



High-magnification full-frame (44mm) double-sided Telecentric Lens

- The object-side telecentricity is specially designed for large target surfaces, which greatly improves the measurement accuracy
- The magnification can be covered from 1.5-4, and the entire series supports adjustable aperture, the maximum resolution can reach 240 lp/mm
- Both non-coaxial and coaxial versions are available
- Compatible with maximum full-frame 29 million pixels and 8K line scan F interface industrial cameras
- High-precision semiconductor display panel inspection

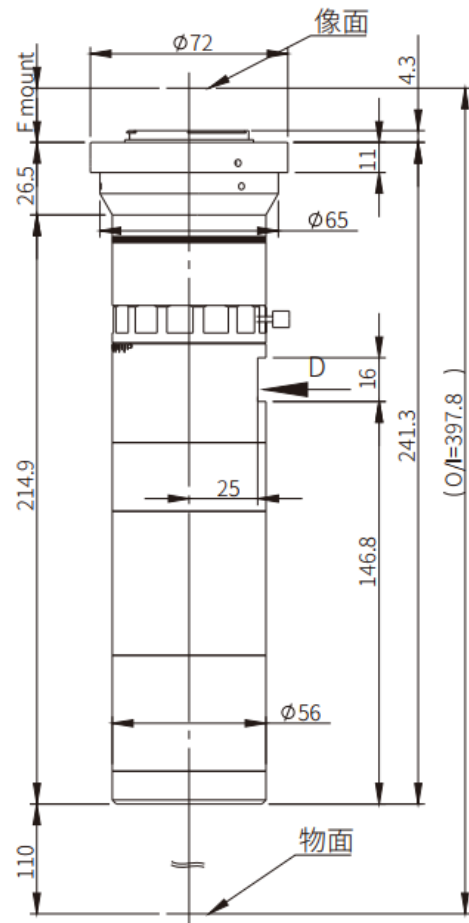


High-magnification full-frame (44mm) double-sided Telecentric Lens

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-MDT1.5X110-D35-VI	35mm Full	Telecentric	110	1.5	36	24	43.3	24	16	241.3	56	397.8	F Mount	0.09	5.3-63.2	F12-143.8	0.59-7.2	44	0.11	29.3
XF-MDT1.5X110D-D35-VI-V5.1	35mm Full	Telecentric	110	1.5	36	24	43.3	24	16	241.3	56	397.8	F Mount	0.09	5.3-63.2	F12-143.8	0.59-7.2	44	0.11	29.3
XF-MDT2X110-D35-VI	35mm Full	Telecentric	110	2	36	24	43.3	18	12	252.3	56	408.8	F Mount	0.075	4.0-57.2	F12-173.8	0.33-4.9	44	0.11	22
XF-MDT2X110D-D35-VI-V5.1	35mm Full	Telecentric	110	2	36	24	43.3	18	12	252.3	56	408.8	F Mount	0.075	4.0-57.2	F12-173.8	0.33-4.9	44	0.11	22
XF-MDT3X110-D35-VI	35mm Full	Telecentric	110	3	36	24	43.3	12	8	279.3	56	435.8	F Mount	0.075	3.0-49.7	F13.6-227.1	0.17-2.8	44	0.11	14.7
XF-MDT3X110D-D35-VI-V5.1	35mm Full	Telecentric	110	3	36	24	43.3	12	8	279.3	56	435.8	F Mount	0.075	3.0-49.7	F13.6-227.1	0.17-2.8	44	0.11	14.7
XF-MDT4X110-D35-VI	35mm Full	Telecentric	110	4	36	24	43.3	9	6	319.9	56	476.4	F Mount	0.075	2.8-49.7	F17-301.6	0.12-2.1	44	0.08	11
XF-MDT4X110D-D35-VI-V5.1	35mm Full	Telecentric	110	4	36	24	43.3	9	6	319.9	56	476.4	F Mount	0.075	2.8-49.7	F17-301.6	0.12-2.1	44	0.08	11

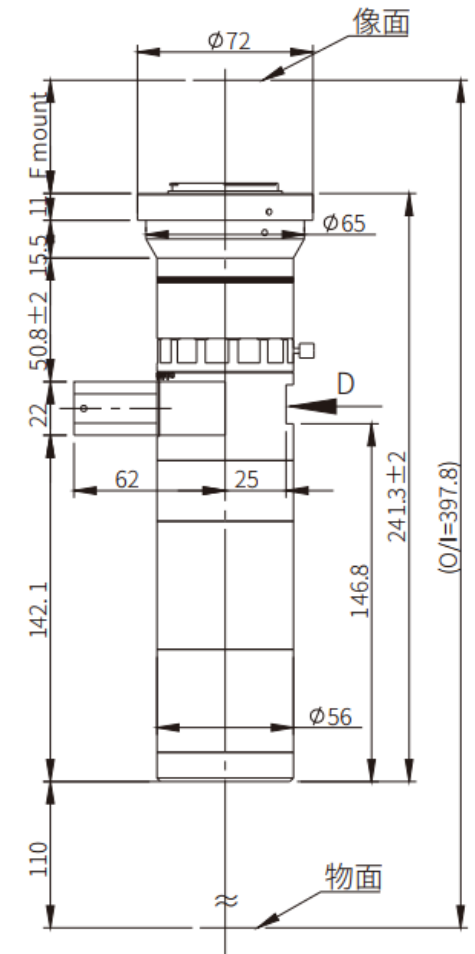
XF-MDT1.5X110-D35-VI

Chip type	35mm Full
Chip length	36
Chip width	24
diagonal	43.3
Long object field of view	24
Wide field of view	16
Total length of lens (mm)	241.3
Maximum diameter (mm)	56
O/I (mm)	397.8
Lens interface	F Mount
Optical distortion (%)	0.09
Resolution (μm)	5.3-63.2
aperture	F12-143.8
Depth of field (mm)	0.59-7.2
Image field (mm)	44
Telecentric design value (°)	0.11
Object field φ (mm)	29.3
Working distance (mm)	110
Optical structure	Telecentric
Magnification (X)	1.5



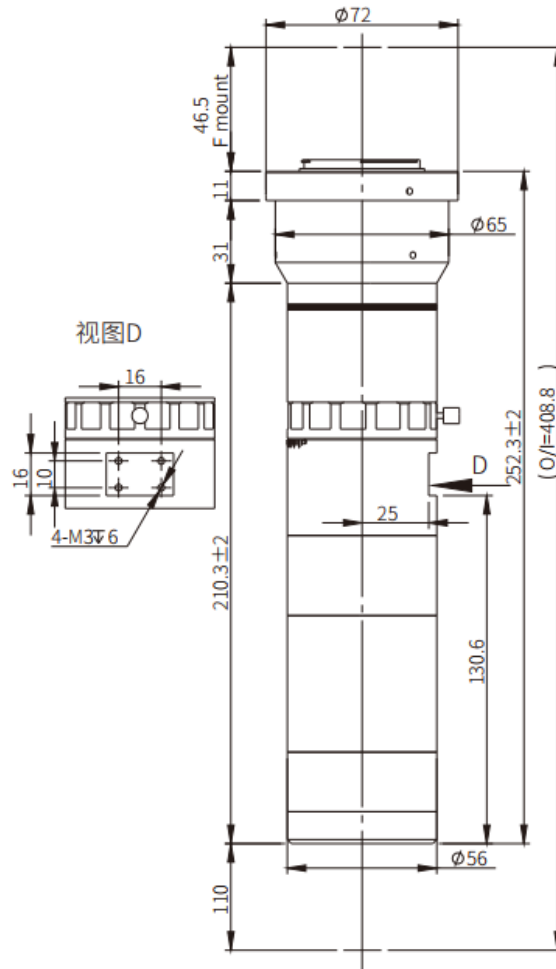
XF-MDT1.5X110D-D35-VI-V5.1

Chip type	35mm Full
Chip length	36
Chip width	24
diagonal	43.3
Long object field of view	24
Wide field of view	16
Total length of lens (mm)	241.3
Maximum diameter (mm)	56
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aperture	F12-143.8
Depth of field (mm)	0.59-7.2
Image field (mm)	44
Telecentric design value (°)	0.11
Object field φ (mm)	29.3
Working distance (mm)	110
Optical structure	Telecentric
Magnification (X)	1.5



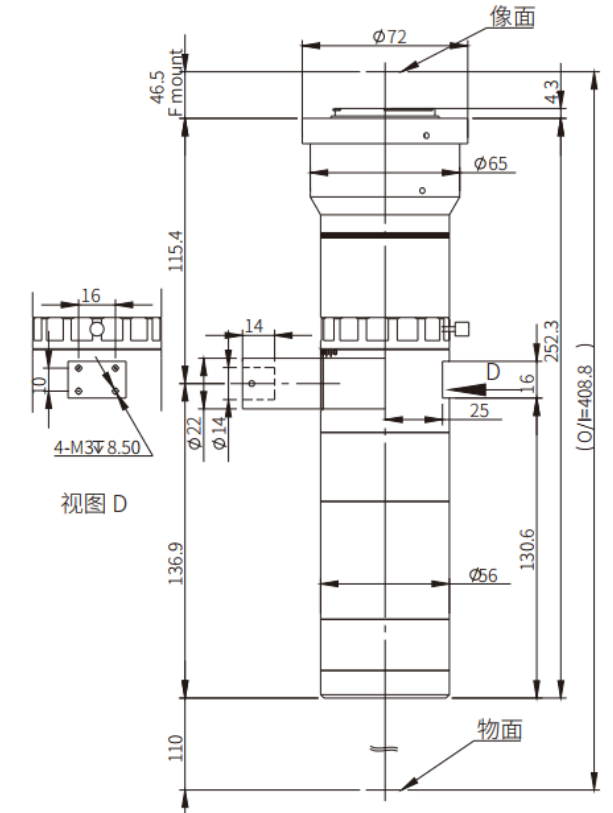
XF-MDT2X110-D35-VI

Chip type	35mm Full
Chip length	36
Chip width	24
diagonal	43.3
Long object field of view	18
Wide field of view	12
Total length of lens (mm)	252.3
Maximum diameter (mm)	56
O/I (mm)	408.8
Lens interface	F Mount
Optical distortion (%)	0.075
Resolution (μm)	4.0-57.2
aperture	F12-173.8
Depth of field (mm)	0.33-4.9
Image field (mm)	44
Telecentric design value (°)	0.11
Object field φ (mm)	24
Working distance (mm)	110
Optical structure	Telecentric
Magnification (X)	2



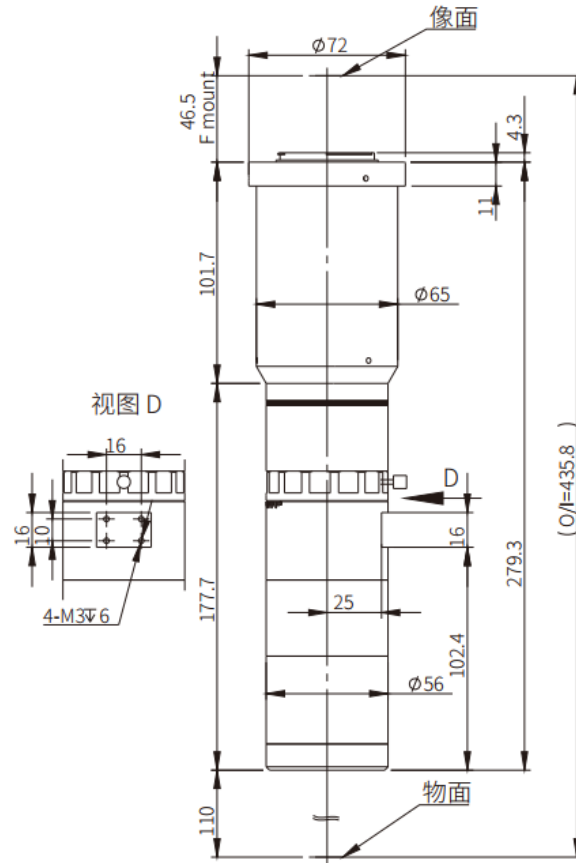
XF-MDT2X110D-D35-VI-V5.1

Chip type	35mm Full
Chip length	36
Chip width	24
diagonal	43.3
Long object field of view	18
Wide field of view	12
Total length of lens (mm)	252.3
Maximum diameter (mm)	56
O/I (mm)	408.8
Lens interface	F Mount
Optical distortion (%)	0.075
Resolution (μm)	4.0-57.2
aperture	F12-173.8
Depth of field (mm)	0.33-4.9
Image field (mm)	44
Telecentric design value (°)	0.11
Object field φ (mm)	22
Working distance (mm)	110
Optical structure	Telecentric
Magnification (X)	2



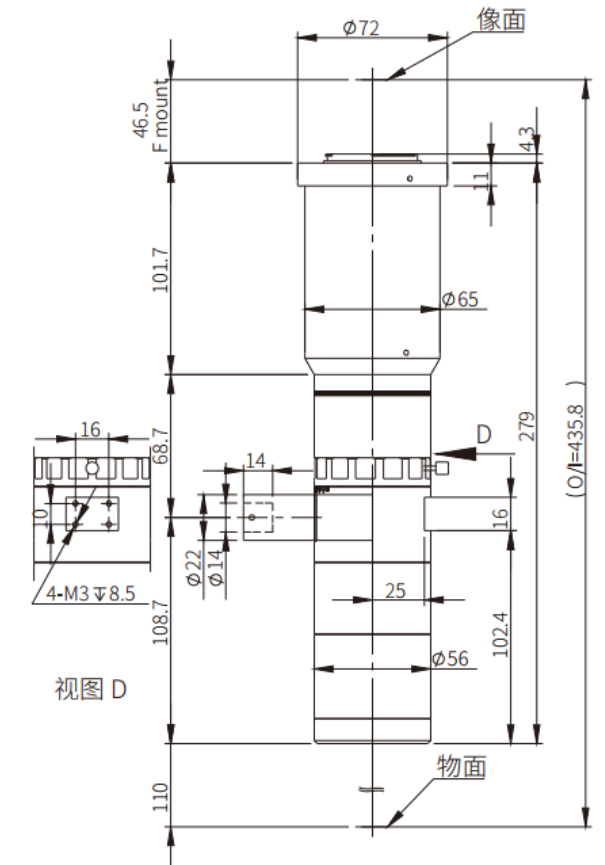
XF-MDT3X110-D35-VI

Chip type	35mm Full
Chip length	36
Chip width	24
diagonal	43.3
Long object field of view	12
Wide field of view	8
Total length of lens (mm)	279.3
Maximum diameter (mm)	56
O/I (mm)	435.8
Lens interface	F Mount
Optical distortion (%)	0.075
Resolution (μm)	3.0-49.7
aperture	F13.6-227.1
Depth of field (mm)	0.17-2.8
Image field (mm)	44
Telecentric design value (°)	0.11
Object field φ (mm)	14.7
Working distance (mm)	110
Optical structure	Telecentric
Magnification (X)	3



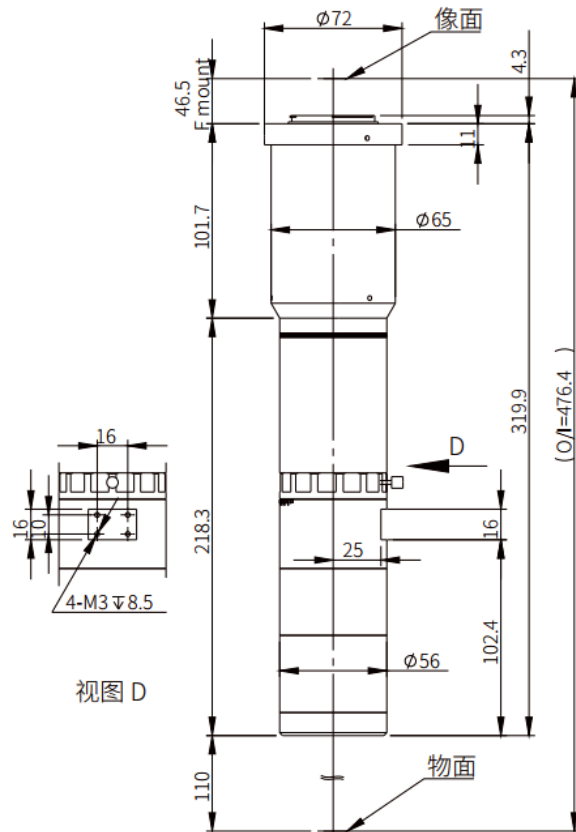
XF-MDT3X110D-D35-VI-V5.1

Chip type	35mm Full
Chip length	36
Chip width	24
diagonal	43.3
Long object field of view	12
Wide field of view	8
Total length of lens (mm)	279.3
Maximum diameter (mm)	56
O/I (mm)	435.8
Lens interface	F Mount
Optical distortion (%)	0.075
Resolution (μm)	3.0-49.7
aperture	F13.6-227.1
Depth of field (mm)	0.17-2.8
Image field (mm)	44
Telecentric design value (°)	0.11
Object field φ (mm)	14.7
Working distance (mm)	110
Optical structure	Telecentric
Magnification (X)	3



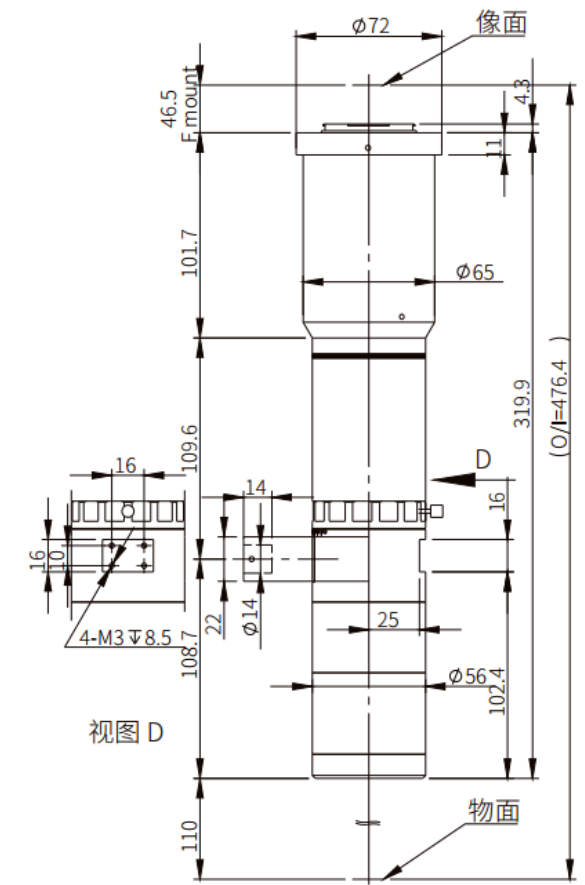
XF-MDT4X110-D35-VI

Chip type	35mm Full
Chip length	36
Chip width	24
diagonal	43.3
Long object field of view	9
Wide field of view	6
Total length of lens (mm)	319.9
Maximum diameter (mm)	56
O/I (mm)	476.4
Lens interface	F Mount
Optical distortion (%)	0.075
Resolution (μm)	2.8-49.7
aperture	F17-301.6
Depth of field (mm)	0.12-2.1
Image field (mm)	44
Telecentric design value (°)	0.08
Object field φ (mm)	11
Working distance (mm)	110
Optical structure	Telecentric
Magnification (X)	4



XF-MDT4X110D-D35-VI-V5.1

Chip type	35mm Full
Chip length	36
Chip width	24
diagonal	43.3
Long object field of view	9
Wide field of view	6
Total length of lens (mm)	319.9
Maximum diameter (mm)	56
O/I (mm)	476.4
Lens interface	F Mount
Optical distortion (%)	0.075
Resolution (μm)	2.8-49.7
aperture	F17-301.6
Depth of field (mm)	0.12-2.1
Image field (mm)	44
Telecentric design value (°)	0.08
Object field φ (mm)	11
Working distance (mm)	110
Optical structure	Telecentric
Magnification (X)	4





큐브아이엔티

Machine Vision System & Component

THANK YOU

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

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