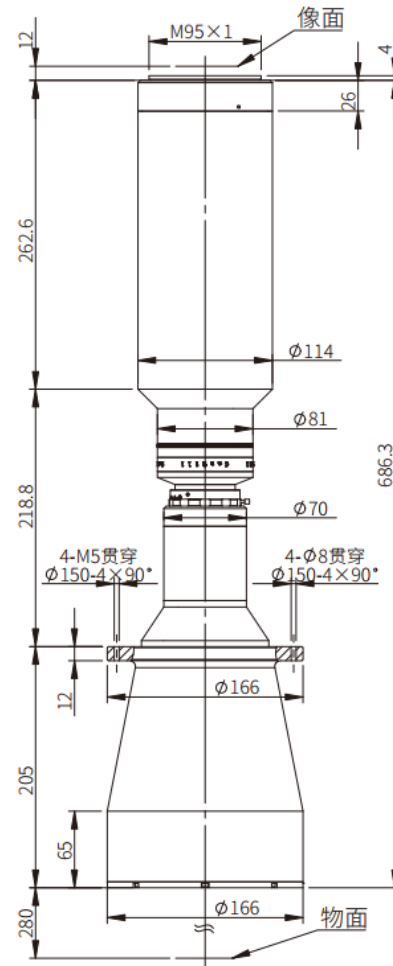
## XF-PTL15282-M95-12-VI

Chip type	16k x 5μm
diagonal	81.92
Long object field of view	143.7
Total length of lens (mm)	725.4
Maximum diameter (mm)	180
O/I (mm)	1057.4
Lens interface	M95 interface
Optical distortion (%)	0.04
Resolution (μm)	15.6@F13.5
aperture	F8-F111
Depth of field (mm)	4.3@F13.5
Image field (mm)	82
Telecentric design value (°)	0.04
Object field φ (mm)	143.9
Working distance (mm)	320
Optical structure	Double telecentric
Magnification (X)	0.57



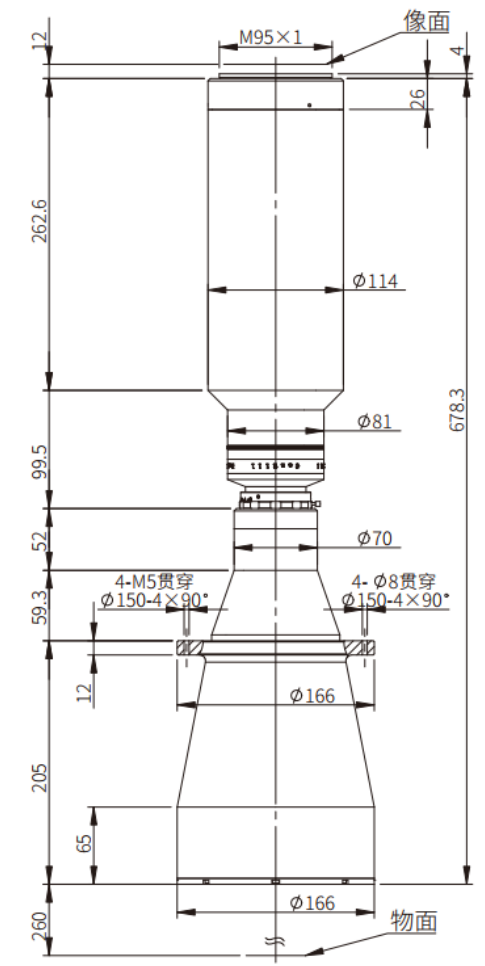
## XF-PTL13782-M95-12-VI

Chip type	16k x 5μm
diagonal	81.92
Long object field of view	129.8
Total length of lens (mm)	686.3
Maximum diameter (mm)	166
O/I (mm)	978.3
Lens interface	M95 interface
Optical distortion (%)	0.039
Resolution (μm)	14.1@F13.5
aperture	F8-F111
Depth of field (mm)	3.4@F13.5
Image field (mm)	82
Telecentric design value (°)	0.04
Object field φ (mm)	130
Working distance (mm)	280
Optical structure	Double telecentric
Magnification (X)	0.631



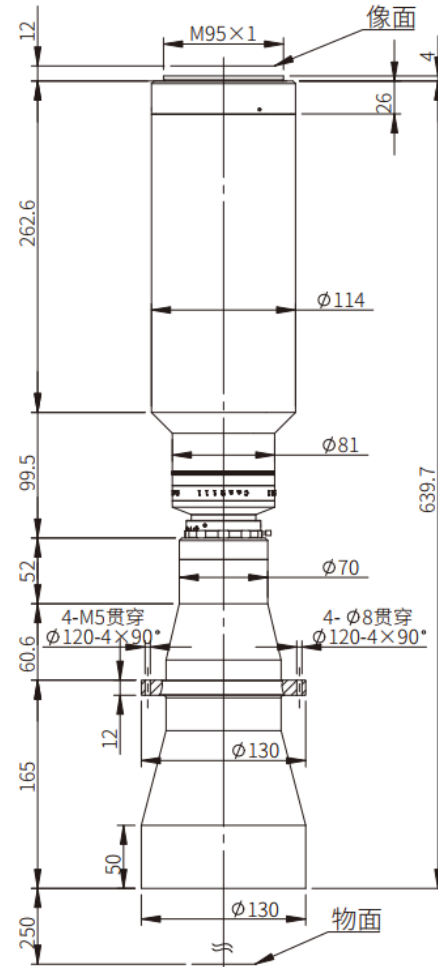
## XF-PTL12282-M95-12-VI

Chip type	16k x 5μm
diagonal	81.92
Long object field of view	115.7
Total length of lens (mm)	678.3
Maximum diameter (mm)	166
O/I (mm)	950.3
Lens interface	M95 interface
Optical distortion (%)	0.035
Resolution (μm)	12.6@F13.5
aperture	F8-F111
Depth of field (mm)	2.7@F13.5
Image field (mm)	82
Telecentric design value (°)	0.04
Object field φ (mm)	115.8
Working distance (mm)	260
Optical structure	Double telecentric
Magnification (X)	0.708



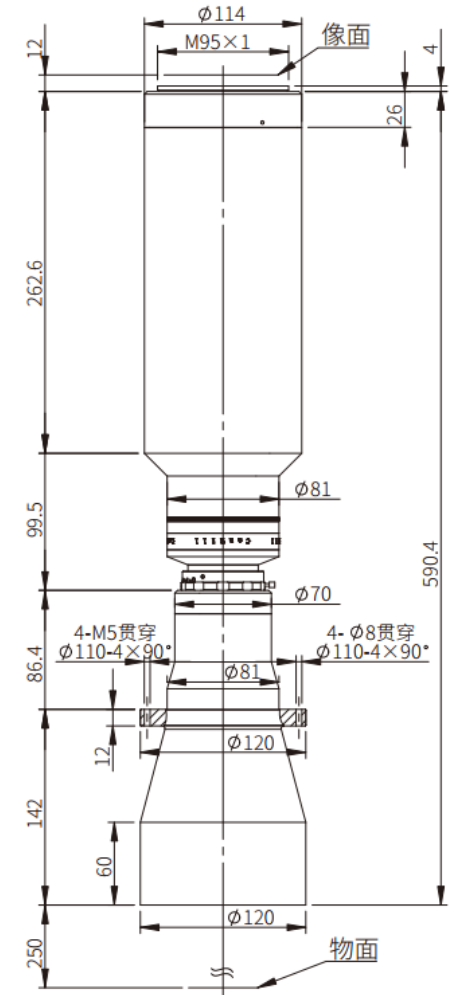
## XF-PTL11082-M95-12-VI

Chip type	16k x 5μm
diagonal	81.92
Long object field of view	104.4
Total length of lens (mm)	639.6
Maximum diameter (mm)	130
O/I (mm)	901.6
Lens interface	M95 interface
Optical distortion (%)	0.03
Resolution (μm)	11.3@F13.5
aperture	F8-F111
Depth of field (mm)	2.2@F13.5
Image field (mm)	82
Telecentric design value (°)	0.04
Object field φ (mm)	104.5
Working distance (mm)	250
Optical structure	Double telecentric
Magnification (X)	0.785



## XF-PTL09282-M95-12-VI

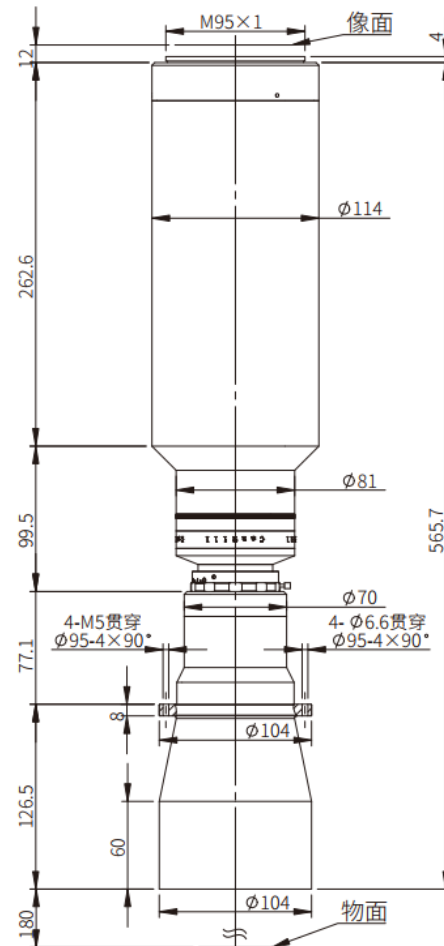
Chip type	16k x 5μm
diagonal	81.92
Long object field of view	86.9
Total length of lens (mm)	590.4
Maximum diameter (mm)	120
O/I (mm)	852.4
Lens interface	M95 interface
Optical distortion (%)	0.032
Resolution (μm)	9.5@F13.5
aperture	F8-F111
Depth of field (mm)	1.5@F13.5
Image field (mm)	82
Telecentric design value (°)	0.04
Object field φ (mm)	87
Working distance (mm)	250
Optical structure	Double telecentric
Magnification (X)	0.943





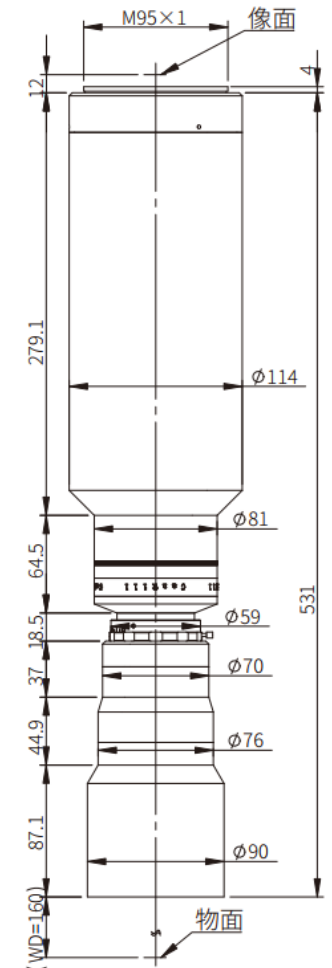
## XF-PTL08082-M95-12-VI

Chip type	16k x 5μm
diagonal	81.92
Long object field of view	75.9
Total length of lens (mm)	565.7
Maximum diameter (mm)	104
O/I (mm)	757.7
Lens interface	M95 interface
Optical distortion (%)	0.031
Resolution (μm)	8.3@F13.5
aperture	F8-F111
Depth of field (mm)	1.2@F13.5
Image field (mm)	82
Telecentric design value (°)	0.03
Object field φ (mm)	75.9
Working distance (mm)	180
Optical structure	Double telecentric
Magnification (X)	1.08



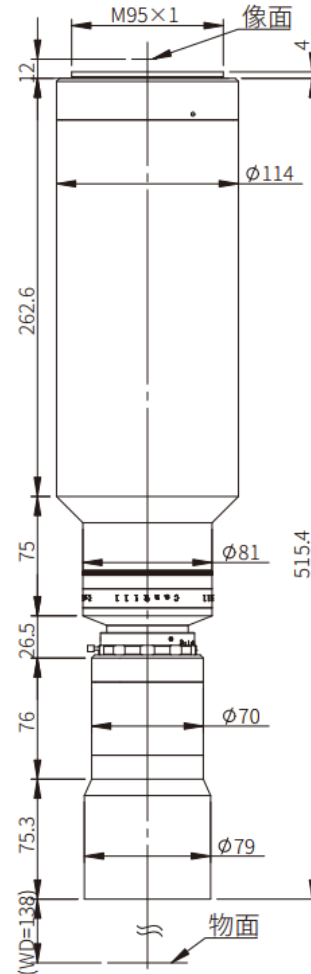
## XF-PTL06582-M95-12-VI

Chip type	16k x 5μm
diagonal	81.92
Long object field of view	61.7
Total length of lens (mm)	531
Maximum diameter (mm)	90
O/I (mm)	703
Lens interface	M95 interface
Optical distortion (%)	0.028
Resolution (μm)	6.7@F13.5
aperture	F8-F111.5
Depth of field (mm)	0.8@F13.5
Image field (mm)	82
Telecentric design value (°)	0.03
Object field φ (mm)	61.7
Working distance (mm)	160
Optical structure	Double telecentric
Magnification (X)	1.328



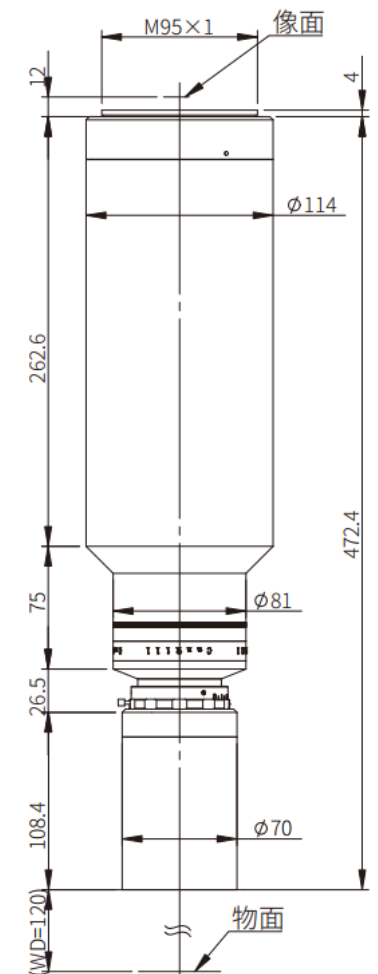
## XF-PTL05582-M95-12-VI

Chip type	16k x 5 $\mu$ m
diagonal	81.92
Long object field of view	52.1
Total length of lens (mm)	515.4
Maximum diameter (mm)	79
O/I (mm)	665.4
Lens interface	M95 interface
Optical distortion (%)	0.054
Resolution ( $\mu$ m)	7.57@F18
aperture	F8-F111.5
Depth of field (mm)	0.8@F18
Image field (mm)	82
Telecentric design value (°)	0.04
Object field $\phi$ (mm)	52.2
Working distance (mm)	138
Optical structure	Double telecentric
Magnification (X)	1.571



## XF-PTL04582-M95-12-VI

Chip type	16k x 5 $\mu$ m
diagonal	81.92
Long object field of view	42.7
Total length of lens (mm)	472.4
Maximum diameter (mm)	70
O/I (mm)	604.4
Lens interface	M95 interface
Optical distortion (%)	0.034
Resolution ( $\mu$ m)	6.20@F18
aperture	F8-F111.5
Depth of field (mm)	0.5@F18
Image field (mm)	82
Telecentric design value (°)	0.03
Object field $\phi$ (mm)	42.7
Working distance (mm)	120
Optical structure	Double telecentric
Magnification (X)	1.92





큐브아이엔티

Machine Vision System & Component

# THANK YOU

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

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