

Lens Catalogue of Chen Hsuan Optics

Version A	Chen Hsuan Technology Co., LTD. 407 Address:No. 56-17, Alley 12, Lane 225, Section 3, Zhongqing Road, Xitun District, Taichung City Tel: +886 424263929 Fax:+886 422569849	CONFIDENTIAL
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A Series of Line Scan Lenses

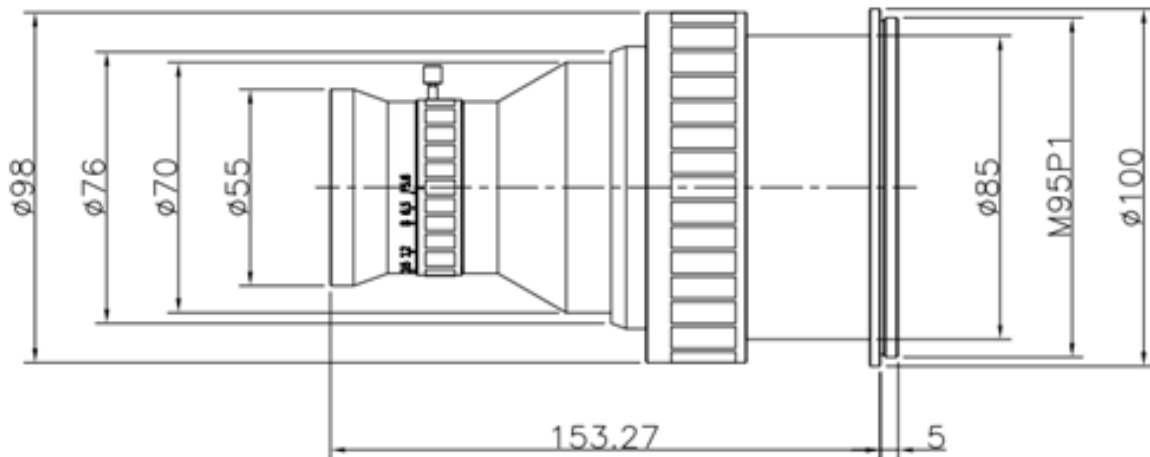
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Magnification: 0.25X

1. Optical Specification

No.	Items	Description
1	Optical Magnification	0.25X
2	Resolution	16K5 μ m/16K5.6 μ m
3	Working Distance (WD)	WD= 502.9mm OI= 665.5mm
4	Effective F/#	F5.6~F16
5	Depth of Field (DOF)	\pm 0.25mm (Image side @COC= 0.04mm)
6	Optical Distortion	<0.1%
7	Relative Illumination (RI)	>80% @ Φ 82
8	Modulation Transfer Function (MTF)	>55@ 40 lp/mm
9	Wavelength	465nm~650nm
10	Mount	M95P1/M90P1

2. Drawing



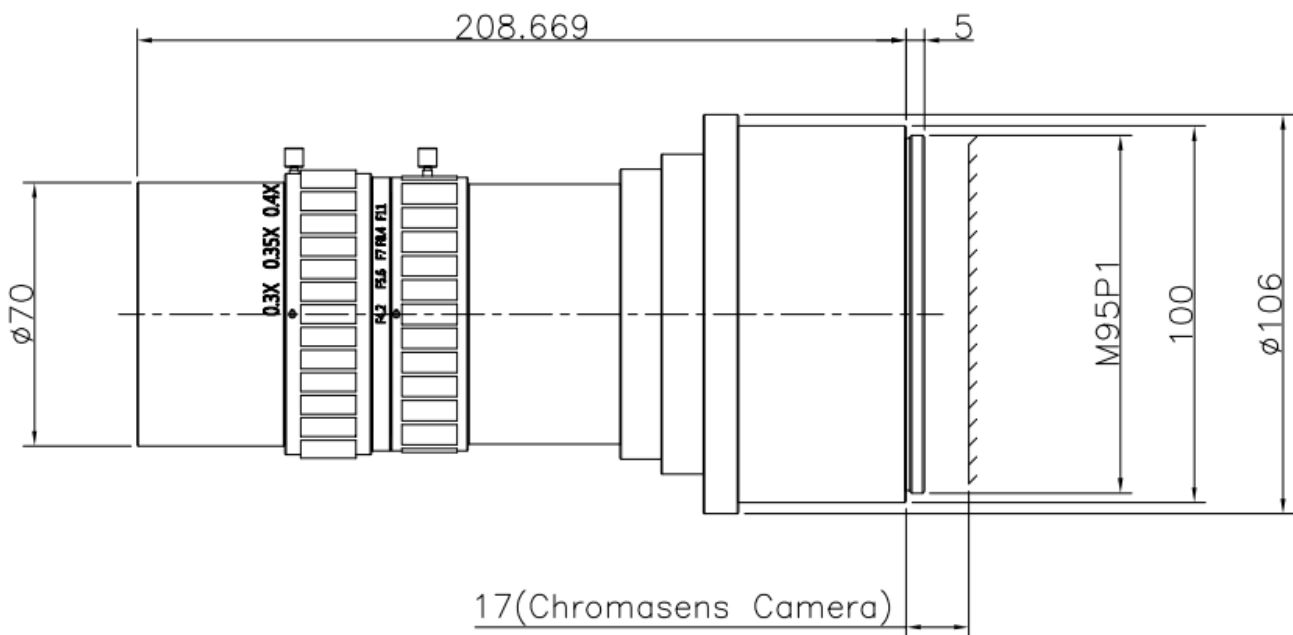
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Magnification: 0.3X~0.4X

1. Optical Specification

No.	Items	Description			
1	Optical Magnification	0.3X~0.4X			
2	Resolution	16K5 μ m/16K5.6 μ m			
3	Working Distance (WD)	Magnification	0.3X	0.35X	0.4X
		WD (mm)	450	400	361
		OI (mm)	650	605.5	573.4
4	Effective F/#	F4.2~F11			
5	Depth of Field (DOF)	$\pm 0.05\text{mm}@60\text{lp/mm}$, MTF>0.3 (Image side)			
6	Optical Distortion	<0.1%			
7	Relative Illumination (RI)	>85% @ $\Phi 86$			
8	Modulation Transfer Function (MTF)	>70@ 40 lp/mm			
9	Wavelength	450nm~650nm			
10	Mount	M95P1/M90P1			

2. Drawing



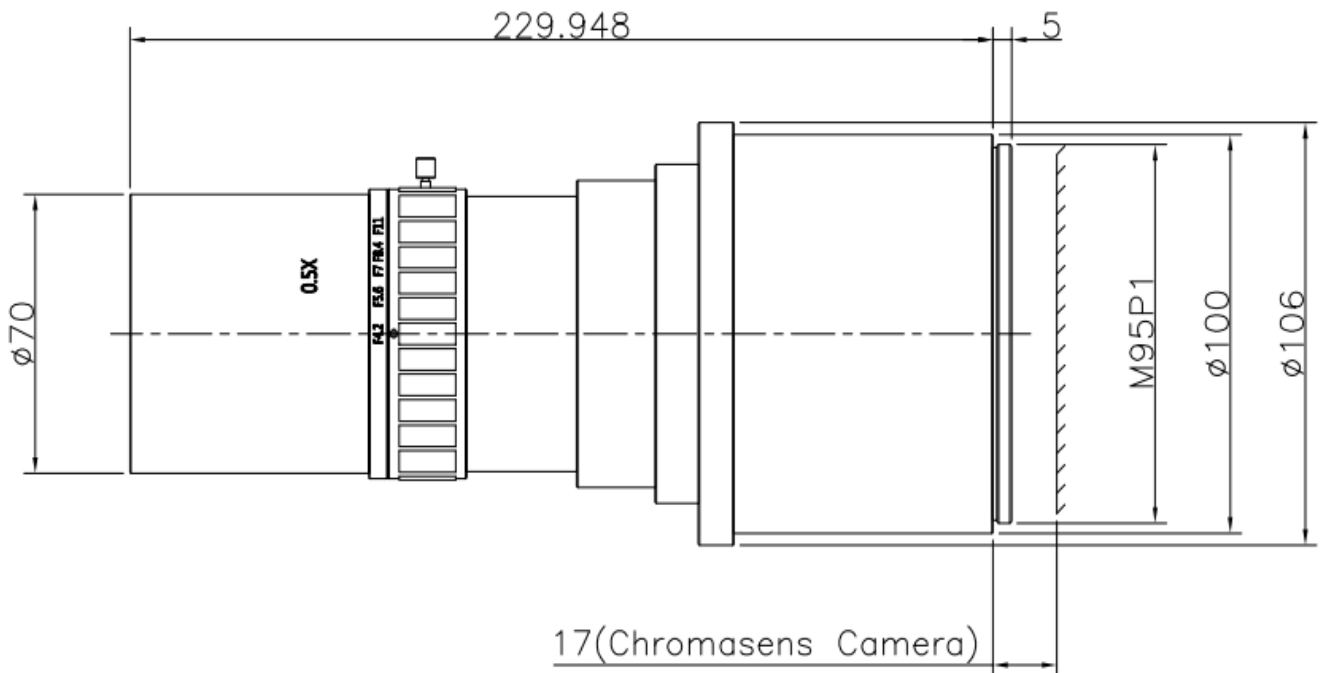
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Magnification: 0.5X

1. Optical Specification

No.	Items	Description	
1	Optical Magnification	0.5X	
2	Resolution	16K5 μ m/16K5.6 μ m	
3	Working Distance (WD)	Magnification	0.5X
		WD (mm)	281.8
		OI (mm)	528.7
4	Effective F/#	F4.2~F11	
5	Depth of Field (DOF)	± 0.05 mm@60 lp/mm, MTF>0.3 (Image side)	
6	Optical Distortion	<0.1%	
7	Relative Illumination (RI)	>85% @ $\Phi 86$	
8	Modulation Transfer Function (MTF)	>70@ 40 lp/mm	
9	Wavelength	450nm~650nm	
10	Mount	M95P1/M90P1	

2. Drawing



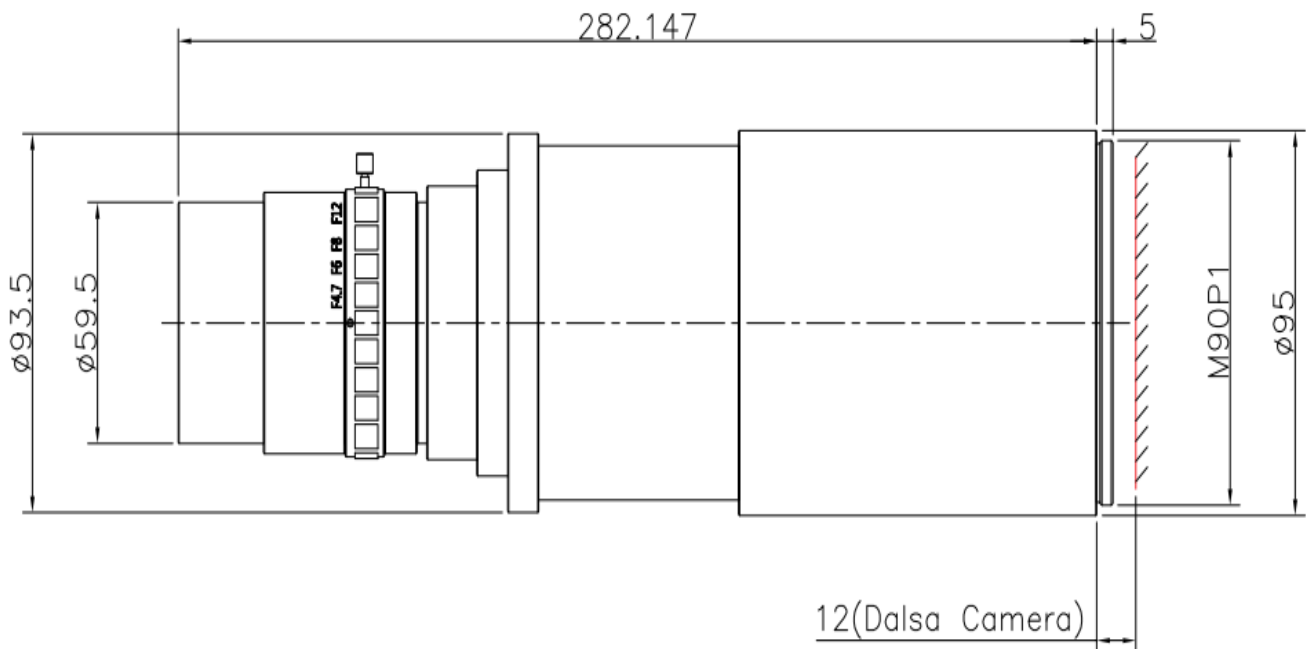
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Magnification: 0.83X~1X

1. Optical Specification

No.	Items	Description			
1	Optical Magnification	0.83X~1X			
2	Resolution	16K5μm/16K5.6μm			
3	Working Distance (WD)	Magnification	0.87X	0.93X	1X
		WD (mm)	217.7	199.8	186.7
		OI (mm)	511.9	507.7	504.2
4	Effective F/#	F4.7~F16			
5	Depth of Field (DOF)	±0.06mm@50 lp/mm, MTF>0.4 (Image side)			
6	Optical Distortion	<0.1%			
7	Relative Illumination (RI)	>95% @ Φ86			
8	Modulation Transfer Function (MTF)	>53@ 45 lp/mm			
9	Wavelength	450nm~650nm			
10	Mount	M95P1/M90P1			

2. Drawing



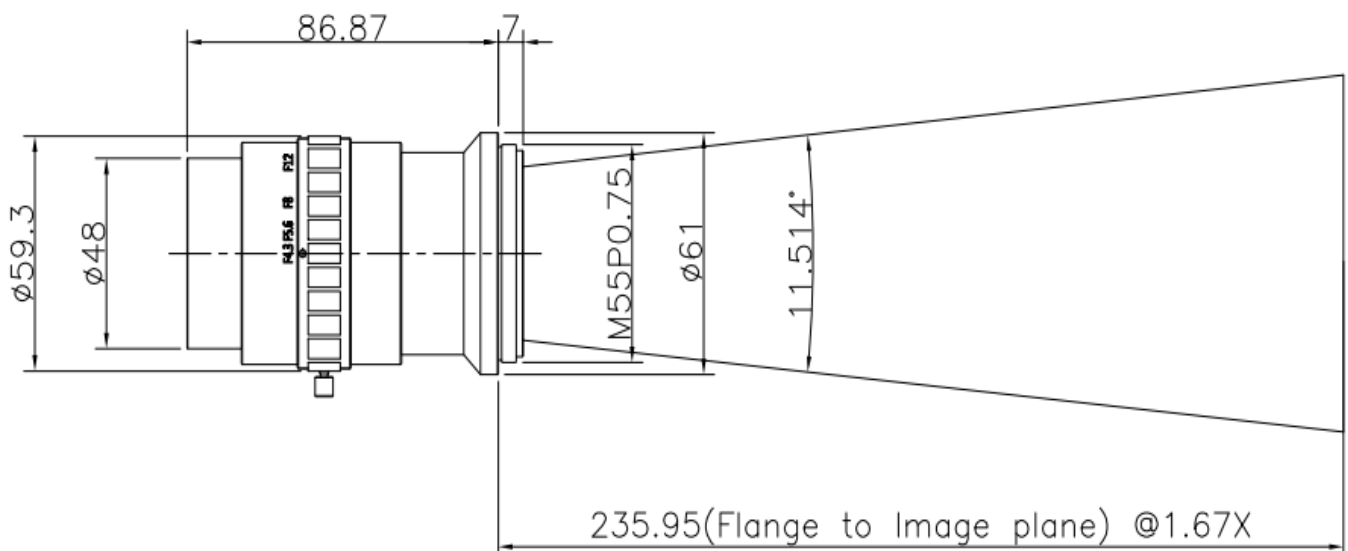
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Magnification: 1.6X~1.75X

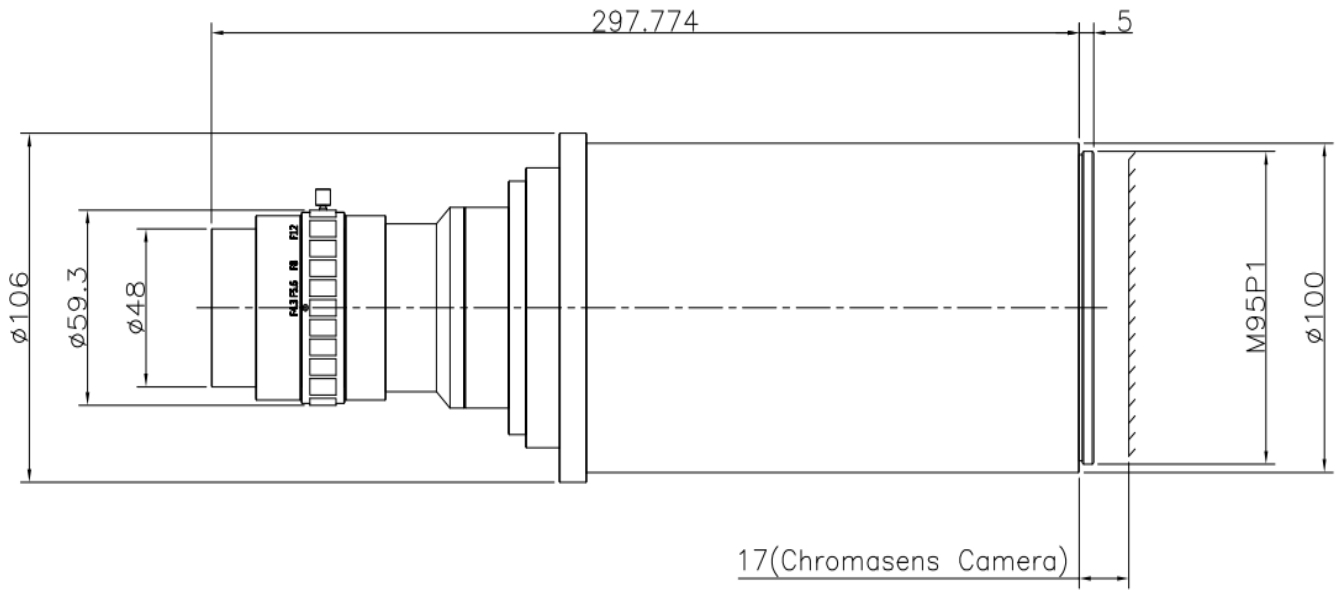
1. Optical Specification

No.	Items	Description			
1	Optical Magnification	1.6X~1.75X			
2	Resolution	16K5 μ m/16K5.6 μ m			
3	Working Distance (WD)	Magnification	1.6X	1.67X	1.75X
		WD (mm)	153	150	147
		OI (mm)	464	469	475
4	Effective F/#	F4.3~F12			
5	Depth of Field (DOF)	± 0.5 mm@COC=40 μ m (Image side)			
6	Optical Distortion	<0.05%			
7	Relative Illumination (RI)	>95% @ $\Phi 86$			
8	Modulation Transfer Function (MTF)	>40@ 40 lp/mm			
9	Wavelength	430nm~650nm			
10	Mount	M95P1/M90P1			

2. Drawing



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