

INDUSTRIAL LENS CATALOGUE

2019V1

VICOIMAGING

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About VICOIMAGING

VICO IMAGING is a supplier for telecentric lens. VICO IMAGING have more than 10 years experience with telecentric imaging lens.

Design and Manufacture

VICO IMAGING designs and manufactures Telecentric lens products, which have excellent performance and high reliability. We have strict image quality control and test system to ensure every piece of lens delivered with approved test report.

Fast Response Customization Service

Besides standard series of telecentric lens, VICO IMAGING provides very fast response customization service to customers. In past 10 years, we've already provided thousands custom telecentric lens solution to help customers successfully. We integrate our designing team, supply chain system, and testing team to accommodate to customization requirement maximumly.

VICO IMAGING is keeping on moving forward to the target: **Provide every customer an easier and faster way to the telecentric imaging world.**

Telecentric Lens Contents

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DTCA Series

DTCA high performance bi-telecentric lens

★ Features

- DTCA series lenses are designed specially for compatibility with large sensor.
- Support newest developments in machine vision field: 24K line scan camera and 120Mp area scan camera.
- Extreme imaging aperture, extraordinary aberration correction, diffraction limited imaging resolution.
- Variable Iris for convenient use of balance in DOF and resolution.
- Big aperture, good telecentricity, near zero distortion, big depth for high quality imaging.
- Each product need to be tested strictly before shipping and all-sided test report is available for each piece of products.

 Name Rule

DTCA Series

Diagonal of FOV is 37mm

DTCA

230

-

37

C

Largest compatible with 2/3" sensor size

Coaxial Light



DTCA Series

Adjustable Iris,
Coaxial light

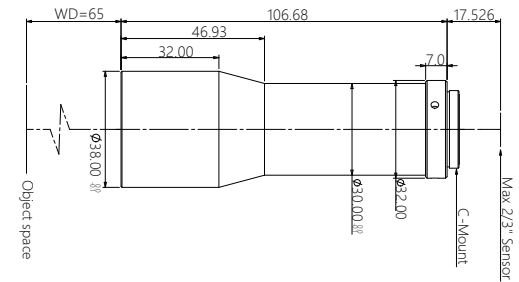
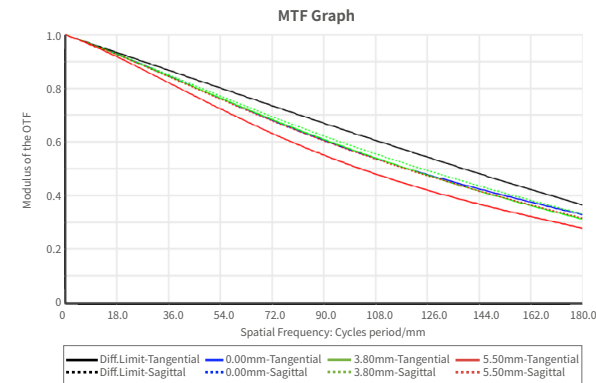
Lens Model	FOV (Φmm)	Mag. β(x)	WD (mm)	Sensor Size (Φmm)	F/#	MTF30 (lp/mm)	DOF (mm)	Distortion (% Max)	Telecentricity (° Max)	I/O (mm)	Length (mm)	Mount	Weight (kg)	Iris	Coaxial Light
DTCA230-22L	22	0.500	65±1	11.0(2/3")	5.0	>160	±0.8@F5.0	<0.1	<0.1	189±1	106.7	C	0.2	NO	NO
DTCA230-22C	22	0.500	65±1	11.0(2/3")	5.0	>160	±0.8@F5.0	<0.1	<0.1	189±1	106.7	C	0.2	NO	YES
DTCA230-27.5	27.5	0.400	85±2	11.0(2/3")	4.5	>205	±1.1@F4.5	<0.03	<0.1	236±2	133.7	C	-	NO	NO
DTCA230-27.5C	27.5	0.400	85±2	11.0(2/3")	4.5	>205	±1.1@F4.5	<0.03	<0.1	236±2	133.7	C	-	NO	YES
DTCA230-37	37	0.300	110±2	11.0(2/3")	3.75	>220	±1.7@F3.75	<0.1	<0.1	273±2	145.5	C	0.4	YES	NO
DTCA230-37C	37	0.300	110±2	11.0(2/3")	3.75	>220	±1.7@F3.75	<0.1	<0.1	273±2	145.5	C	0.4	YES	YES
DTCA230-66	66	0.166	166±3	11.0(2/3")	3.3	>260	±4.8@F3.3	<0.1	<0.1	329±3	146.5	C	0.6	YES	NO
DTCA430-11.5	11.5	2.000	39±1	23(4/3")	9.5	>85	±0.1@F9.5	<0.1	<0.1	189±1	133.4	C	0.2	NO	NO
DTCA430-11.5C	11.5	2.000	39±1	23(4/3")	9.5	>85	±0.1@F9.5	<0.1	<0.1	189±1	133.4	C	0.2	NO	YES
DTCA430-42-C	42	0.550	83±1	23(4/3")	8.0	>110	±1.1@F8.0	<0.1	<0.1	198±1	97.5	C	0.2	NO	NO
DTCA35F-94-AL	94	0.462	378±4	43.4	8.0	>115	±1.5@F8.0	<0.1	<0.1	847±4	456.9	M58	3.7	NO	NO
DTCA35F-94C-AL	94	0.462	378±4	43.4	8.0	>115	±1.5@F8.0	<0.1	<0.1	847±4	456.9	M58	3.7	NO	YES
DTCA16K-62-AL	62	1.000	102±2	62	7.0	>110	±0.3@F7.0	<0.1	<0.62	400±2	285.9	M72	3.1	NO	NO
DTCA16K-72.7-AL	72.7	0.853	125±3	62	6.0	>135	±0.3@F6.0	<0.1	<0.3	650±3	513.0	M72	-	NO	NO
DTCA16K-88-AL	88	0.705	125±3	62	5.0	>165	±0.4@F5.0	<0.1	<0.3	601±3	464.4	M72	-	NO	NO
DTCA24K-62-AL	62	1.419	123±3	88	7.0	>115	±0.1@F7.0	<0.1	<0.1	601±3	466.3	M95	-	NO	NO
DTCA24K-75-AL	75	1.173	152±3	88	7.0	>115	±0.2@F7.0	<0.1	<0.1	650±3	486.0	M95	-	NO	NO
DTCA24K-88-AL	88	1.000	165±3	88	8.0	>90	±0.3@F8.0	<0.1	<0.1	630±3	453.2	M95	-	NO	NO
DTCA24K-92-AL	91.6	0.960	153±3	88	8.0	>90	±0.3@F8.0	<0.1	<0.1	624±3	458.5	M95	-	NO	NO

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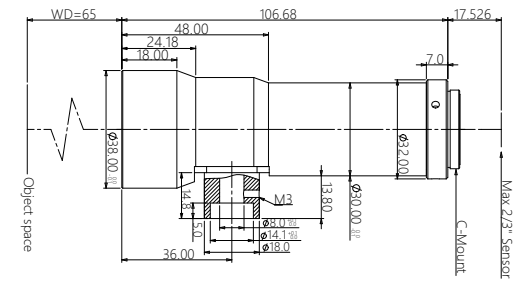
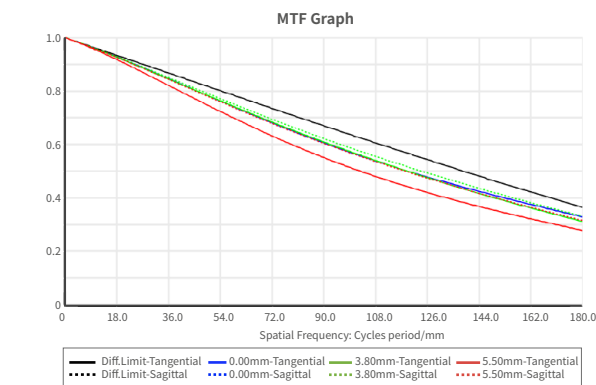
It's time of bigger sensor and larger FOV.

DTCA230-22L



FOV(Φmm)	22
Mag.(x)	0.500
WD(mm)	65±1
Max Sensor Size(Φmm)	11.0(2/3")
F/#	5.0
MTF30(lp/mm)	>160
DOF(mm)	±0.8@F5.0
Distortion(% max)	<0.1
Telecentricity(° max)	<0.1
I/O (mm)	189±1
Length(mm)	106.7
Mount	C
Weight(kg)	0.2
Iris	NO
Coaxial Light	NO
Field of View (mmxmm)	
1/1.8" EV76C570 (7.2x5.4)	14.4x10.8
1/1.7" IMX226 (7.5x5.6)	15.0x11.2
2/3" IMX250/264 (8.45x7.1)	16.9x14.2

DTCA230-22C



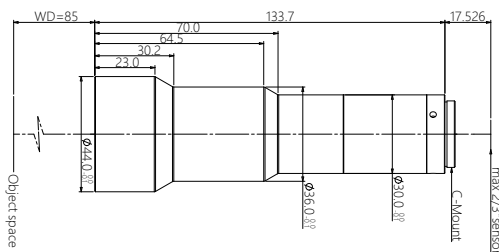
FOV(Φmm)	22
Mag.(x)	0.500
WD(mm)	65±1
Max Sensor Size(Φmm)	11.0(2/3")
F/#	5.0
MTF30(lp/mm)	>160
DOF(mm)	±0.8@F5.0
Distortion(% max)	<0.1
Telecentricity(° max)	<0.1
I/O (mm)	189±1
Length(mm)	106.7
Mount	C
Weight(kg)	0.2
Iris	NO
Coaxial Light	YES
Field of View (mmxmm)	
1/1.8" EV76C570 (7.2x5.4)	14.4x10.8
1/1.7" IMX226 (7.5x5.6)	15.0x11.2
2/3" IMX250/264 (8.45x7.1)	16.9x14.2

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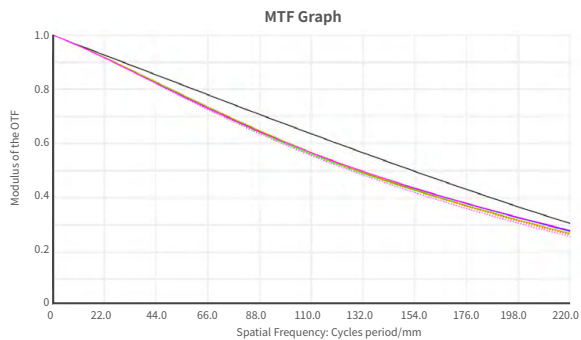
DTCA230-27.5 (NEW)

DTCA230-27.5

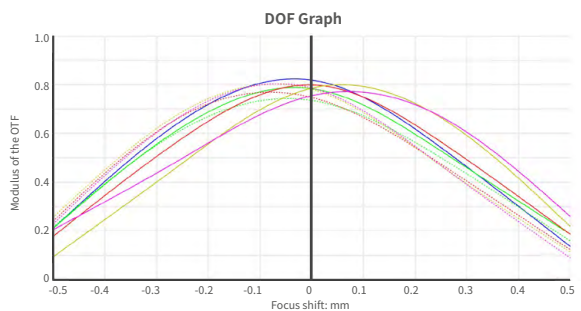


FOV(Φmm)	27.5
Mag.(x)	0.400
WD(mm)	85±2
Max Sensor Size(Φmm)	11.0(2/3")
F/#	4.5
MTF30(lp/mm)	>205
DOF(mm)	±1.1@F4.5
Distortion(% max)	<0.03
Telecentricity(° max)	<0.1
I/O (mm)	236±2
Length(mm)	133.7
Mount	C
Weight(kg)	-
Iris	NO
Coaxial Light	NO

Field of View (mmxmm)	
1/1.8" EV76C570 (7.2x5.4)	18.0x13.5
1/1.7" IMX226 (7.5x5.6)	18.8x14.0
2/3" IMX250/264 (8.45x7.1)	21.1x17.8



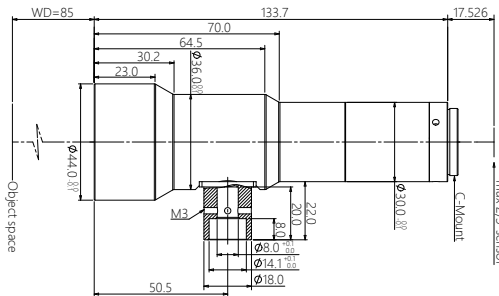
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— Diff.Limit-Sagittal — 0.0mm-Sagittal — 3mm-Sagittal — 4mm-Sagittal — 4.5mm-Sagittal — 5.5mm-Sagittal



— 0.0mm-Tangential — 5.5mm-Tangential — 8mm-Tangential — 11mm-Tangential — 13.75mm-Tangential
— 0.0mm-Sagittal — 5.5mm-Sagittal — 8mm-Sagittal — 11mm-Sagittal — 13.75mm-Sagittal

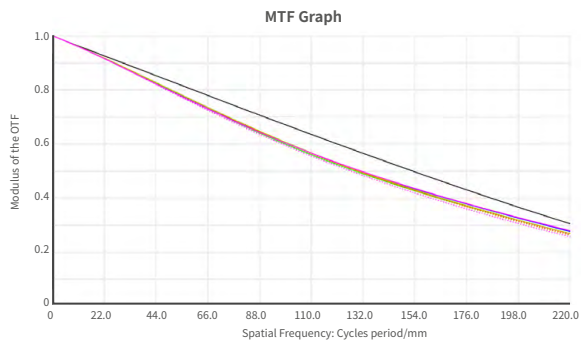
DTCA230-27.5C (NEW)

DTCA230-27.5C

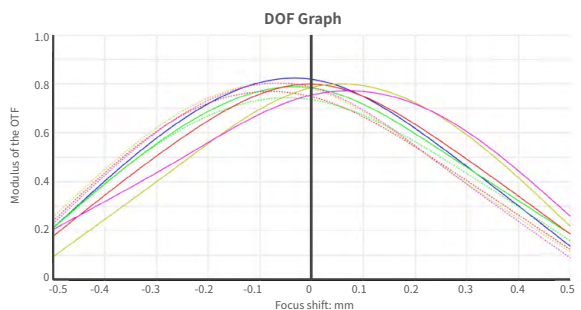


FOV(Φmm)	27.5
Mag.(x)	0.400
WD(mm)	85±2
Max Sensor Size(Φmm)	11.0(2/3")
F/#	4.5
MTF30(lp/mm)	>205
DOF(mm)	±1.1@F4.5
Distortion(% max)	<0.03
Telecentricity(° max)	<0.1
I/O (mm)	236±2
Length(mm)	133.7
Mount	C
Weight(kg)	-
Iris	NO
Coaxial Light	YES

Field of View (mmxmm)	
1/1.8" EV76C570 (7.2x5.4)	18.0x13.5
1/1.7" IMX226 (7.5x5.6)	18.8x14.0
2/3" IMX250/264 (8.45x7.1)	21.1x17.8

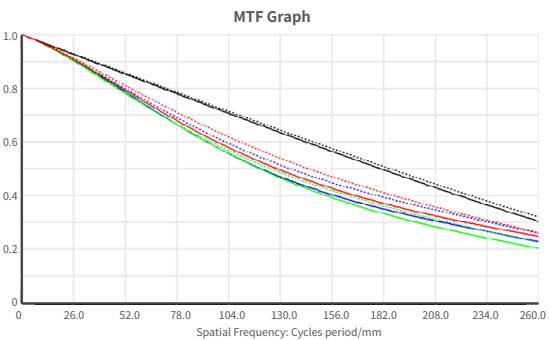


— Diff.Limit-Tangential — 0.0mm-Tangential — 3mm-Tangential — 4mm-Tangential — 4.5mm-Tangential — 5.5mm-Tangential
— Diff.Limit-Sagittal — 0.0mm-Sagittal — 3mm-Sagittal — 4mm-Sagittal — 4.5mm-Sagittal — 5.5mm-Sagittal

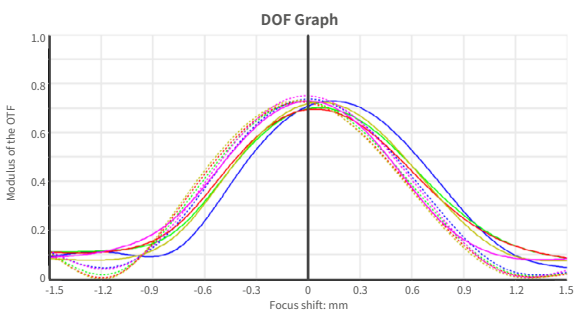


— 0.0mm-Tangential — 5.5mm-Tangential — 8mm-Tangential — 11mm-Tangential — 13.75mm-Tangential
— 0.0mm-Sagittal — 5.5mm-Sagittal — 8mm-Sagittal — 11mm-Sagittal — 13.75mm-Sagittal

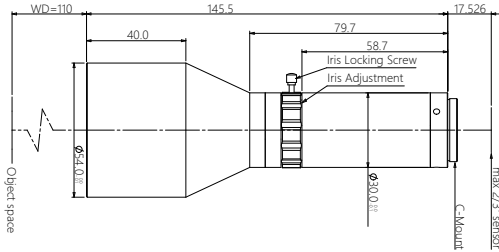
DTCA230-37



— Diff.Limit-Tangential — 0.00 mm-Tangential — 3.90 mm-Tangential — 5.5mm-Tangential
— Diff.Limit-Sagittal — 0.00 mm-Sagittal — 3.90 mm-Sagittal — 5.5mm-Sagittal



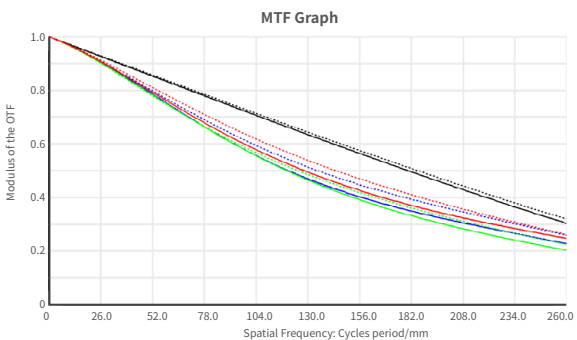
— 0.0mm-Tangential — 5.5mm-Tangential — 8mm-Tangential — 12mm-Tangential — 18.3mm-Tangential
— 0.0mm-Sagittal — 5.5mm-Sagittal — 8mm-Sagittal — 12mm-Sagittal — 18.3mm-Sagittal



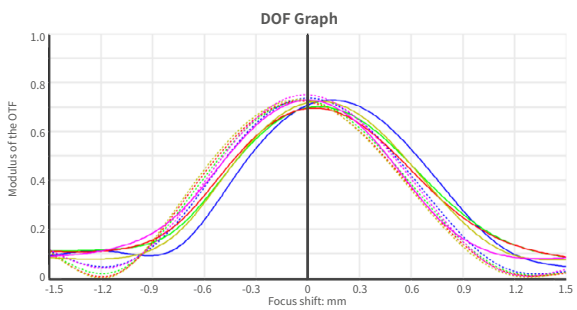
FOV(Φmm)	37
Mag.(x)	0.300
WD(mm)	110±2
Max Sensor Size(Φmm)	11.0(2/3")
F/#	3.75
MTF30(lp/mm)	>220
DOF(mm)	±1.7@F3.75
Distortion(% max)	<0.1
Telecentricity(° max)	<0.1
I/O (mm)	273±2
Length(mm)	145.5
Mount	C
Weight(kg)	0.4
Iris	YES
Coaxial Light	NO

Field of View (mmxmm)	
1/1.8" EV76C570 (7.2x5.4)	24.0x18.0
1/1.7" IMX226 (7.5x5.6)	25.0x18.7
2/3" IMX250/264 (8.45x7.1)	28.2x23.7

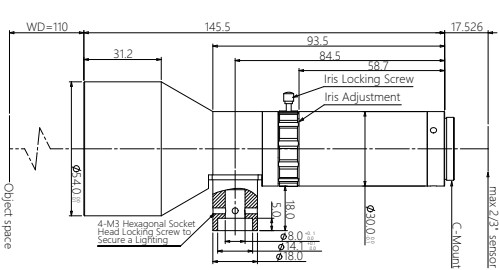
DTCA230-37C



— Diff.Limit-Tangential — 0.00 mm-Tangential — 3.90 mm-Tangential — 5.5mm-Tangential
— Diff.Limit-Sagittal — 0.00 mm-Sagittal — 3.90 mm-Sagittal — 5.5mm-Sagittal



— 0.0mm-Tangential — 5.5mm-Tangential — 8mm-Tangential — 12mm-Tangential — 18.3mm-Tangential
— 0.0mm-Sagittal — 5.5mm-Sagittal — 8mm-Sagittal — 12mm-Sagittal — 18.3mm-Sagittal



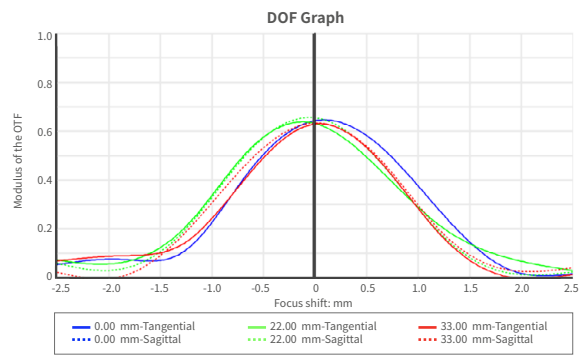
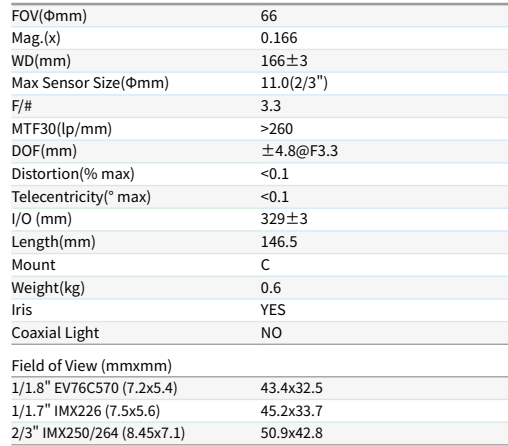
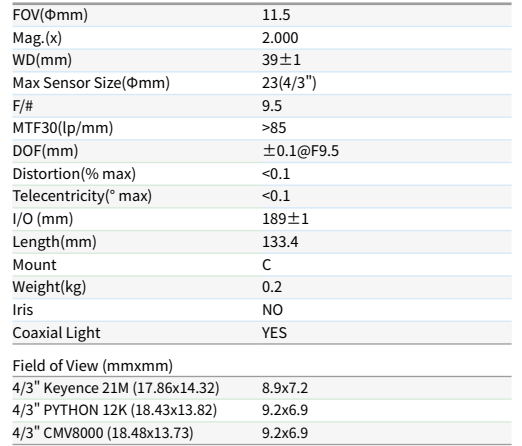
FOV(Φmm)	37
Mag.(x)	0.300
WD(mm)	110±2
Max Sensor Size(Φmm)	11.0(2/3")
F/#	3.75
MTF30(lp/mm)	>220
DOF(mm)	±1.7@F3.75
Distortion(% max)	<0.1
Telecentricity(° max)	<0.1
I/O (mm)	273±2
Length(mm)	145.5
Mount	C
Weight(kg)	0.4
Iris	YES
Coaxial Light	YES

Field of View (mmxmm)	
1/1.8" EV76C570 (7.2x5.4)	24.0x18.0
1/1.7" IMX226 (7.5x5.6)	25.0x18.7
2/3" IMX250/264 (8.45x7.1)	28.2x23.7

DTCA230-37

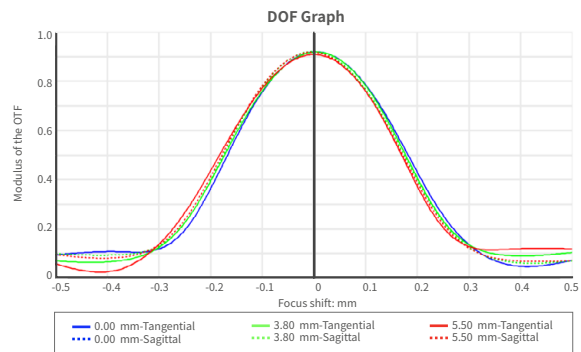
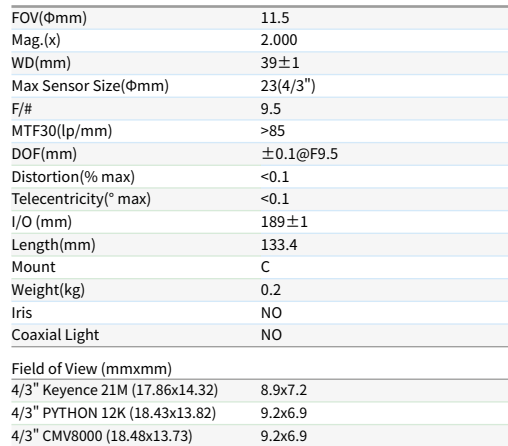
DTCA230-37C

DTC A230-66

[illegible]

DTC A430-11.5C

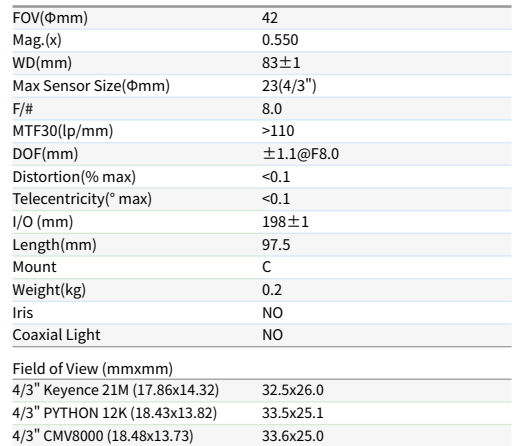
DTCA430-11.5



The graph displays the MTF performance of different lens configurations. The x-axis represents Spatial Frequency in cycles per millimeter (mm⁻¹), ranging from 0 to 125. The y-axis represents the MTF value, ranging from 0 to 1.0. The legend identifies the following configurations:

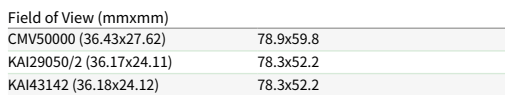
- 0.6mm-Tangential (Blue solid line)
- 0.6mm-Sagittal (Blue dotted line)
- 5.75mm-Tangential (Green dashed line)
- 5.75mm-Sagittal (Green dotted line)
- 8.1mm-Tangential (Red solid line)
- 8.1mm-Sagittal (Red dotted line)
- 8.8mm-Tangential (Yellow solid line)
- 8.8mm-Sagittal (Yellow dotted line)
- 11.5mm-Tangential (Magenta solid line)
- 11.5mm-Sagittal (Magenta dotted line)

The graph shows that MTF decreases as spatial frequency increases. Tangential MTF is generally higher than Sagittal MTF for the same focal length. The 0.6mm focal length configuration maintains the highest MTF across the frequency range, while the 11.5mm configuration shows the lowest performance at higher frequencies.

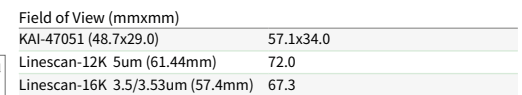
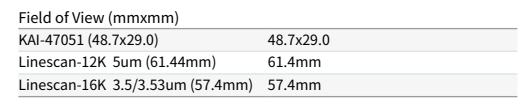


DTCA430-42-C

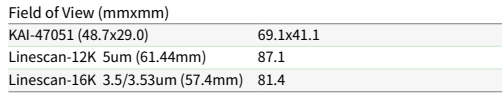
DTC A35F-94C-AL



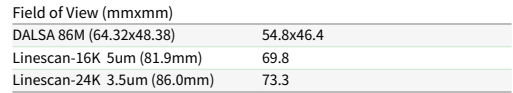
0.0mm-Tangential ■ 15.4mm-Tangential ■ 22mm-Tangential ■ 31.1mm-Tangential ■ 37.4mm-Tangential ■ 41mm-Tangential ■ 44mm-Tangential
0.0mm-Sagittal ■ 15.4mm-Sagittal ■ 22mm-Sagittal ■ 31.1mm-Sagittal ■ 37.4mm-Sagittal ■ 41mm-Sagittal ■ 44mm-Sagittal



DTC A16K-88-AL

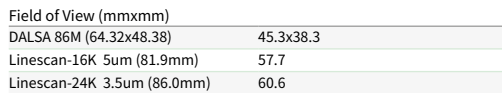


■ Diff.Limit-Tangential ■ 0.0mm-Tangential ■ 15.4 mm-Tangential ■ 22mm-Tangential ■ 31.1 mm-Tangential ■ 37.4mm-Tangential ■ 41mm-Tangential ■ 44mm-Tangent
 ■ Diff.Limit-Sagittal ■ 0.0mm-Sagittal ■ 15.4 mm-Sagittal ■ 22mm-Sagittal ■ 31.1 mm-Sagittal ■ 37.4mm-Sagittal ■ 41mm-Sagittal ■ 44mm-Sagittal

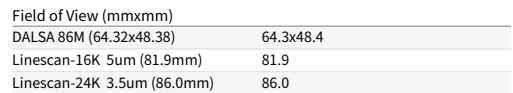


DTCA24K-75-AL

DTCA24K-62-AL



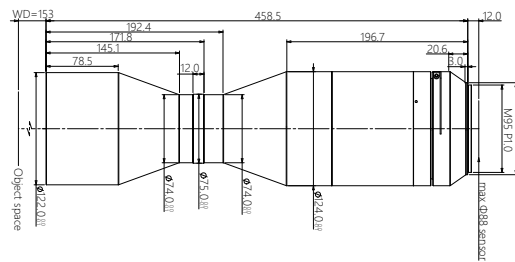
— Diff.Limit-Tangential — 0.0mm-Tangential — 15.4mm-Tangential — 22.0mm-Tangential — 31.2mm-Tangential — 37.4mm-Tangential — 44.0 mm-Tangential
 •• Diff.Limit-Sagittal •• 0.0mm-Sagittal •• 15.4mm-Sagittal •• 22.0 mm-Sagittal •• 31.2mm-Sagittal •• 37.4mm-Sagittal •• 44.0 mm-Sagittal



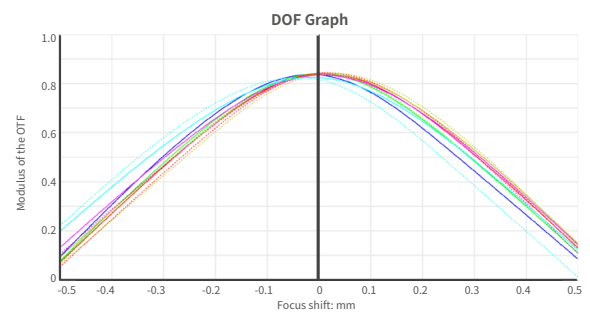
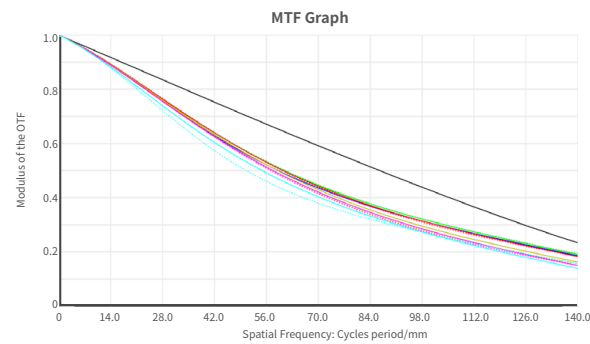
DTCA24K-88-AL

DTCA24K-92-AL

DTCA24K-92-AL (NEW)



FOV(Φmm)	91.6
Mag.(x)	0.960
WD(mm)	153±3
Max Sensor Size(Φmm)	88
F/#	8.0
MTF30(lp/mm)	>90
DOF(mm)	±0.3@F8.0
Distortion(% max)	<0.1
Telecentricity(° max)	<0.1
I/O (mm)	624±3
Length(mm)	458.5
Mount	M95
Weight(kg)	-
Iris	NO
Coaxial Light	NO
Field of View (mmxmm)	
DALSA 86M (64.32x48.38)	67.0x50.4
Linescan-16K 5um (81.9mm)	85.3
Linescan-24K 3.5um (86.0mm)	89.6



WWK Series

WWK 5Mp-20Mp telecentric lens

★ Features

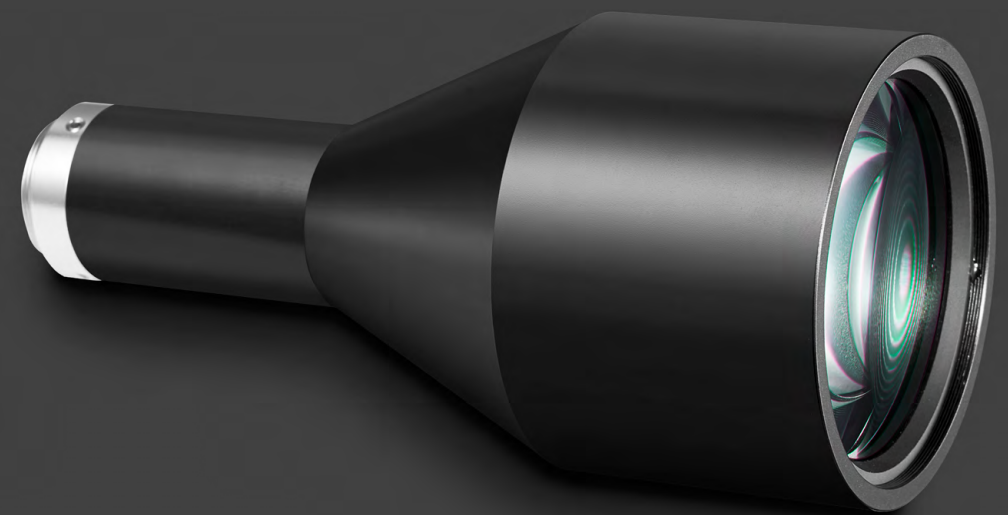
- Object side telecentric lens, support 1.1", 5Mp-20Mp area scan camera.
- A variety of low magnification models, apply to large FOV requirement.
- High definition, low distortion, good telecentricity, especially suitable for high-precision AOI and positioning applications.
- Long working distance specifications facilitate placing of lighting and machine platform.
- Built-in coaxial lighting, especially suitable for inspection of wafers, glass devices, display devices.
- Quickly customization apply to different camera specifications, as well as magnification, working distance, DOF requirements.

Name Rule

WWK Series CCD-1/1.8"

WWK 03 - 180 - 118

Magnification-0.3x WD-180mm



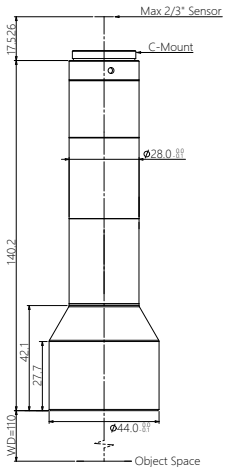
WWK - WD 110mm

High Resolution
Object Side
Telecentric Lens



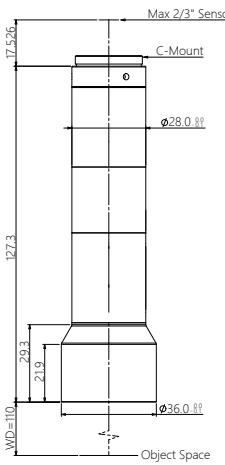
Lens Model	Mag.(x)	WD (mm)	Sensor Size (Φmm)	F/#	MTF30 (lp/mm)	DOF (mm)	Distortion (% max)	Telecentricity (° max)	Length (mm)	Mount	Coaxial Light
WWK04-110-230	0.4	110±2	11.0(2/3")	7	>140	±1.8@F7	<0.02	<0.03	140.2	C	NO
WWK04-110C-230	0.4	110±2	11.0(2/3")	7	>140	±1.8@F7	<0.02	<0.03	140.2	C	YES
WWK05-110-230	0.5	110±2	11.0(2/3")	7	>140	±1.1@F7	<0.03	<0.03	127.3	C	NO
WWK05-110C-230	0.5	110±2	11.0(2/3")	7	>140	±1.1@F7	<0.03	<0.03	127.3	C	YES
WWK08-110-111	0.8	110±2	18.0(1.1")	7.9	>85	±0.5@F7.9	<0.1	<0.1	122.7	C	NO
WWK08-110C-111	0.8	110±2	18.0(1.1")	7.9	>85	±0.5@F7.9	<0.1	<0.1	122.7	C	YES
WWK10-110-111	1.0	110±2	18.0(1.1")	7	>105	±0.3@F7	<0.13	<0.18	133.3	C	NO
WWK10-110C-111	1.0	110±2	18.0(1.1")	7	>105	±0.3@F7	<0.13	<0.18	133.3	C	YES
WWK15-110-111	1.5	110±2	18.0(1.1")	10	>78	±0.18@F10	<0.1	<0.1	128.8	C	NO
WWK15-110C-111	1.5	110±2	18.0(1.1")	10	>78	±0.18@F10	<0.1	<0.1	128.8	C	YES
WWK20-110-111	2.0	110±2	18.0(1.1")	13.5	>60	±0.14@F13.5	<0.1	<0.1	133.2	C	NO
WWK20-110C-111	2.0	110±2	18.0(1.1")	13.5	>60	±0.14@F13.5	<0.1	<0.1	133.2	C	YES
WWK30-110-111	3.0	110±2	18.0(1.1")	20.1	>40	±0.09@F20.1	<0.1	<0.1	161.8	C	NO
WWK30-110C-111	3.0	110±2	18.0(1.1")	20.1	>40	±0.09@F20.1	<0.1	<0.1	166.1	C	YES

WWK04-110-230 (NEW)



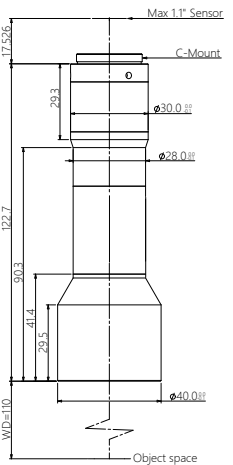
Mag.(x)	0.4
WD(mm)	110±2
Max Sensor Size(Φmm)	11.0(2/3")
F/#	7
MTF30 (lp/mm)	>140
DOF(mm)	±1.8@F7
Distortion(% max)	<0.02
Telecentricity(° max)	<0.03
Length(mm)	140.2
Mount	C
Coaxial Light	NO
Field of View(mm xmm)	
1/1.8" EV76C570 (7.2x5.4)	18.0x13.5
1/1.7" IMX226 (7.5x5.6)	18.8x14.0
2/3" IMX250/264 (8.45x7.1)	21.1x17.8

WWK05-110-230 (NEW)



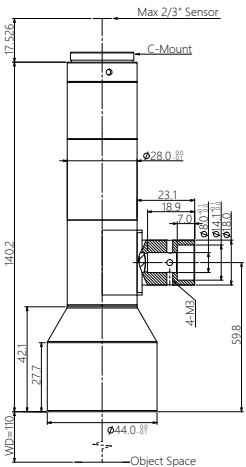
Mag.(x)	0.5
WD(mm)	110±2
Max Sensor Size(Φmm)	11.0(2/3")
F/#	7
MTF30 (lp/mm)	>140
DOF(mm)	±1.1@F7
Distortion(% max)	<0.03
Telecentricity(° max)	<0.03
Length(mm)	127.3
Mount	C
Coaxial Light	NO
Field of View(mm xmm)	
1/1.8" EV76C570 (7.2x5.4)	14.4x10.8
1/1.7" IMX226 (7.5x5.6)	15.0x11.2
2/3" IMX250/264 (8.45x7.1)	16.9x14.2

WWK08-110-111



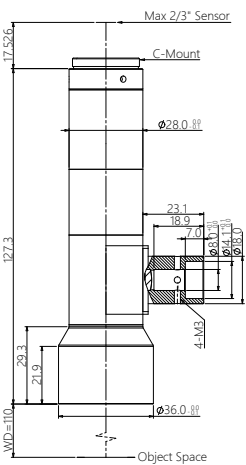
Mag.(x)	0.8
WD(mm)	110±2
Max Sensor Size(Φmm)	18.0(1.1")
F/#	7.9
MTF30 (lp/mm)	>85
DOF(mm)	±0.5@F7.9
Distortion(% max)	<0.1
Telecentricity(° max)	<0.1
Length(mm)	122.7
Mount	C
Coaxial Light	NO
Field of View(mm xmm)	
1" IMX183 (13.13x8.76)	16.4x11.0
1.1" IMX253 (14.19x10.38)	17.7x13.0

WWK04-110C-230 (NEW)



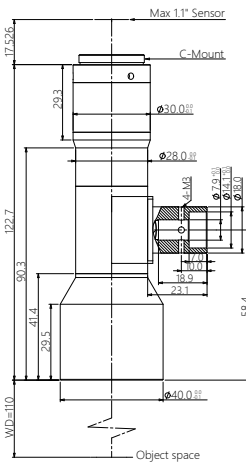
Mag.(x)	0.4
WD(mm)	110±2
Max Sensor Size(Φmm)	11.0(2/3")
F/#	7
MTF30 (lp/mm)	>140
DOF(mm)	±1.8@F7
Distortion(% max)	<0.02
Telecentricity(° max)	<0.03
Length(mm)	140.2
Mount	C
Coaxial Light	YES
Field of View(mm xmm)	
1/1.8" EV76C570 (7.2x5.4)	18.0x13.5
1/1.7" IMX226 (7.5x5.6)	18.8x14.0
2/3" IMX250/264 (8.45x7.1)	21.1x17.8

WWK05-110C-230 (NEW)



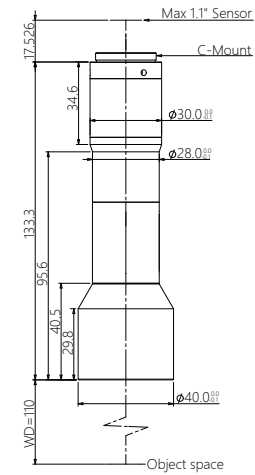
Mag.(x)	0.5
WD(mm)	110±2
Max Sensor Size(Φmm)	11.0(2/3")
F/#	7
MTF30 (lp/mm)	>140
DOF(mm)	±1.1@F7
Distortion(% max)	<0.03
Telecentricity(° max)	<0.03
Length(mm)	127.3
Mount	C
Coaxial Light	YES
Field of View(mm xmm)	
1/1.8" EV76C570 (7.2x5.4)	14.4x10.8
1/1.7" IMX226 (7.5x5.6)	15.0x11.2
2/3" IMX250/264 (8.45x7.1)	16.9x14.2

WWK08-110C-111



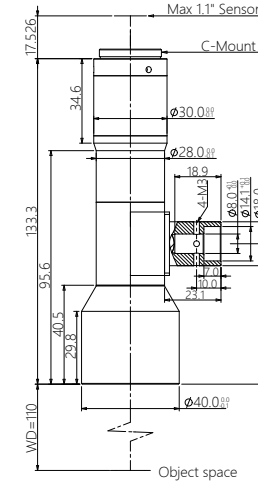
Mag.(x)	0.8
WD(mm)	110±2
Max Sensor Size(Φmm)	18.0(1.1")
F/#	7.9
MTF30 (lp/mm)	>85
DOF(mm)	±0.5@F7.9
Distortion(% max)	<0.1
Telecentricity(° max)	<0.1
Length(mm)	122.7
Mount	C
Coaxial Light	YES
Field of View(mm xmm)	
1" IMX183 (13.13x8.76)	16.4x11.0
1.1" IMX253 (14.19x10.38)	17.7x13.0

WWK10-110-111



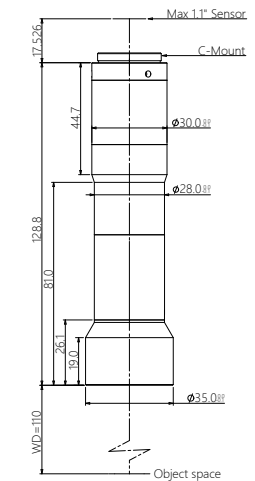
Mag.(x)	1.0
WD(mm)	110±2
Max Sensor Size(Φmm)	18.0(1.1")
F/#	7
MTF30 (lp/mm)	>105
DOF(mm)	±0.3@F7
Distortion(% max)	<0.13
Telecentricity(° max)	<0.18
Length(mm)	133.3
Mount	C
Coaxial Light	NO
Field of View(mm×mm)	
1" IMX183 (13.13x8.76)	13.1x8.8
1.1" IMX253 (14.19x10.38)	14.2x10.4

WWK10-110C-111



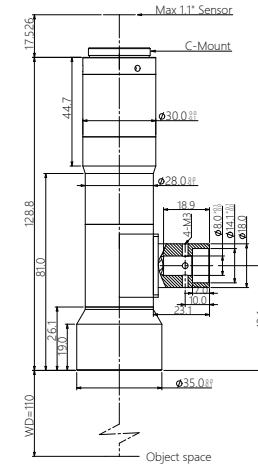
Mag.(x)	1.0
WD(mm)	110±2
Max Sensor Size(Φmm)	18.0(1.1")
F/#	7
MTF30 (lp/mm)	>105
DOF(mm)	±0.3@F7
Distortion(% max)	<0.13
Telecentricity(" max)	<0.18
Length(mm)	133.3
Mount	C
Coaxial Light	YES
Field of View(mm×mm)	
1" IMX183 (13.13×8.76)	13.1×8.8
1.1" IMX253 (14.19×10.38)	14.2×10.4

WWK15-110-111



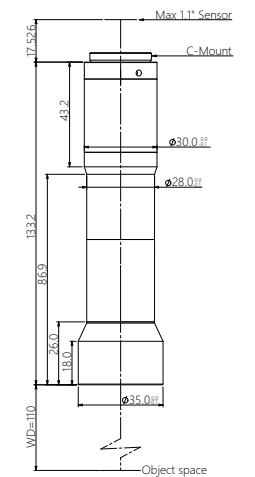
Mag.(x)	1.5
WD(mm)	110±2
Max Sensor Size(Φmm)	18.0(1.1")
F/#	10
MTF30 (lp/mm)	>78
DOF(mm)	±0.18@F10
Distortion(% max)	<0.1
Telecentricity(° max)	<0.1
Length(mm)	128.8
Mount	C
Coaxial Light	NO
Field of View(mm×mm)	
1" IMX183 (13.13×8.76)	8.8×5.8
1.1" IMX253 (14.19×10.38)	9.5×6.9

WWK15-110C-111



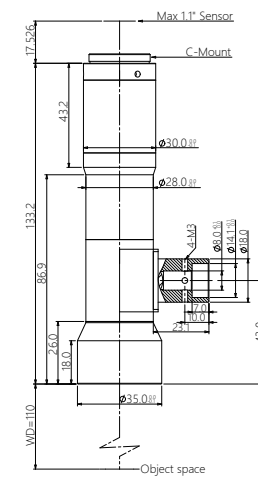
Mag.(x)	1.5
WD(mm)	110±2
Max Sensor Size(Φmm)	18.0(1.1")
F/#	10
MTF30 (lp/mm)	>78
DOF(mm)	±0.18@F10
Distortion(% max)	<0.1
Telecentricity(" max)	<0.1
Length(mm)	128.8
Mount	C
Coaxial Light	YES
Field of View(mm xmm)	
1" IMX183 (13.13x8.76)	8.8x5.8
1.1" IMX253 (14.19x10.38)	9.5x6.9

WWK20-110-111



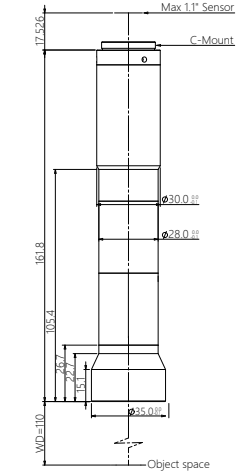
Mag.(x)	2.0
WD(mm)	110±2
Max Sensor Size(Φmm)	18.0(1.1")
F/#	13.5
MTF30 (lp/mm)	>60
DOF(mm)	±0.14@F13.5
Distortion(% max)	<0.1
Telecentricity(° max)	<0.1
Length(mm)	133.2
Mount	C
Coaxial Light	NO
Field of View(mmxxmm)	
1" IMX183 (13.13x8.76)	6.6x4.4
1.1" IMX253 (14.19x10.38)	7.1x5.2

WWK20-110C-111



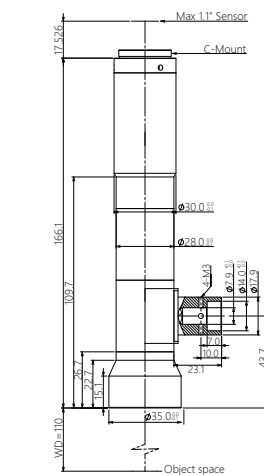
Mag.(x)	2.0
WD(mm)	110±2
Max Sensor Size(Φmm)	18.0(1.1")
F/#	13.5
MTF30 (lp/mm)	>60
DOF(mm)	±0.14@F13.5
Distortion(% max)	<0.1
Telecentricity(" max)	<0.1
Length(mm)	133.2
Mount	C
Coaxial Light	YES
Field of View(mm xmm)	
1" IMX183 (13.13x8.76)	6.6x4.4
1.1" IMX253 (14.19x10.38)	7.1x5.2

WWK30-110-111



Mag.(x)	3.0
WD(mm)	110±2
Max Sensor Size(Φmm)	18.0(1.1")
F/#	20.1
MTF30 (lp/mm)	>40
DOF(mm)	±0.09@F20.1
Distortion(% max)	<0.1
Telecentricity(° max)	<0.1
Length(mm)	161.8
Mount	C
Coaxial Light	NO
Field of View(mm×mm)	
1" IMX183 (13.13×8.76)	4.4×2.9
1.1" IMX253 (14.19×10.38)	4.7×3.5

WWK30-110C-111



Mag.(x)	3.0
WD(mm)	110±2
Max Sensor Size(Φmm)	18.0(1.1")
F/#	20.1
MTF30 (lp/mm)	>40
DOF(mm)	±0.09@F20.1
Distortion(% max)	<0.1
Telecentricity(° max)	<0.1
Length(mm)	166.1
Mount	C
Coaxial Light	YES
Field of View(mm×mm)	
1" IMX183 (13.13x8.76)	4.4x2.9
1.1" IMX253 (14.19x10.38)	4.7x3.5

Products recommendation

1"/1.1" Megapixel FA lens

Model: MFA111

Special description

Support 1.1" 12Mp FA focal lens.

Focal length options:

6mm, 8mm, 12mm, 16mm, 25mm, 35mm, 50mm, 75mm.

Product pictures



MFA1-110-5M12.5



MFA1-110-5M50

WWK - WD 220mm

High Resolution

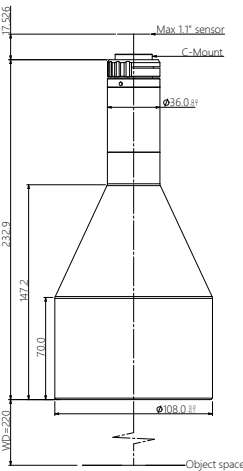
Object Side

Telecentric Lens



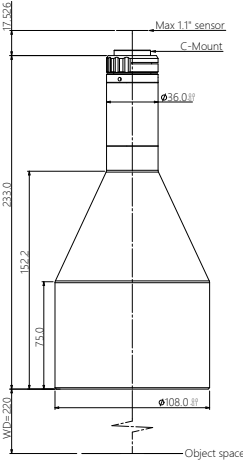
Lens Model	Mag.(x)	WD (mm)	Sensor Size (Φmm)	F/#	MTF30 (lp/mm)	DOF (mm)	Distortion (% max)	Telecentricity (° max)	Length (mm)	Mount	Coaxial Light
WWK022-220-111	0.22	220±3	18.0(1.1")	8	>110	±6.6@F8	<0.1	<0.15	232.9	C	NO
WWK023-220-111	0.23	220±3	18.0(1.1")	8	>110	±6.0@F8	<0.1	<0.18	233.0	C	NO
WWK0246-220-111	0.246	220±3	18.0(1.1")	8	>100	±5.3@F8	<0.1	<0.13	232.9	C	NO
WWK0275-220-111	0.275	220±3	18.0(1.1")	8	>105	±4.2@F8	<0.1	<0.15	242.9	C	NO
WWK0367-220-110	0.367	220±3	16.0(1")	8	>115	±2.4@F8	<0.1	<0.1	214.9	C	NO
WWK046-220-110	0.46	220±3	16.0(1")	11.6	>80	±2.2@F11.6	<0.25	<0.1	205.2	C	NO
WWK046-220C-110	0.46	220±3	16.0(1")	11.6	>80	±2.2@F11.6	<0.25	<0.1	205.2	C	YES
WWK05-220-110	0.5	220±3	16.0(1")	8	>110	±1.3@F8	<0.1	<0.1	205.7	C	NO
WWK05-220C-110	0.5	220±3	16.0(1")	8	>110	±1.3@F8	<0.1	<0.1	205.7	C	YES
WWK055-220-111	0.55	220±3	18.0(1.1")	10.1	>90	±1.3@F10.1	<0.1	<0.1	215.6	C	NO
WWK055-220C-111	0.55	220±3	18.0(1.1")	10.1	>90	±1.3@F10.1	<0.1	<0.1	215.6	C	YES

WWK022-220-111



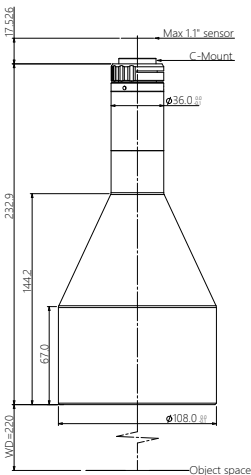
Mag.(x)	0.22
WD(mm)	220±3
Max Sensor Size(Φmm)	18.0(1.1")
F/#	8
MTF30 (lp/mm)	>110
DOF(mm)	±6.6@F8
Distortion(% max)	<0.1
Telecentricity(° max)	<0.15
Length(mm)	232.9
Mount	C
Coaxial Light	NO
Field of View(mm xmm)	
1" IMX183 (13.13x8.76)	59.7x39.8
1.1" IMX253 (14.19x10.38)	64.5x47.2

WWK023-220-111



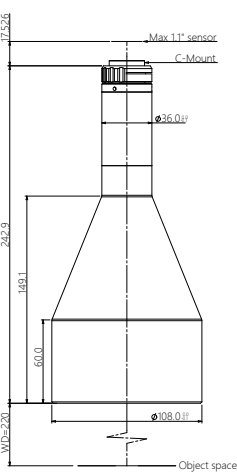
Mag.(x)	0.23
WD(mm)	220±3
Max Sensor Size(Φmm)	18.0(1.1")
F/#	8
MTF30 (lp/mm)	>110
DOF(mm)	±6.0@F8
Distortion(% max)	<0.1
Telecentricity(° max)	<0.18
Length(mm)	233.0
Mount	C
Coaxial Light	NO
Field of View(mm xmm)	
1" IMX183 (13.13x8.76)	57.1x38.1
1.1" IMX253 (14.19x10.38)	61.7x45.1

WWK0246-220-111



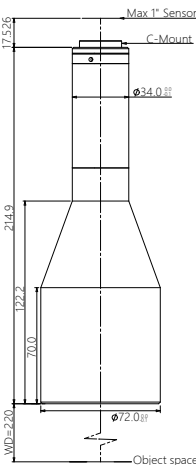
Mag.(x)	0.246
WD(mm)	220±3
Max Sensor Size(Φmm)	18.0(1.1")
F/#	8
MTF30 (lp/mm)	>100
DOF(mm)	±5.3@F8
Distortion(% max)	<0.1
Telecentricity(° max)	<0.13
Length(mm)	232.9
Mount	C
Coaxial Light	NO
Field of View(mm xmm)	
1" IMX183 (13.13x8.76)	53.4x35.6
1.1" IMX253 (14.19x10.38)	57.7x42.2

WWK0275-220-111



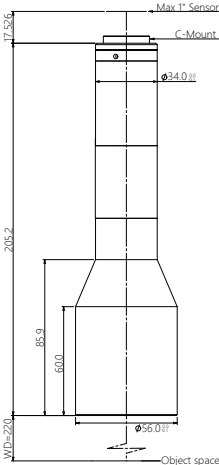
Mag.(x)	0.275
WD(mm)	220±3
Max Sensor Size(Φmm)	18.0(1.1")
F/#	8
MTF30 (lp/mm)	>105
DOF(mm)	±4.2@F8
Distortion(% max)	<0.1
Telecentricity(° max)	<0.15
Length(mm)	242.9
Mount	C
Coaxial Light	NO
Field of View(mm xmm)	
1" IMX183 (13.13x8.76)	47.7x31.9
1.1" IMX253 (14.19x10.38)	51.6x37.7

WWK0367-220-110



Mag.(x)	0.367
WD(mm)	220±3
Max Sensor Size(Φmm)	16.0(1")
F/#	8
MTF30 (lp/mm)	>115
DOF(mm)	±2.4@F8
Distortion(% max)	<0.1
Telecentricity(° max)	<0.1
Length(mm)	214.9
Mount	C
Coaxial Light	NO
Field of View(mm xmm)	
1" PYTHON 5000(12.43x9.83)	33.9x26.8
1" IMX255 (14.19x7.51)	38.7x20.5
1" IMX183 (13.13x8.76)	35.8x23.9

WWK046-220-110 (NEW)



Mag.(x)	0.46
WD(mm)	220±3
Max Sensor Size(Φmm)	16.0(1")
F/#	11.6
MTF30 (lp/mm)	>80
DOF(mm)	±2.2@F11.6
Distortion(% max)	<0.25
Telecentricity(° max)	<0.1
Length(mm)	205.2
Mount	C
Coaxial Light	NO
Field of View(mm xmm)	
1" PYTHON 5000(12.43x9.83)	27.0x21.4
1" IMX255 (14.19x7.51)	30.8x16.3
1" IMX183 (13.13x8.76)	28.5x19.0

DTCA Series
Bi-Telecentric Lens
with Iris and Coaxial Light

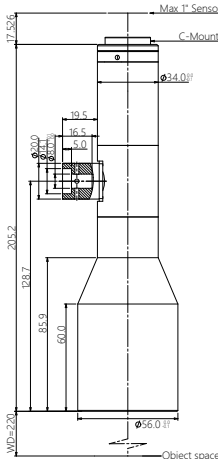
WWK Series
Telecentric Lens for
AOI Inspection

DTCM Series
Bi-Telecentric Lens

WWH Series
Megapixel Object Side
Telecentric Lens

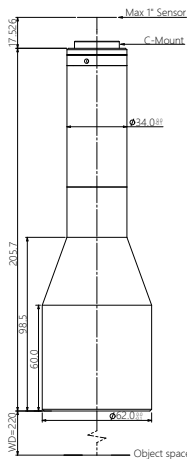
WWL Series
Standard Fixed
Magnification Lens

WWK046-220C-110 (NEW)



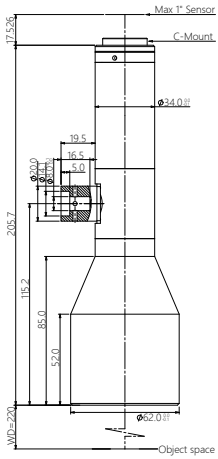
Mag.(x)	0.46
WD(mm)	220±3
Max Sensor Size(Φmm)	16.0(1")
F/#	11.6
MTF30 (lp/mm)	>80
DOF(mm)	±2.2@F11.6
Distortion(% max)	<0.25
Telecentricity(° max)	<0.1
Length(mm)	205.2
Mount	C
Coaxial Light	YES
Field of View(mm xmm)	
1" PYTHON 5000(12.43x9.83)	27.0x21.4
1" IMX255 (14.19x7.51)	30.8x16.3
1" IMX183 (13.13x8.76)	28.5x19.0

WWK05-220-110



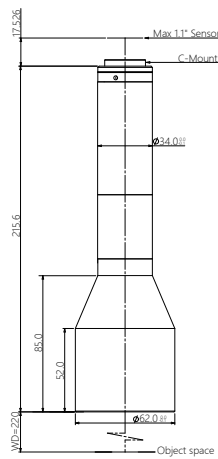
Mag.(x)	0.5
WD(mm)	220±3
Max Sensor Size(Φmm)	16.0(1")
F/#	8
MTF30 (lp/mm)	>110
DOF(mm)	±1.3@F8
Distortion(% max)	<0.1
Telecentricity(° max)	<0.1
Length(mm)	205.7
Mount	C
Coaxial Light	NO
Field of View(mm xmm)	
1" PYTHON 5000(12.43x9.83)	24.9x19.7
1" IMX255 (14.19x7.51)	28.4x15.0
1" IMX183 (13.13x8.76)	26.3x17.5

WWK05-220C-110



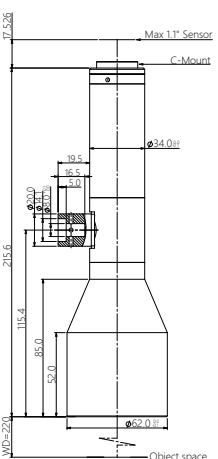
Mag.(x)	0.5
WD(mm)	220±3
Max Sensor Size(Φmm)	16.0(1")
F/#	8
MTF30 (lp/mm)	>110
DOF(mm)	±1.3@F8
Distortion(% max)	<0.1
Telecentricity(° max)	<0.1
Length(mm)	205.7
Mount	C
Coaxial Light	YES
Field of View(mm xmm)	
1" PYTHON 5000(12.43x9.83)	24.9x19.7
1" IMX255 (14.19x7.51)	28.4x15.0
1" IMX183 (13.13x8.76)	26.3x17.5

WWK055-220-111



Mag.(x)	0.55
WD(mm)	220±3
Max Sensor Size(Φmm)	18.0(1.1")
F/#	10.1
MTF30 (lp/mm)	>90
DOF(mm)	±1.3@F10.1
Distortion(% max)	<0.1
Telecentricity(° max)	<0.1
Length(mm)	215.6
Mount	C
Coaxial Light	NO
Field of View(mm xmm)	
1" IMX183 (13.13x8.76)	23.9x15.9
1.1" IMX253 (14.19x10.38)	25.8x18.9

WWK055-220C-111



Mag.(x)	0.55
WD(mm)	220±3
Max Sensor Size(Φmm)	18.0(1.1")
F/#	10.1
MTF30 (lp/mm)	>90
DOF(mm)	±1.3@F10.1
Distortion(% max)	<0.1
Telecentricity(° max)	<0.1
Length(mm)	215.6
Mount	C
Coaxial Light	YES
Field of View(mm xmm)	
1" IMX183 (13.13x8.76)	23.9x15.9
1.1" IMX253 (14.19x10.38)	25.8x18.9

DTCM Series

Huge range of bi-telecentric lens

★ Features

- DTCM series of bi-telecentric lenses are designed extremely with excellent imaging effect.
- FOV range from 26mm-300mm, suitable for most of industrial objects.
- Lens families for 1/2.5"-1.1" C-Mount sensor, 4/3"-59mm M/F-Mount.
- Special modular design allows object side and image side lens components to be combined into 227 standard models to meet an enormous range of application requirements.
- Big aperture, good telecentricity, near zero distortion, big depth for high quality imaging.
- Each product need to be tested strictly before shipping and all-sided test report is available for each piece of products.

👤 Name Rule

DTCM Series

Diagonal of FOV is 56mm

DTCM

125

-

56

-

AL

Largest compatible with 1/2.5" sensor size

Back focal length is adjustable



DTC Series
Bi-Telecentric Lens
with Iris and Coaxial Light

WWK Series
Telecentric Lens for
AOI Inspection

DTCM Series
Bi-Telecentric Lens

WWH Series
Megapixel Object Side
Telecentric Lens

WWL Series
Standard Fixed
Magnification Lens

DTCM Series Magnification Crosstab (1)

FOV (mm) Mag. (x) CCD Sensor	26	36	42	48	56	64H	72	80H	90	100	Mount
DTCM125 (1/2.5" 7.2mm)	0.277	0.200	0.171	0.150	0.129	0.113	0.100	0.090	0.080	0.072	C
DTCM120 (1/2" 8.0mm)	0.308	0.222	0.190	0.167	0.143	0.125	0.111	0.100	0.089	0.080	C
DTCM118 (1/1.8" 9.0mm)	0.346	0.250	0.214	0.188	0.161	0.141	0.125	0.113	0.100	0.090	C
DTCM230 (2/3" 11.4mm)	0.438	0.317	0.271	0.238	0.204	0.178	0.158	0.142	0.127	0.114	C
DTCM110 (1" 16.6mm)	0.638	0.460	0.395	0.346	0.296	0.259	0.231	0.208	0.184	0.166	C
DTCM111 (1.1" 18.4mm)	0.708	0.511	0.438	0.383	0.329	0.288	0.256	0.230	0.204	0.184	C
DTCM430 (4/3" 24mm)	0.923	0.670	0.571	0.500	0.429	0.375	0.333	0.300	0.267	0.240	M42/M48/ M58
DTCM175 (1.75" 29mm)	1.115	0.806	0.690	0.604	0.518	0.453	0.403	0.363	0.322	0.290	M42/M48/ M58
DTCM210 (2" 33mm)	×	0.917	0.786	0.688	0.589	0.516	0.458	0.413	0.367	0.330	M42/M48/ M58
DTCM71M (39mm)	×	1.083	0.929	0.813	0.696	0.609	0.542	0.488	0.433	0.390	M58
DTCM35F (44mm)	×	×	1.038	0.908	0.779	0.681	0.606	0.545	0.484	0.436	M58
DTCM16K (59mm)	×	×	×	×	×	×	×	0.738	0.656	×	M72
WD(mm)	73	110	118	128	138	158	178	228	208	258	

Suggestion: Select DTCM telecentric lens via "sensor" and "FOV".
e.g. if you use 1/2.5" camera, and the diagonal Of your FOV is within 56mm, then we suggest you to use DTCM125-56-AL.

DTCM Series
Magnification Crosstab

DTCM125 Series

DTCM120 Series

DTCM118 Series

DTCM230 Series

DTCM Series Magnification Crosstab (2)

FOV (mm) Mag. (x) CCD Sensor	110	120	136	150	170	190	216	240H	268	300	Mount
DTCM125 (1/2.5" 7.2mm)	0.066	0.060	0.053	0.048	0.042	0.038	0.033	0.030	0.027	0.024	C
DTCM120 (1/2" 8.0mm)	0.073	0.067	0.059	0.053	0.047	0.042	0.037	0.033	0.030	0.027	C
DTCM118 (1/1.8" 9.0mm)	0.082	0.075	0.066	0.060	0.053	0.047	0.042	0.038	0.034	0.030	C
DTCM230 (2/3" 11.4mm)	0.104	0.095	0.084	0.076	0.067	0.060	0.053	0.048	0.043	0.038	C
DTCM110 (1" 16.6mm)	0.151	0.138	0.122	0.110	0.098	0.087	0.077	0.069	0.062	0.055	C
DTCM111 (1.1" 18.4mm)	0.167	0.153	0.135	0.123	0.108	0.097	0.085	0.077	0.069	0.061	C
DTCM430 (4/3" 24mm)	0.218	0.200	0.177	0.160	0.141	0.126	0.111	0.100	0.090	0.080	M42/M48/ M58
DTCM175 (1.75" 29mm)	0.264	0.242	0.213	0.193	0.171	0.153	0.134	0.121	0.108	0.097	M42/M48/ M58
DTCM210 (2" 33mm)	0.300	0.275	0.243	0.220	0.194	0.174	0.153	0.138	0.123	0.110	M42/M48/ M58
DTCM71M (39mm)	0.355	0.325	0.287	0.260	0.229	0.205	0.181	0.163	0.146	0.130	M58
DTCM35F (44mm)	0.396	0.363	0.321	0.291	0.256	0.229	0.202	0.182	0.163	0.145	M58
DTCM16K (59mm)	0.536	×	0.434	0.393	0.347	0.311	0.273	0.246	0.220	0.197	M72
WD(mm)	263	280	288	300	318	330	372	410	438	465	

Suggestion: Select DTCM telecentric lens via "sensor" and "FOV".
e.g. if you use 1/2.5" camera, and the diagonal Of your FOV is within 56mm, then we suggest you to use DTCM125-56-AL.

DTCM125 Series

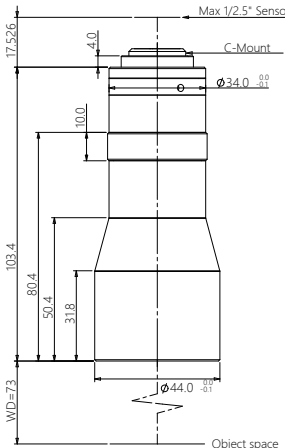
Support 1/2.5"

Cameras



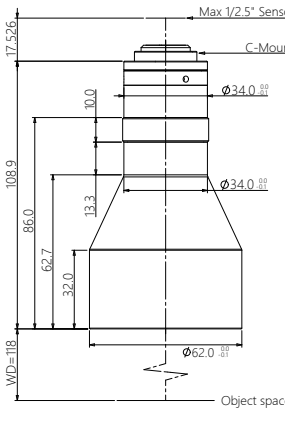
Lens Model	FOV (Φmm)	Mag. β(x)	WD (mm)	Sensor Size (Φmm)	F/#	MTF30 (lp/mm)	DOF (mm)	Distortion (% max)	Telecentricity (° max)	I/O (mm)	Length (mm)	Mount	Weight (kg)
DTCM125-26	26	0.277	73±1	7.2(1/2.5")	4.2	>190	±5.7@F11	<0.1	<0.1	194±1	103.4	C	0.3
DTCM125-36	36	0.200	110±2	7.2(1/2.5")	4.2	>190	±11.0@F11	<0.1	<0.1	251±2	123.5	C	0.4
DTCM125-42	42	0.171	118±3	7.2(1/2.5")	4.2	>200	±15.0@F11	<0.1	<0.1	244±3	108.9	C	0.4
DTCM125-48	48	0.150	128±3	7.2(1/2.5")	4.2	>190	±19.5@F11	<0.1	<0.1	268±3	122.4	C	0.4
DTCM125-56-AL	56	0.129	138±3	7.2(1/2.5")	4.2	>200	±26.4@F11	<0.1	<0.1	301±3	145.0	C	0.7
DTCM125-64H-AL	64	0.113	158±3	7.2(1/2.5")	4.2	>200	±34.8@F11	<0.1	<0.1	333±3	157.5	C	0.8
DTCM125-72-AL	72	0.100	178±3	7.2(1/2.5")	4.2	>195	±44@F11	<0.1	<0.1	373±3	177.5	C	1.0
DTCM125-80H-AL	80	0.090	228±4	7.2(1/2.5")	4.2	>205	±54.3@F11	<0.1	<0.1	413±4	167.5	C	1.9
DTCM125-90-AL	90	0.080	208±3	7.2(1/2.5")	4.2	>200	±68.7@F11	<0.1	<0.1	428±3	202.5	C	1.7
DTCM125-100-AL	100	0.072	258±4	7.2(1/2.5")	4.2	>210	±84.8@F11	<0.1	<0.1	501±4	225.9	C	3.1
DTCM125-110-AL	110	0.066	263±4	7.2(1/2.5")	4.2	>210	±101@F11	<0.1	<0.1	536±4	255.1	C	2.7
DTCM125-120-AL	120	0.060	280±5	7.2(1/2.5")	4.2	>210	±122@F11	<0.1	<0.1	564±5	266.2	C	4.2
DTCM125-136-AL	136	0.053	288±5	7.2(1/2.5")	4.2	>210	±157@F11	<0.1	<0.1	646±5	340.1	C	-
DTCM125-150-AL	150	0.048	300±5	7.2(1/2.5")	4.2	>210	±190@F11	<0.1	<0.1	627±5	309.5	C	5.7
DTCM125-170-AL	170	0.042	318±5	7.2(1/2.5")	4.2	>210	±249@F11	<0.1	<0.1	707±5	371.4	C	6.5
DTCM125-190-AL	190	0.038	330±5	7.2(1/2.5")	4.2	>205	±304@F11	<0.1	<0.1	746±5	398.8	C	11.0
DTCM125-216-AL	216	0.033	372±5	7.2(1/2.5")	4.2	>210	±404@F11	<0.1	<0.1	884±5	494.2	C	13.7
DTCM125-240H-AL	240	0.030	410±6	7.2(1/2.5")	4.2	>210	±489@F11	<0.1	<0.1	968±6	540.1	C	19.3
DTCM125-268-AL	268	0.027	438±6	7.2(1/2.5")	4.2	>210	±604@F11	<0.1	<0.1	1083±6	627.6	C	-
DTCM125-300-AL	300	0.024	465±6	7.2(1/2.5")	4.2	>205	±763@F11	<0.1	<0.1	1101±6	618.5	C	46.5

DTCM125-26



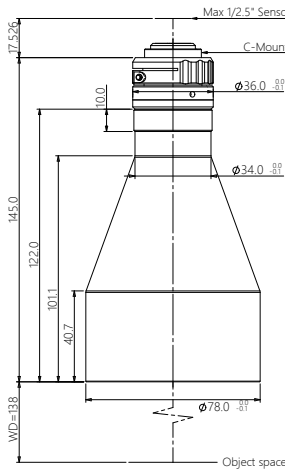
FOV(Φmm)	26
Mag.(x)	0.277
WD(mm)	73±1
Max Sensor Size(Φmm)	7.2(1/2.5")
F/#	4.2
MTF30(lp/mm)	>190
DOF(mm)	±5.7@F11
Distortion(% max)	<0.1
Telecentricity(° max)	<0.1
I/O(mm)	194±1
Length(mm)	103.4
Mount	C
Weight(kg)	0.3
Field of View (mmxmm)	
1/3" AR130/RJ33 (4.8x3.6)	17.3x13.0
1/2.5" 9P001/31 (5.7x4.28)	20.6x15.5

DTCM125-42



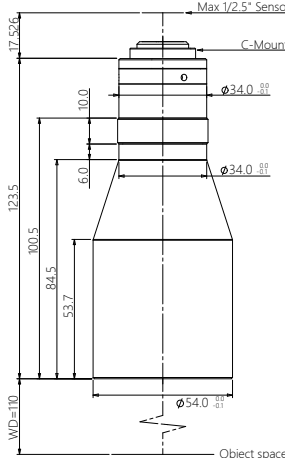
FOV(Φmm)	42
Mag.(x)	0.171
WD(mm)	118±3
Max Sensor Size(Φmm)	7.2(1/2.5")
F/#	4.2
MTF30(lp/mm)	>200
DOF(mm)	±15.0@F11
Distortion(% max)	<0.1
Telecentricity(° max)	<0.1
I/O(mm)	244±3
Length(mm)	108.9
Mount	C
Weight(kg)	0.4
Field of View (mmxmm)	
1/3" AR130/RJ33 (4.8x3.6)	28.1x21.1
1/2.5" 9P001/31 (5.7x4.28)	33.3x25.0

DTCM125-56-AL



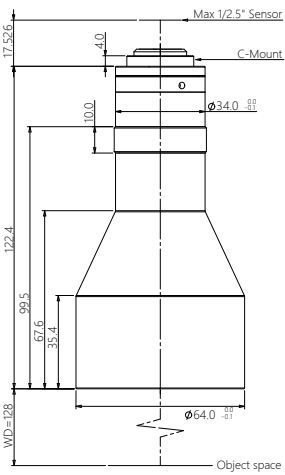
FOV(Φmm)	56
Mag.(x)	0.129
WD(mm)	138±3
Max Sensor Size(Φmm)	7.2(1/2.5")
F/#	4.2
MTF30(lp/mm)	>200
DOF(mm)	±26.4@F11
Distortion(% max)	<0.1
Telecentricity(° max)	<0.1
I/O(mm)	301±3
Length(mm)	145.0
Mount	C
Weight(kg)	0.7
Field of View (mmxmm)	
1/3" AR130/RJ33 (4.8x3.6)	37.2x27.9
1/2.5" 9P001/31 (5.7x4.28)	44.2x33.2

DTCM125-36



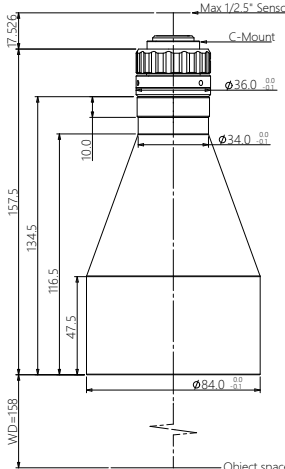
FOV(Φmm)	36
Mag.(x)	0.200
WD(mm)	110±2
Max Sensor Size(Φmm)	7.2(1/2.5")
F/#	4.2
MTF30(lp/mm)	>190
DOF(mm)	±11.0@F11
Distortion(% max)	<0.1
Telecentricity(° max)	<0.1
I/O(mm)	251±2
Length(mm)	123.5
Mount	C
Weight(kg)	0.4
Field of View (mmxmm)	
1/3" AR130/RJ33 (4.8x3.6)	24.0x18.0
1/2.5" 9P001/31 (5.7x4.28)	28.5x21.4

DTCM125-48



FOV(Φmm)	48
Mag.(x)	0.150
WD(mm)	128±3
Max Sensor Size(Φmm)	7.2(1/2.5")
F/#	4.2
MTF30(lp/mm)	>190
DOF(mm)	±19.5@F11
Distortion(% max)	<0.1
Telecentricity(° max)	<0.1
I/O(mm)	268±3
Length(mm)	122.4
Mount	C
Weight(kg)	0.4
Field of View (mmxmm)	
1/3" AR130/RJ33 (4.8x3.6)	32.0x24.0
1/2.5" 9P001/31 (5.7x4.28)	38.0x28.5

DTCM125-64H-AL



FOV(Φmm)	64
Mag.(x)	0.113
WD(mm)	158±3
Max Sensor Size(Φmm)	7.2(1/2.5")
F/#	4.2
MTF30(lp/mm)	>200
DOF(mm)	±34.8@F11
Distortion(% max)	<0.1
Telecentricity(° max)	<0.1
I/O(mm)	333±3
Length(mm)	157.5
Mount	C
Weight(kg)	0.8
Field of View (mmxmm)	
1/3" AR130/RJ33 (4.8x3.6)	42.5x31.9
1/2.5" 9P001/31 (5.7x4.28)	50.4x37.9

DTCA Series
Bi-Telecentric Lens
with Iris and Coaxial Light

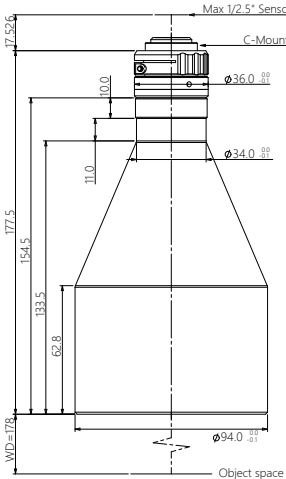
WWK Series
Telecentric Lens for
AOI Inspection

DTCM Series
Bi-Telecentric Lens

WWH Series
Megapixel Object Side
Telecentric Lens

WWL Series
Standard Fixed
Magnification Lens

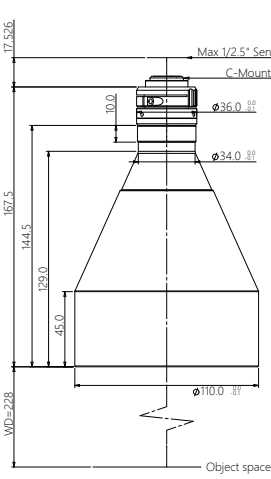
DTCM 125-72-AL



FOV(Φmm)	72
Mag.(x)	0.100
WD(mm)	178±3
Max Sensor Size(Φmm)	7.2(1/2.5")
F/#	4.2
MTF30(lp/mm)	>195
DOF(mm)	±44@F11
Distortion(% max)	<0.1
Telecentricity(° max)	<0.1
I/O(mm)	373±3
Length(mm)	177.5
Mount	C
Weight(kg)	1.0

Field of View (mmxmm)	
1/3" AR130/RJ33 (4.8x3.6)	48.0x36.0
1/2.5" 9P001/31 (5.7x4.28)	57.0x42.8

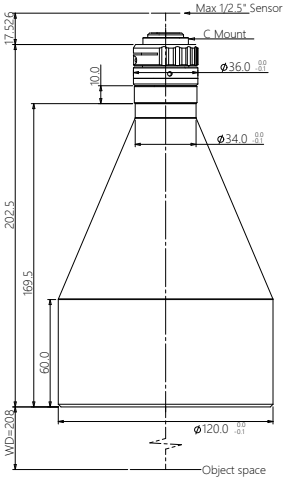
DTCM125-80H-AL



FOV(Φmm)	80
Mag.(x)	0.090
WD(mm)	228±4
Max Sensor Size(Φmm)	7.2(1/2.5")
F/#	4.2
MTF30(lp/mm)	>205
DOF(mm)	±54.3@F11
Distortion(% max)	<0.1
Telecentricity(° max)	<0.1
I/O(mm)	413±4
Length(mm)	167.5
Mount	C
Weight(kg)	1.9

Field of View (mmxmm)	
1/3" AR130/RJ33 (4.8x3.6)	53.3x40.0
1/2.5" 9P001/31 (5.7x4.28)	63.3x47.6

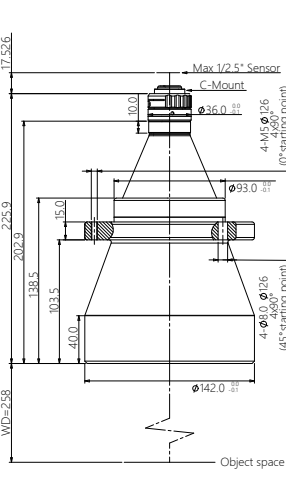
DTCM125-90-AL



FOV(Φmm)	90
Mag.(x)	0.080
WD(mm)	208±3
Max Sensor Size(Φmm)	7.2(1/2.5")
F/#	4.2
MTF30(lp/mm)	>200
DOF(mm)	±68.7@F11
Distortion(% max)	<0.1
Telecentricity(° max)	<0.1
I/O(mm)	428±3
Length(mm)	202.5
Mount	C
Weight(kg)	1.7

Field of View (mmxmm)	
1/3" AR130/RJ33 (4.8x3.6)	60.0x45.0
1/2.5" 9P001/31 (5.7x4.28)	71.3x53.5

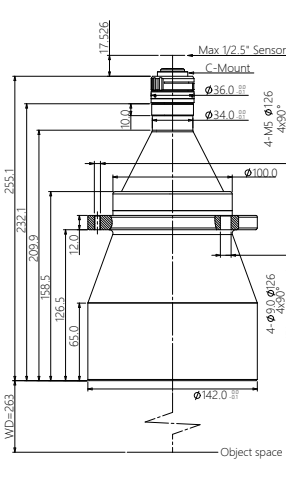
DTCM125-100-AL



FOV(Φmm)	100
Mag.(x)	0.072
WD(mm)	258±4
Max Sensor Size(Φmm)	7.2(1/2.5")
F/#	4.2
MTF30(lp/mm)	>210
DOF(mm)	±84.8@F11
Distortion(% max)	<0.1
Telecentricity(° max)	<0.1
I/O(mm)	501±4
Length(mm)	225.9
Mount	C
Weight(kg)	3.1

Field of View (mmxmm)	
1/3" AR130/RJ33 (4.8x3.6)	66.7x50.0
1/2.5" 9P001/31 (5.7x4.28)	79.2x59.4

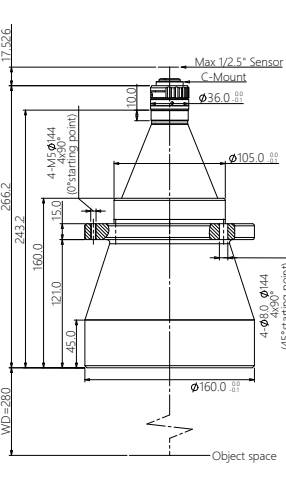
DTCM125-110-AL



FOV(Φmm)	110
Mag.(x)	0.066
WD(mm)	263±4
Max Sensor Size(Φmm)	7.2(1/2.5")
F/#	4.2
MTF30(lp/mm)	>210
DOF(mm)	±101@F11
Distortion(% max)	<0.1
Telecentricity(° max)	<0.1
I/O(mm)	536±4
Length(mm)	255.1
Mount	C
Weight(kg)	2.7

Field of View (mmxmm)	
1/3" AR130/RJ33 (4.8x3.6)	72.7x54.5
1/2.5" 9P001/31 (5.7x4.28)	86.4x64.8

DTCM125-120-AL



FOV(Φmm)	120
Mag.(x)	0.060
WD(mm)	280±5
Max Sensor Size(Φmm)	7.2(1/2.5")
F/#	4.2
MTF30(lp/mm)	>210
DOF(mm)	±122@F11
Distortion(% max)	<0.1
Telecentricity(° max)	<0.1
I/O(mm)	564±5
Length(mm)	266.2
Mount	C
Weight(kg)	4.2

Field of View (mmxmm)	
1/3" AR130/RJ33 (4.8x3.6)	80.0x60.0
1/2.5" 9P001/31 (5.7x4.28)	95.0x71.3

DTCM Series
Magnification Crosstab

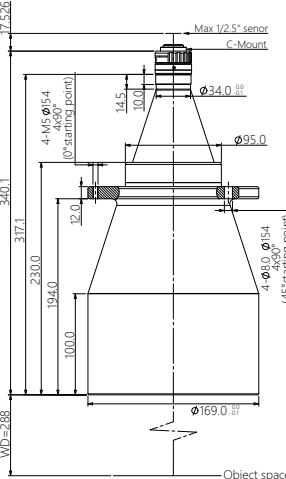
DTCM125 Series

DTCM120 Series

DTCM118 Series

DTCM230 Series

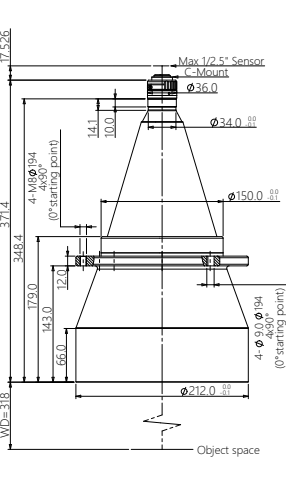
DTCM125-136-AL



FOV(Φmm)	136
Mag.(x)	0.053
WD(mm)	288±5
Max Sensor Size(Φmm)	7.2(1/2.5")
F/#	4.2
MTF30(lp/mm)	>210
DOF(mm)	±157@F11
Distortion(% max)	<0.1
Telecentricity(° max)	<0.1
I/O(mm)	646±5
Length(mm)	340.1
Mount	C
Weight(kg)	-

Field of View (mmxmm)	
1/3" AR130/RJ33 (4.8x3.6)	90.6x67.9
1/2.5" 9P001/31 (5.7x4.28)	107.5x80.8

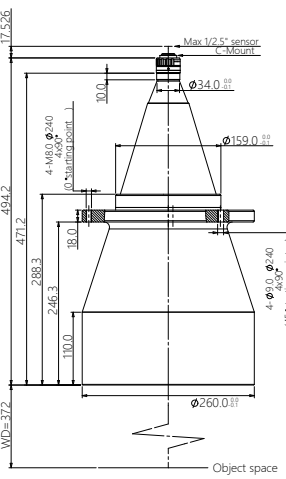
DTCM125-170-AL



FOV(Φmm)	170
Mag.(x)	0.042
WD(mm)	318±5
Max Sensor Size(Φmm)	7.2(1/2.5")
F/#	4.2
MTF30(lp/mm)	>210
DOF(mm)	±249@F11
Distortion(% max)	<0.1
Telecentricity(° max)	<0.1
I/O(mm)	707±5
Length(mm)	371.4
Mount	C
Weight(kg)	6.5

Field of View (mmxmm)	
1/3" AR130/RJ33 (4.8x3.6)	114.3x85.7
1/2.5" 9P001/31 (5.7x4.28)	135.7x101.9

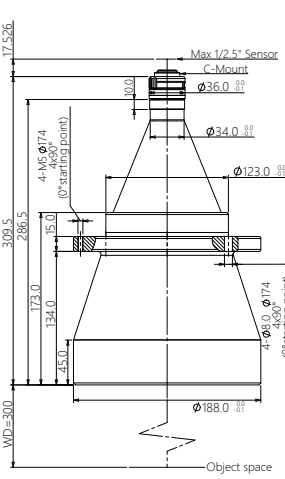
DTCM125-216-AL



FOV(Φmm)	216
Mag.(x)	0.033
WD(mm)	372±5
Max Sensor Size(Φmm)	7.2(1/2.5")
F/#	4.2
MTF30(lp/mm)	>210
DOF(mm)	±404@F11
Distortion(% max)	<0.1
Telecentricity(° max)	<0.1
I/O(mm)	884±5
Length(mm)	494.2
Mount	C
Weight(kg)	13.7

Field of View (mmxmm)	
1/3" AR130/RJ33 (4.8x3.6)	145.5x109.1
1/2.5" 9P001/31 (5.7x4.28)	172.7x129.7

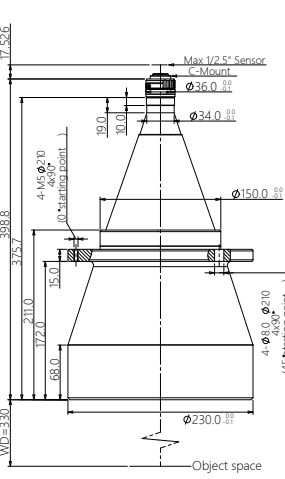
DTCM125-150-AL



FOV(Φmm)	150
Mag.(x)	0.048
WD(mm)	300±5
Max Sensor Size(Φmm)	7.2(1/2.5")
F/#	4.2
MTF30(lp/mm)	>210
DOF(mm)	±190@F11
Distortion(% max)	<0.1
Telecentricity(° max)	<0.1
I/O(mm)	627±5
Length(mm)	309.5
Mount	C
Weight(kg)	5.7

Field of View (mmxmm)	
1/3" AR130/RJ33 (4.8x3.6)	100.0x75.0
1/2.5" 9P001/31 (5.7x4.28)	118.8x89.2

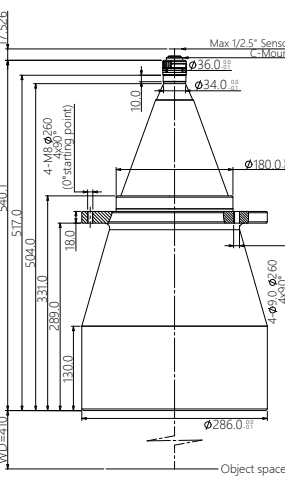
DTCM125-190-AL



FOV(Φmm)	190
Mag.(x)	0.038
WD(mm)	330±5
Max Sensor Size(Φmm)	7.2(1/2.5")
F/#	4.2
MTF30(lp/mm)	>205
DOF(mm)	±304@F11
Distortion(% max)	<0.1
Telecentricity(° max)	<0.1
I/O(mm)	746±5
Length(mm)	398.8
Mount	C
Weight(kg)	11.0

Field of View (mmxmm)	
1/3" AR130/RJ33 (4.8x3.6)	126.3x94.7
1/2.5" 9P001/31 (5.7x4.28)	150.0x112.6

DTCM125-240H-AL



FOV(Φmm)	240
Mag.(x)	0.030
WD(mm)	410±6
Max Sensor Size(Φmm)	7.2(1/2.5")
F/#	4.2
MTF30(lp/mm)	>210
DOF(mm)	±489@F11
Distortion(% max)	<0.1
Telecentricity(° max)	<0.1
I/O(mm)	968±6
Length(mm)	540.1
Mount	C
Weight(kg)	19.3

Field of View (mmxmm)	
1/3" AR130/RJ33 (4.8x3.6)	160.0x120.0
1/2.5" 9P001/31 (5.7x4.28)	190.0x142.7

DTCA Series
Bi-Telecentric Lens
with Iris and Coaxial Light

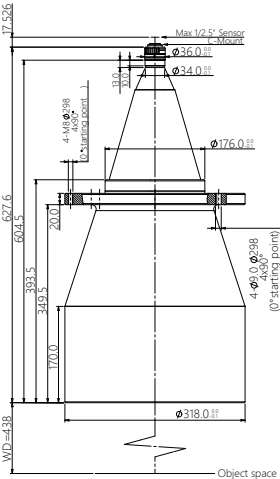
WWK Series
Telecentric Lens for
AOI Inspection

DTCM Series
Bi-Telecentric Lens

WWH Series
Megapixel Object Side
Telecentric Lens

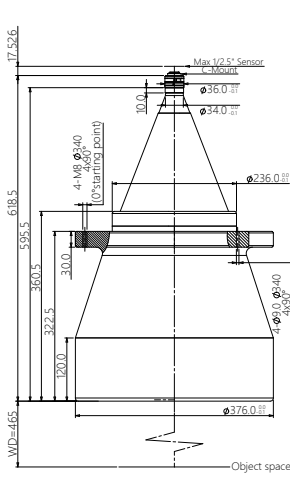
WWL Series
Standard Fixed
Magnification Lens

DTCM125-268-AL



FOV(Φmm)	268
Mag.(x)	0.027
WD(mm)	438±6
Max Sensor Size(Φmm)	7.2(1/2.5")
F/#	4.2
MTF30(lp/mm)	>210
DOF(mm)	±604@F11
Distortion(% max)	<0.1
Telecentricity(" max)	<0.1
I/O(mm)	1083±6
Length(mm)	627.6
Mount	C
Weight(kg)	-
Field of View (mmxmm)	
1/3" AR130/RJ33 (4.8x3.6)	177.8x133.3
1/2.5" 9P001/31 (5.7x4.28)	211.1x158.5

DTCM125-300-AL



FOV(Φmm)	300
Mag.(x)	0.024
WD(mm)	465±6
Max Sensor Size(Φmm)	7.2(1/2.5")
F/#	4.2
MTF30(lp/mm)	>205
DOF(mm)	±763@F11
Distortion(% max)	<0.1
Telecentricity(" max)	<0.1
I/O(mm)	1101±6
Length(mm)	618.5
Mount	C
Weight(kg)	46.5
Field of View (mmxmm)	
1/3" AR130/RJ33 (4.8x3.6)	200.0x150.0
1/2.5" 9P001/31 (5.7x4.28)	237.5x178.3

New Product

360° Micro-polyview imaging device

Model: DTCMP Series

Special description

This device should compatible with object-side telecentric lens. It comes with an illumination system, user can select suitable lens according to different objects.

Key advantages

All the views of a stereo part can be imaged simultaneously,it will greatly improve efficiency and reduce equipment costs.

Apply to

- 1-10mm small parts lateral inspection.
- All the views have the same magnification.
- All the views of a stereo part can be imaged simultaneously,it will greatly improve efficiency and reduce equipment costs.
- Perfectly compatible with all the industrial cameras in the current market.

Product pictures



Model		DTCMP-V1-120	DTCMP-V1-230
Support sensor		1/2"	2/3"
Maximum inspection height (mm)	Screw thread M1.0	1.5	1.5
	Screw thread M1.2	1.75	1.75
	Screw thread M1.7	1.8	1.8
	Screw thread M2.0	2.4	2.4
	Screw thread M2.5	2.7	2.7
	Screw thread MΦ3	4	4
	Screw thread MΦ4	4.9	4.9
	Screw thread MΦ5	5	5
	Screw thread MΦ6	6	6
	Screw thread MΦ8	5	5
Optical Specifications	Screw thread MΦ10	4.5	4.5
	Wavelength range (nm)	400~680	400~680
	WD(mm)	1.5..5	1.5..5
	MTF30	>200lp/mm	>135lp/mm
Mechanical Specifications	F/#	4.2	6.5
	Diameter(mm)	123	123
	Length(mm)	256	256
Electrical Specifications	Mount	C	C
	Illumination voltage (V,DC)	24	24
	Illumination power (W))	18	18

DTCM120 Series

Support 1/2"

Cameras



Lens Model	FOV (Φmm)	Mag. β(x)	WD (mm)	Sensor Size (Φmm)	F/#	MTF30 (lp/mm)	DOF (mm)	Distortion (% max)	Telecentricity (" max)	I/O (mm)	Length (mm)	Mount	Weight (kg)
DTCM120-26-AL	26	0.308	73±1	8.0(1/2")	4.2	>175	±4.6@F11	<0.1	<0.1	198±1	107.2	C	0.3
DTCM120-36-AL	36	0.222	110±2	8.0(1/2")	4.2	>190	±8.9@F11	<0.1	<0.1	255±2	127.2	C	0.4
DTCM120-42-AL	42	0.190	118±3	8.0(1/2")	4.2	>210	±12.1@F11	<0.1	<0.1	248±3	112.7	C	0.4
DTCM120-48-AL	48	0.167	128±3	8.0(1/2")	4.2	>200	±15.7@F11	<0.1	<0.1	272±3	126.2	C	0.4
DTCM120-56-AL	56	0.143	138±3	8.0(1/2")	4.2	>210	±21.5@F11	<0.1	<0.1	304±3	148.7	C	0.6
DTCM120-64H-AL	64	0.125	158±3	8.0(1/2")	4.2	>220	±28.2@F11	<0.1	<0.1	337±3	161.2	C	0.8
DTCM120-72-AL	72	0.111	178±3	8.0(1/2")	4.2	>215	±35.7@F11	<0.1	<0.1	377±3	181.2	C	1.0
DTCM120-80H-AL	80	0.100	228±4	8.0(1/2")	4.2	>210	±44@F11	<0.1	<0.1	417±4	171.2	C	1.8
DTCM120-90-AL	90	0.089	208±3	8.0(1/2")	4.2	>210	±55.5@F11	<0.1	<0.1	432±3	206.2	C	1.6
DTCM120-100-AL	100	0.080	258±4	8.0(1/2")	4.2	>210	±68.7@F11	<0.1	<0.1	505±4	229.6	C	3.0
DTCM120-110-AL	110	0.073	263±4	8.0(1/2")	4.2	>210	±82.6@F11	<0.1	<0.1	539±4	258.8	C	2.6
DTCM120-120-AL	120	0.067	280±5	8.0(1/2")	4.2	>210	±98@F11	<0.1	<0.1	569±5	271.1	C	4.1
DTCM120-136-AL	136	0.059	288±5	8.0(1/2")	4.2	>215	±126@F11	<0.1	<0.1	649±5	343.8	C	-
DTCM120-150-AL	150	0.053	300±5	8.0(1/2")	4.2	>210	±156@F11	<0.1	<0.1	631±5	313.2	C	5.6
DTCM120-170-AL	170	0.047	318±5	8.0(1/2")	4.2	>210	±199@F11	<0.1	<0.1	711±5	375.1	C	6.4
DTCM120-190-AL	190	0.042	330±5	8.0(1/2")	4.2	>210	±249@F11	<0.1	<0.1	750±5	402.5	C	11.0
DTCM120-216-AL	216	0.037	372±5	8.0(1/2")	4.2	>210	±321@F11	<0.1	<0.1	887±5	497.9	C	13.7
DTCM120-240H-AL	240	0.033	410±6	8.0(1/2")	4.2	>210	±397@F11	<0.1	<0.1	971±6	543.8	C	19.2
DTCM120-268-AL	268	0.030	438±6	8.0(1/2")	4.2	>210	±489@F11	<0.1	<0.1	1087±6	631.3	C	-
DTCM120-300-AL	300	0.027	465±6	8.0(1/2")	4.2	>205	±603@F11	<0.1	<0.1	1105±6	622.2	C	46.5

DTCM Series
Magnification Crosstab

DTCM125 Series

DTCM120 Series

DTCM118 Series

DTCM230 Series

DTCA Series
Bi-Telecentric Lens
with Iris and Coaxial Light

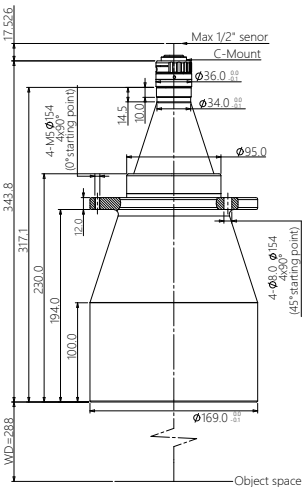
WWK Series
Telecentric Lens for
AOI Inspection

DTCM Series
Bi-Telecentric Lens

WWH Series
Megapixel Object Side
Telecentric Lens

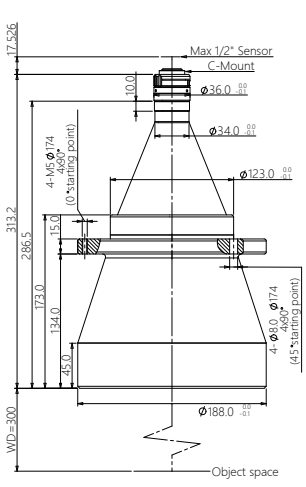
WWL Series
Standard Fixed
Magnification Lens

DTCM120-136-AL



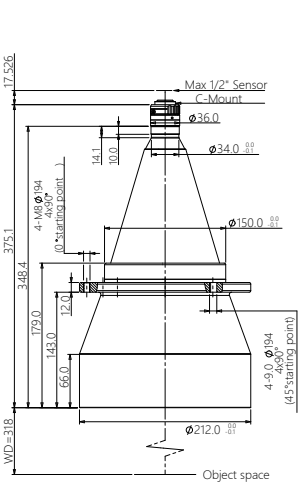
FOV(Φmm)	136
Mag.(x)	0.059
WD(mm)	288±5
Max Sensor Size(Φmm)	8.0(1/2")
F/#	4.2
MTF30(lp/mm)	>215
DOF(mm)	±126@F11
Distortion(% max)	<0.1
Telecentricity(° max)	<0.1
I/O(mm)	649±5
Length(mm)	343.8
Mount	C
Weight(kg)	-
Field of View (mmxmm)	
1/2.5" 9P001/31 (5.7x4.28)	96.6x72.5
1/2.3" 9J003 (6.44x4.62)	109.2x78.3

DTCM120-150-AL



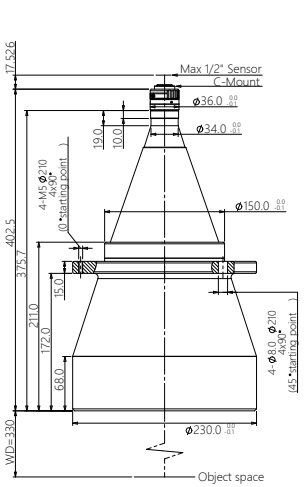
FOV(Φmm)	150
Mag.(x)	0.053
WD(mm)	300±5
Max Sensor Size(Φmm)	8.0(1/2")
F/#	4.2
MTF30(lp/mm)	>210
DOF(mm)	±156@F11
Distortion(% max)	<0.1
Telecentricity(° max)	<0.1
I/O(mm)	631±5
Length(mm)	313.2
Mount	C
Weight(kg)	5.6
Field of View (mmxmm)	
1/2.5" 9P001/31 (5.7x4.28)	107.5x80.8
1/2.3" 9J003 (6.44x4.62)	121.5x87.2

DTCM120-170-AL



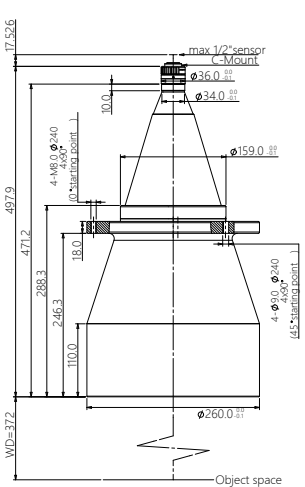
FOV(Φmm)	170
Mag.(x)	0.047
WD(mm)	318±5
Max Sensor Size(Φmm)	8.0(1/2")
F/#	4.2
MTF30(lp/mm)	>210
DOF(mm)	±199@F11
Distortion(% max)	<0.1
Telecentricity(° max)	<0.1
I/O(mm)	711±5
Length(mm)	375.1
Mount	C
Weight(kg)	6.4
Field of View (mmxmm)	
1/2.5" 9P001/31 (5.7x4.28)	121.3x91.1
1/2.3" 9J003 (6.44x4.62)	137.0x98.3

DTCM120-190-AL



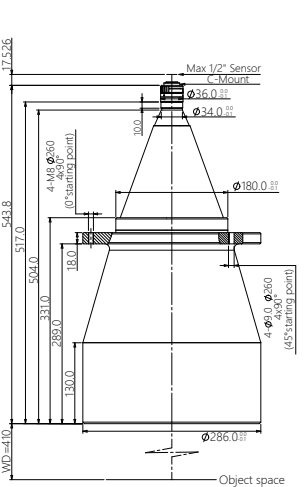
FOV(Φmm)	190
Mag.(x)	0.042
WD(mm)	330±5
Max Sensor Size(Φmm)	8.0(1/2")
F/#	4.2
MTF30(lp/mm)	>210
DOF(mm)	±249@F11
Distortion(% max)	<0.1
Telecentricity(° max)	<0.1
I/O(mm)	750±5
Length(mm)	402.5
Mount	C
Weight(kg)	11.0
Field of View (mmxmm)	
1/2.5" 9P001/31 (5.7x4.28)	135.7x101.9
1/2.3" 9J003 (6.44x4.62)	153.3x110.0

DTCM120-216-AL



FOV(Φmm)	216
Mag.(x)	0.037
WD(mm)	372±5
Max Sensor Size(Φmm)	8.0(1/2")
F/#	4.2
MTF30(lp/mm)	>210
DOF(mm)	±321@F11
Distortion(% max)	<0.1
Telecentricity(° max)	<0.1
I/O(mm)	887±5
Length(mm)	497.9
Mount	C
Weight(kg)	13.7
Field of View (mmxmm)	
1/2.5" 9P001/31 (5.7x4.28)	154.1x115.7
1/2.3" 9J003 (6.44x4.62)	174.1x124.9

DTCM120-240H-AL



FOV(Φmm)	240
Mag.(x)	0.033
WD(mm)	410±6
Max Sensor Size(Φmm)	8.0(1/2")
F/#	4.2
MTF30(lp/mm)	>210
DOF(mm)	±397@F11
Distortion(% max)	<0.1
Telecentricity(° max)	<0.1
I/O(mm)	971±6
Length(mm)	543.8
Mount	C
Weight(kg)	19.2
Field of View (mmxmm)	
1/2.5" 9P001/31 (5.7x4.28)	172.7x129.7
1/2.3" 9J003 (6.44x4.62)	195.2x140.0

DTCM Series
Magnification Crosstab

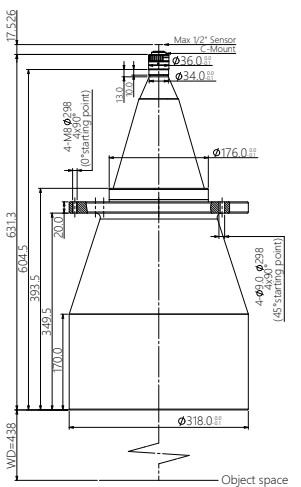
DTCM125 Series

DTCM120 Series

DTCM118 Series

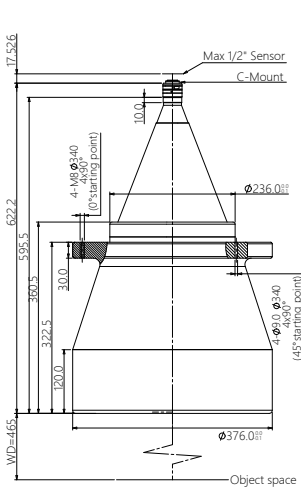
DTCM230 Series

DTCM120-268-AL



FOV(Φmm)	268
Mag.(x)	0.030
WD(mm)	438±6
Max Sensor Size(Φmm)	8.0(1/2")
F/#	4.2
MTF30(lp/mm)	>210
DOF(mm)	±489@F11
Distortion(% max)	<0.1
Telecentricity(° max)	<0.1
I/O(mm)	1087±6
Length(mm)	631.3
Mount	C
Weight(kg)	-
Field of View (mmxmm)	
1/2.5" 9P001/31 (5.7x4.28)	190.0x142.7
1/2.3" 9J003 (6.44x4.62)	214.7x154.0

DTCM120-300-AL



FOV(Φmm)	300
Mag.(x)	0.027
WD(mm)	465±6
Max Sensor Size(Φmm)	8.0(1/2")
F/#	4.2
MTF30(lp/mm)	>205
DOF(mm)	±603@F11
Distortion(% max)	<0.1
Telecentricity(° max)	<0.1
I/O(mm)	1105±6
Length(mm)	622.2
Mount	C
Weight(kg)	46.5
Field of View (mmxmm)	
1/2.5" 9P001/31 (5.7x4.28)	211.1x158.5
1/2.3" 9J003 (6.44x4.62)	238.5x171.1

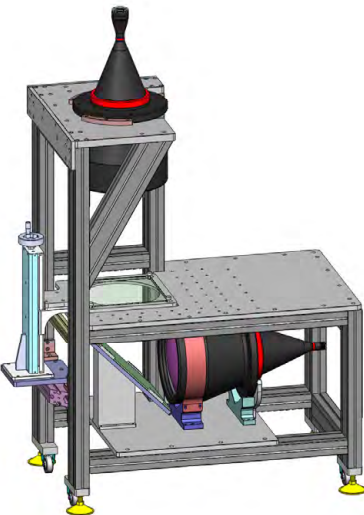
Compatible related products

Vertical mounting bracket, horizontal mounting bracket

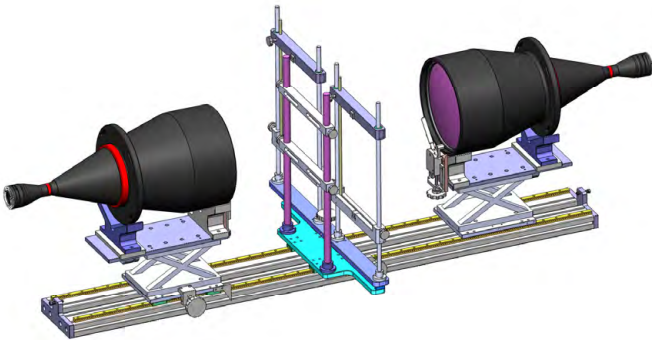
Special explanation

For large FOV telecentric lens, the volume and weight are usually large, it is necessary to ensure the installation is steady, VICO can offer kinds of mounting brackets and clamps.

Product pictures



Vertical mounting bracket



horizontal mounting bracket

DTCM118 Series

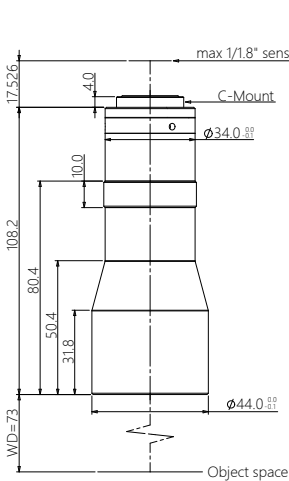
Support 1/1.8"

Cameras



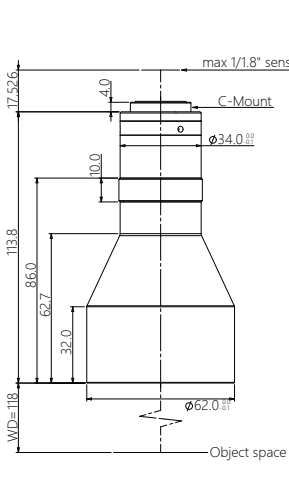
Lens Model	FOV (Φmm)	Mag. β(x)	WD (mm)	Sensor Size (Φmm)	F/#	MTF30 (lp/mm)	DOF (mm)	Distortion (% max)	Telecentricity (° max)	I/O (mm)	Length (mm)	Mount	Weight (kg)
DTCM118-26	26	0.346	73±1	9.0(1/1.8")	4.6	>170	±3.7@F11	<0.1	<0.1	199±1	108.2	C	0.3
DTCM118-36	36	0.250	110±2	9.0(1/1.8")	4.6	>180	±7.0@F11	<0.1	<0.1	256±2	128.3	C	0.4
DTCM118-42	42	0.214	118±3	9.0(1/1.8")	4.6	>195	±9.6@F11	<0.1	<0.1	249±3	113.8	C	0.4
DTCM118-48	48	0.188	128±3	9.0(1/1.8")	4.6	>190	±12.4@F11	<0.1	<0.1	273±3	127.3	C	0.4
DTCM118-56-AL	56	0.161	138±3	9.0(1/1.8")	4.6	>190	±17.0@F11	<0.1	<0.1	306±3	149.9	C	0.7
DTCM118-64H-AL	64	0.141	158±3	9.0(1/1.8")	4.6	>195	±22.3@F11	<0.1	<0.1	338±3	162.4	C	0.8
DTCM118-72-AL	72	0.125	178±3	9.0(1/1.8")	4.6	>195	±28.1@F11	<0.1	<0.1	378±3	182.4	C	1.0
DTCM118-80H-AL	80	0.113	228±4	9.0(1/1.8")	4.6	>195	±34.8@F11	<0.1	<0.1	418±4	172.4	C	1.9
DTCM118-90-AL	90	0.100	208±3	9.0(1/1.8")	4.6	>195	±44@F11	<0.1	<0.1	433±3	207.4	C	1.7
DTCM118-100-AL	100	0.090	258±4	9.0(1/1.8")	4.6	>190	±54.3@F11	<0.1	<0.1	506±4	230.8	C	3.0
DTCM118-110-AL	110	0.082	263±4	9.0(1/1.8")	4.6	>200	±65.4@F11	<0.1	<0.1	541±4	260.0	C	2.7
DTCM118-120-AL	120	0.075	280±5	9.0(1/1.8")	4.6	>190	±78.2@F11	<0.1	<0.1	569±5	271.1	C	4.2
DTCM118-136-AL	136	0.066	288±5	9.0(1/1.8")	4.6	>200	±101@F11	<0.1	<0.1	651±5	345	C	-
DTCM118-150-AL	150	0.060	300±5	9.0(1/1.8")	4.6	>195	±122@F11	<0.1	<0.1	632±5	314.4	C	5.7
DTCM118-170-AL	170	0.053	318±5	9.0(1/1.8")	4.6	>200	±157@F11	<0.1	<0.1	712±5	376.3	C	6.5
DTCM118-190-AL	190	0.047	330±5	9.0(1/1.8")	4.6	>195	±199@F11	<0.1	<0.1	751±5	403.6	C	11.0
DTCM118-216-AL	216	0.042	372±5	9.0(1/1.8")	4.6	>200	±249@F11	<0.1	<0.1	889±5	499.1	C	13.7
DTCM118-240H-AL	240	0.038	410±6	9.0(1/1.8")	4.6	>200	±313@F11	<0.1	<0.1	972±6	544.9	C	19.3
DTCM118-268-AL	268	0.034	438±6	9.0(1/1.8")	4.6	>200	±381@F11	<0.1	<0.1	1088±6	632.4	C	-
DTCM118-300-AL	300	0.030	465±6	9.0(1/1.8")	4.6	>190	±488@F11	<0.1	<0.1	1106±6	623.4	C	46.5

DTCM118-26



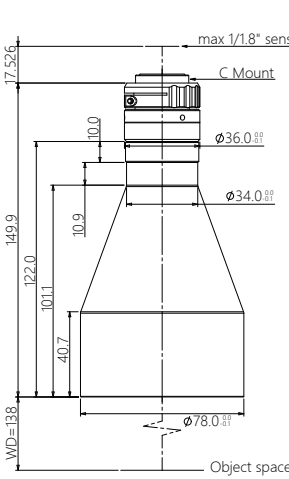
FOV(Φmm)	26
Mag.(x)	0.346
WD(mm)	73±1
Max Sensor Size(Φmm)	9.0(1/1.8")
F/#	4.6
MTF30(lp/mm)	>170
DOF(mm)	±3.7@F11
Distortion(% max)	<0.1
Telecentricity(° max)	<0.1
I/O(mm)	199±1
Length(mm)	108.2
Mount	C
Weight(kg)	0.3
Field of View (mmxmm)	
1/1.8" IMX178 (7.43x4.9)	21.5x14.2
1/1.8" IMX252/265 (7.1x5.3)	20.5x15.3

DTCM118-42



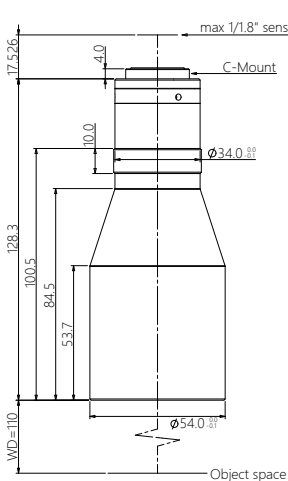
FOV(Φmm)	42
Mag.(x)	0.214
WD(mm)	118±3
Max Sensor Size(Φmm)	9.0(1/1.8")
F/#	4.6
MTF30(lp/mm)	>195
DOF(mm)	±9.6@F11
Distortion(% max)	<0.1
Telecentricity(° max)	<0.1
I/O(mm)	249±3
Length(mm)	113.8
Mount	C
Weight(kg)	0.4
Field of View (mmxmm)	
1/1.8" IMX178 (7.43x4.9)	34.7x22.9
1/1.8" IMX252/265 (7.1x5.3)	33.2x24.8

DTCM118-56-AL



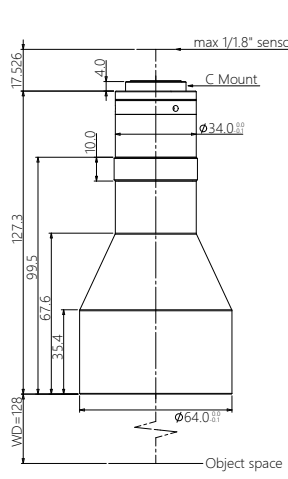
FOV(Φmm)	56
Mag.(x)	0.161
WD(mm)	138±3
Max Sensor Size(Φmm)	9.0(1/1.8")
F/#	4.6
MTF30(lp/mm)	>190
DOF(mm)	±17.0@F11
Distortion(% max)	<0.1
Telecentricity(° max)	<0.1
I/O(mm)	306±3
Length(mm)	149.9
Mount	C
Weight(kg)	0.7
Field of View (mmxmm)	
1/1.8" IMX178 (7.43x4.9)	46.1x30.4
1/1.8" IMX252/265 (7.1x5.3)	44.1x32.9

DTCM118-36



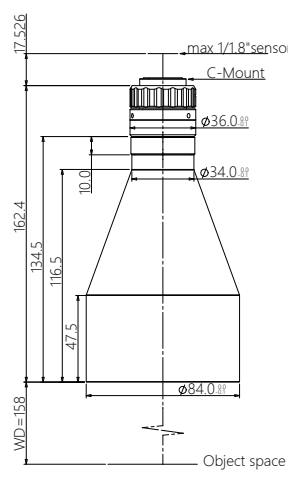
FOV(Φmm)	36
Mag.(x)	0.250
WD(mm)	110±2
Max Sensor Size(Φmm)	9.0(1/1.8")
F/#	4.6
MTF30(lp/mm)	>180
DOF(mm)	±7.0@F11
Distortion(% max)	<0.1
Telecentricity(° max)	<0.1
I/O(mm)	256±2
Length(mm)	128.3
Mount	C
Weight(kg)	0.4
Field of View (mmxmm)	
1/1.8" IMX178 (7.43x4.9)	29.7x19.6
1/1.8" IMX252/265 (7.1x5.3)	28.4x21.2

DTCM118-48



FOV(Φmm)	48
Mag.(x)	0.188
WD(mm)	128±3
Max Sensor Size(Φmm)	9.0(1/1.8")
F/#	4.6
MTF30(lp/mm)	>190
DOF(mm)	±12.4@F11
Distortion(% max)	<0.1
Telecentricity(° max)	<0.1
I/O(mm)	273±3
Length(mm)	127.3
Mount	C
Weight(kg)	0.4
Field of View (mmxmm)	
1/1.8" IMX178 (7.43x4.9)	39.5x26.1
1/1.8" IMX252/265 (7.1x5.3)	37.8x28.2

DTCM118-64H-AL



FOV(Φmm)	64
Mag.(x)	0.141
WD(mm)	158±3
Max Sensor Size(Φmm)	9.0(1/1.8")
F/#	4.6
MTF30(lp/mm)	>195
DOF(mm)	±22.3@F11
Distortion(% max)	<0.1
Telecentricity(° max)	<0.1
I/O(mm)	338±3
Length(mm)	162.4
Mount	C
Weight(kg)	0.8
Field of View (mmxmm)	
1/1.8" IMX178 (7.43x4.9)	52.7x34.8
1/1.8" IMX252/265 (7.1x5.3)	50.4x37.6

DTCA Series
Bi-Telecentric Lens
with Iris and Coaxial Light

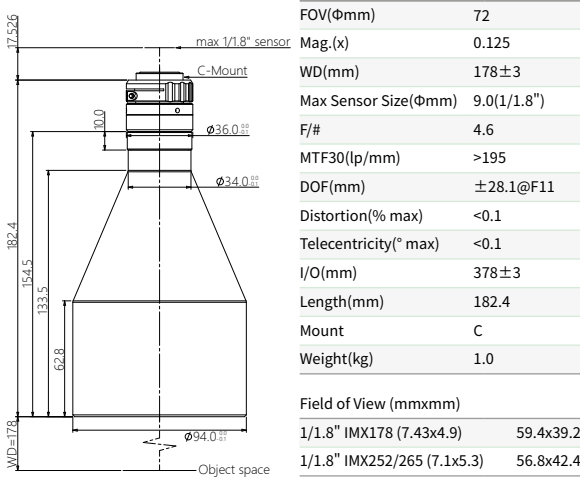
WWK Series
Telecentric Lens for
AOI Inspection

DTCM Series
Bi-Telecentric Lens

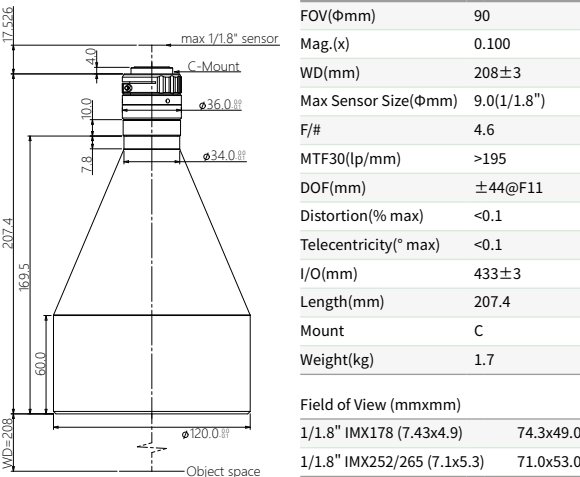
WWH Series
Megapixel Object Side
Telecentric Lens

WWL Series
Standard Fixed
Magnification Lens

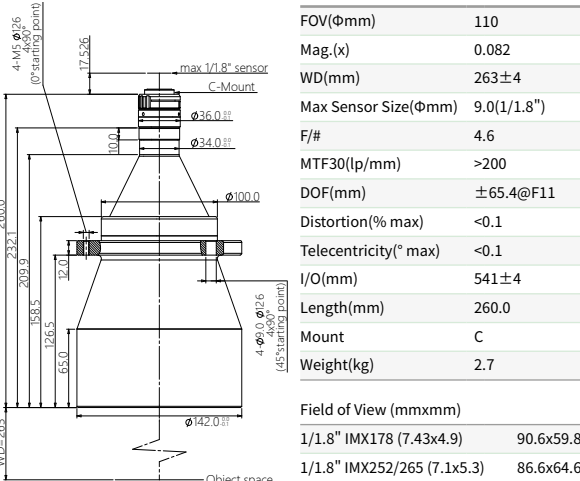
DTCM118-72-AL



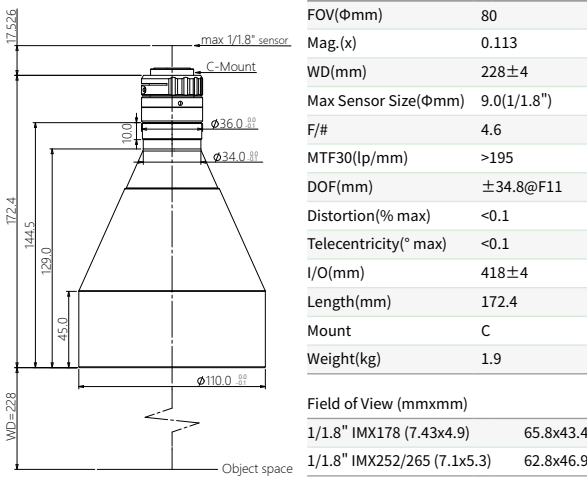
DTCM118-90-AL



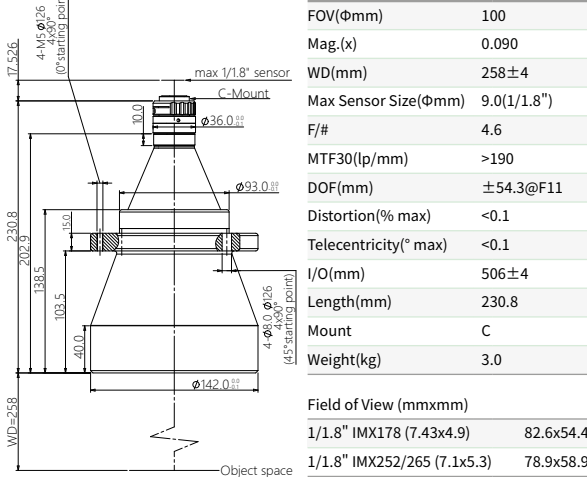
DTCM118-110-AL



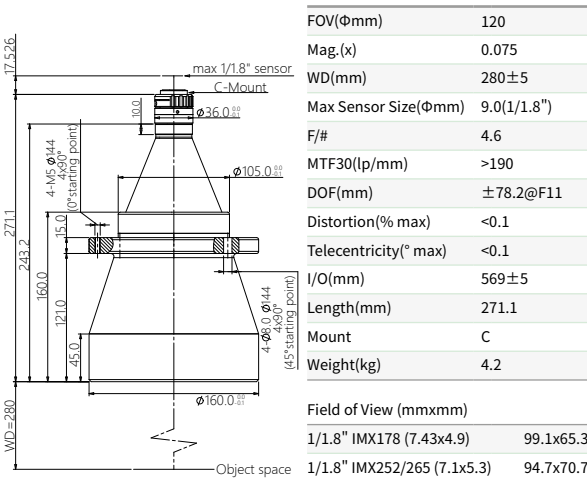
DTCM118-80H-AL



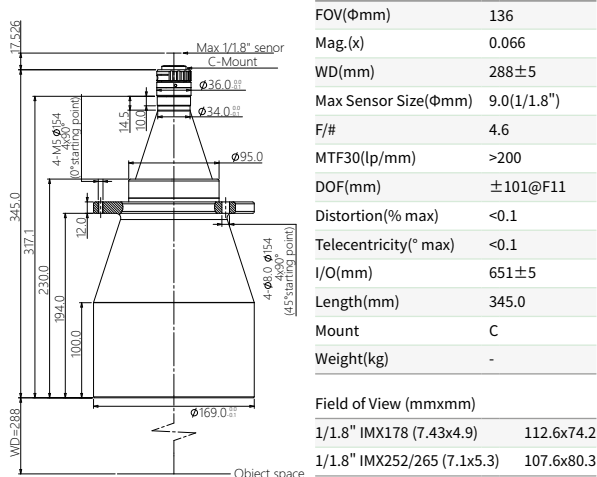
DTCM118-100-AL



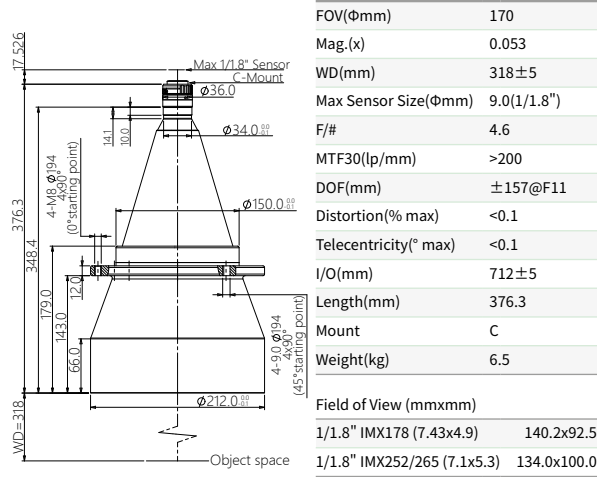
DTCM118-120-AL



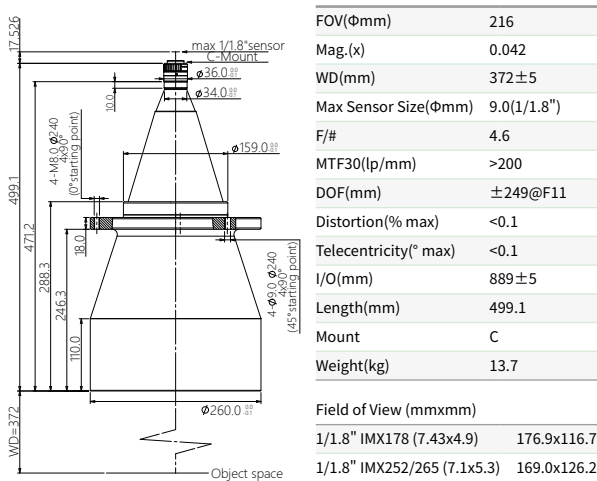
DTCM118-136-AL



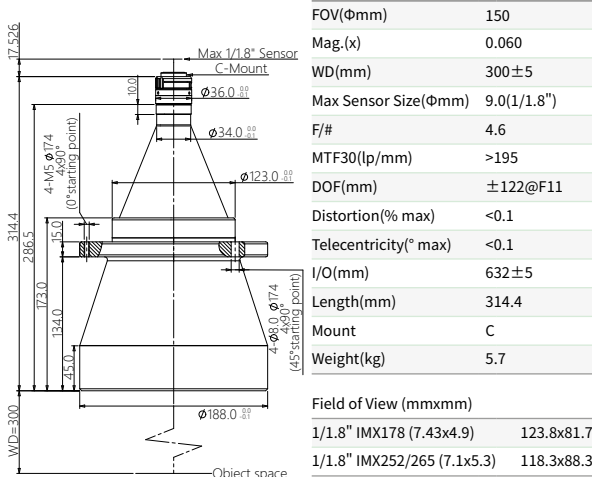
DTCM118-170-AL



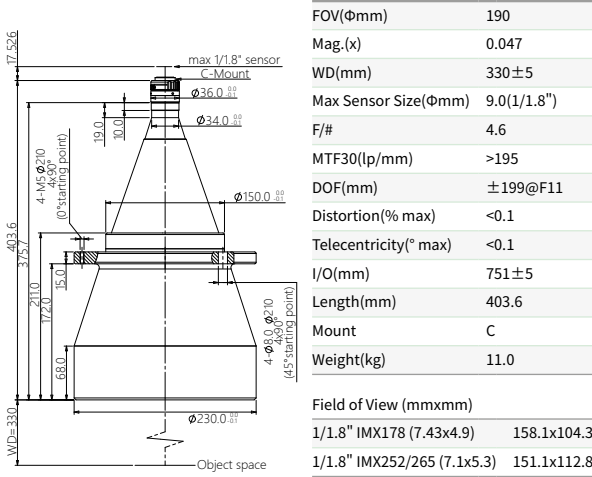
DTCM118-216-AL



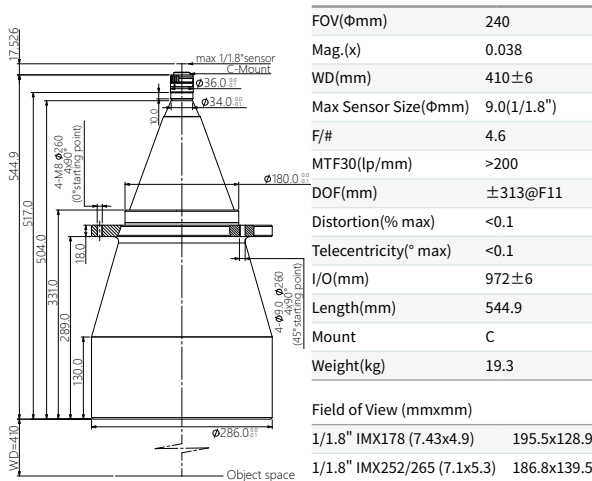
DTCM118-150-AL



DTCM118-190-AL



DTCM118-240H-AL



DTCM Series
Magnification Crosstab

DTCM125 Series

DTCM120 Series

DTCM118 Series

DTCM230 Series

DTCA Series
Bi-Telecentric Lens
with Iris and Coaxial Light

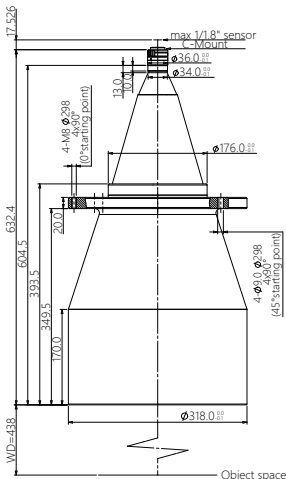
WWK Series
Telecentric Lens for
AOI Inspection

DTCM Series
Bi-Telecentric Lens

WWH Series
Megapixel Object Side
Telecentric Lens

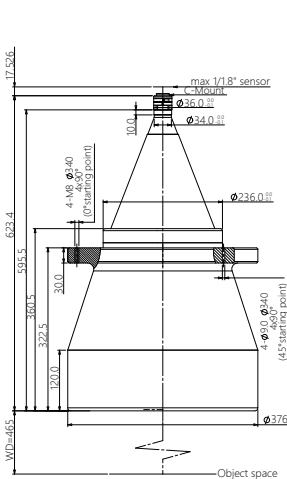
WWL Series
Standard Fixed
Magnification Lens

DTCM118-268-AL



FOV(Φmm)	268
Mag.(x)	0.034
WD(mm)	438±6
Max Sensor Size(Φmm)	9.0(1/1.8")
F/#	4.6
MTF30(lp/mm)	>200
DOF(mm)	±381@F11
Distortion(% max)	<0.1
Telecentricity(" max)	<0.1
I/O(mm)	1088±6
Length(mm)	632.4
Mount	C
Weight(kg)	-
Field of View (mmxmm)	
1/1.8" IMX178 (7.43x4.9)	218.5x144.1
1/1.8" IMX252/265 (7.1x5.3)	208.8x155.9

DTCM118-300-AL



FOV(Φmm)	300
Mag.(x)	0.030
WD(mm)	465±6
Max Sensor Size(Φmm)	9.0(1/1.8")
F/#	4.6
MTF30(lp/mm)	>190
DOF(mm)	±488@F11
Distortion(% max)	<0.1
Telecentricity(" max)	<0.1
I/O(mm)	1106±6
Length(mm)	623.4
Mount	C
Weight(kg)	46.5
Field of View (mmxmm)	
1/1.8" IMX178 (7.43x4.9)	247.7x163.3
1/1.8" IMX252/265 (7.1x5.3)	236.7x176.7

Peripheral Product

Large area back lights

Model:GPDL

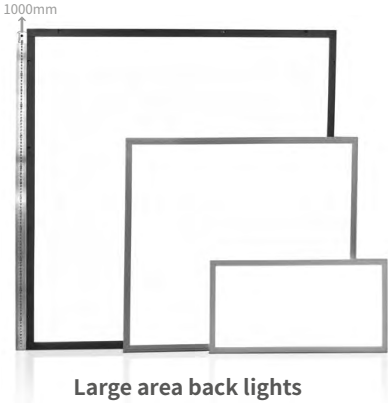
Product Features

Flat diffusing light, large lighting area, bright uniform, the biggest dimension can reach 2400mm x 1800mm,mainly used for back and side illumination.

Key advantage

Double wave length and double color temperature. The illuminance can reach 10 thousand Lux and the uniformity is better than 90%.

Product pictures



DTCM230 Series

Support 2/3"

Cameras



Lens Model	FOV (Φmm)	Mag. β(x)	WD (mm)	Sensor Size (Φmm)	F/#	MTF30 (lp/mm)	DOF (mm)	Distortion (% max)	Telecentricity (" max)	I/O (mm)	Length (mm)	Mount	Weight (kg)
DTCM230-26	26	0.438	73±1	11.4(2/3")	6.0	>130	±2.3@F11	<0.1	<0.1	208±1	117.9	C	0.3
DTCM230-36	36	0.317	110±2	11.4(2/3")	5.4	>145	±4.3@F11	<0.1	<0.1	265±2	137.9	C	0.4
DTCM230-42	42	0.271	118±3	11.4(2/3")	4.9	>185	±6.0@F11	<0.1	<0.1	259±3	123.4	C	0.4
DTCM230-48	48	0.238	128±3	11.4(2/3")	5.4	>165	±7.7@F11	<0.1	<0.1	282±3	136.9	C	0.5
DTCM230-56-AL	56	0.204	138±3	11.4(2/3")	4.9	>180	±10.5@F11	<0.1	<0.1	315±3	159.5	C	0.7
DTCM230-64H-AL	64	0.178	158±3	11.4(2/3")	4.9	>180	±13.9@F11	<0.1	<0.1	348±3	172.0	C	0.8
DTCM230-72-AL	72	0.158	178±3	11.4(2/3")	4.9	>180	±17.6@F11	<0.1	<0.1	388±3	192.0	C	1.0
DTCM230-80H-AL	80	0.142	228±4	11.4(2/3")	4.9	>180	±21.7@F11	<0.1	<0.1	428±4	182.0	C	1.9
DTCM230-90-AL	90	0.127	208±3	11.4(2/3")	4.9	>180	±27.2@F11	<0.1	<0.1	443±3	217.0	C	1.7
DTCM230-100-AL	100	0.114	258±4	11.4(2/3")	5.4	>170	±33.8@F11	<0.1	<0.1	516±4	240.4	C	3.1
DTCM230-110-AL	110	0.104	263±4	11.4(2/3")	4.9	>190	±40.7@F11	<0.1	<0.1	550±4	269.6	C	2.7
DTCM230-120-AL	120	0.095	280±5	11.4(2/3")	4.9	>185	±48.7@F11	<0.1	<0.1	578±5	280.7	C	4.2
DTCM230-136-AL	136	0.084	288±5	11.4(2/3")	4.9	>185	±62.4@F11	<0.1	<0.1	659±5	354.6	C	-
DTCM230-150-AL	150	0.076	300±5	11.4(2/3")	4.9	>185	±76.1@F11	<0.1	<0.1	642±5	324.0	C	5.7
DTCM230-170-AL	170	0.067	318±5	11.4(2/3")	4.9	>180	±98@F11	<0.1	<0.1	721±5	385.9	C	6.5
DTCM230-190-AL	190	0.060	330±5	11.4(2/3")	4.9	>180	±122@F11	<0.1	<0.1	761±5	413.2	C	11.0
DTCM230-216-AL	216	0.053	372±5	11.4(2/3")	4.9	>180	±157@F11	<0.1	<0.1	898±5	508.7	C	13.7
DTCM230-240H-AL	240	0.048	410±6	11.4(2/3")	4.9	>180	±195@F11	<0.1	<0.1	982±6	554.5	C	19.3
DTCM230-268-AL	268	0.043	438±6	11.4(2/3")	4.9	>180	±238@F11	<0.1	<0.1	1097±6	642	C	-
DTCM230-300-AL	300	0.038	465±6	11.4(2/3")	4.9	>180	±304@F11	<0.1	<0.1	1116±6	633.0	C	46.6

DTCM Series
Magnification Crosstab

DTCM125 Series

DTCM120 Series

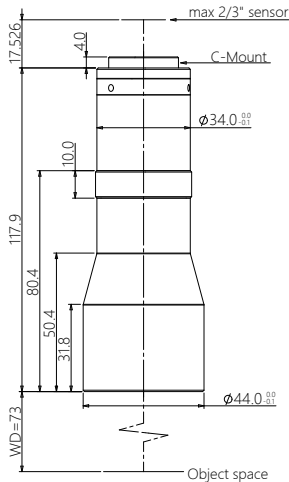
DTCM118 Series

DTCM230 Series

DTCA Series
Bi-Telecentric Lens
with Iris and Coaxial Light

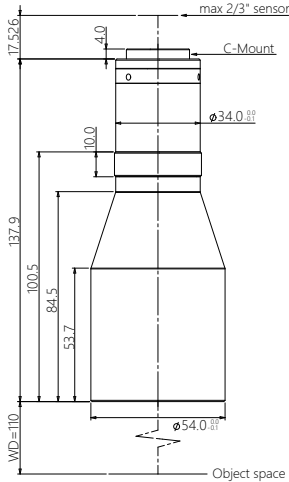
WWK Series
Telecentric Lens for
AOI Inspection

DTCM230-26



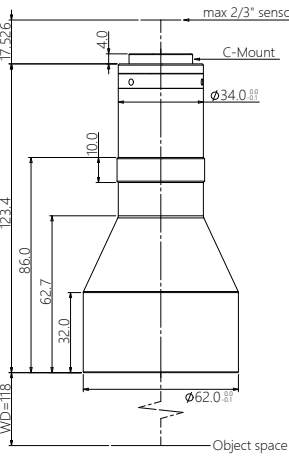
FOV(Φmm)	26
Mag.(x)	0.438
WD(mm)	73±1
Max Sensor Size(Φmm)	11.4(2/3")
F/#	6.0
MTF30(lp/mm)	>130
DOF(mm)	±2.3@F11
Distortion(% max)	<0.1
Telecentricity(" max)	<0.1
I/O(mm)	208±1
Length(mm)	117.9
Mount	C-Mount
Weight(kg)	0.3
Field of View (mmxmm)	
1/1.8" EV76C570 (7.2x5.4)	16.4x12.3
1/1.7" IMX226 (7.5x5.6)	17.1x12.8
2/3" IMX250/264 (8.45x7.1)	19.3x16.2

DTCM230-36



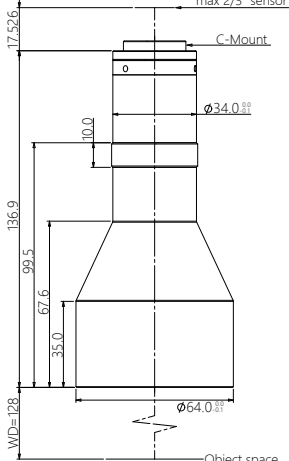
FOV(Φmm)	36
Mag.(x)	0.317
WD(mm)	110±2
Max Sensor Size(Φmm)	11.4(2/3")
F/#	5.4
MTF30(lp/mm)	>145
DOF(mm)	±4.3@F11
Distortion(% max)	<0.1
Telecentricity(" max)	<0.1
I/O(mm)	265±2
Length(mm)	137.9
Mount	C
Weight(kg)	0.4
Field of View (mmxmm)	
1/1.8" EV76C570 (7.2x5.4)	22.7x17.0
1/1.7" IMX226 (7.5x5.6)	23.7x17.7
2/3" IMX250/264 (8.45x7.1)	26.7x22.4

DTCM230-42



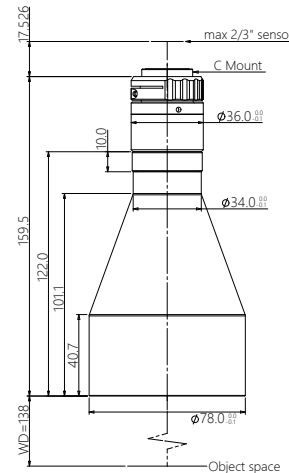
FOV(Φmm)	42
Mag.(x)	0.271
WD(mm)	118±3
Max Sensor Size(Φmm)	11.4(2/3")
F/#	4.9
MTF30(lp/mm)	>185
DOF(mm)	±6.0@F11
Distortion(% max)	<0.1
Telecentricity(" max)	<0.1
I/O(mm)	259±3
Length(mm)	123.4
Mount	C
Weight(kg)	0.4
Field of View (mmxmm)	
1/1.8" EV76C570 (7.2x5.4)	26.6x19.9
1/1.7" IMX226 (7.5x5.6)	27.7x20.7
2/3" IMX250/264 (8.45x7.1)	31.2x26.2

DTCM230-48



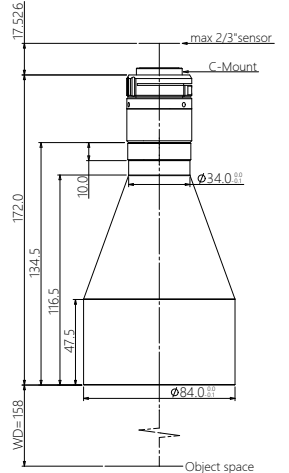
FOV(Φmm)	48
Mag.(x)	0.238
WD(mm)	128±3
Max Sensor Size(Φmm)	11.4(2/3")
F/#	5.4
MTF30(lp/mm)	>165
DOF(mm)	±7.7@F11
Distortion(% max)	<0.1
Telecentricity(" max)	<0.1
I/O(mm)	282±3
Length(mm)	136.9
Mount	C
Weight(kg)	0.5
Field of View (mmxmm)	
1/1.8" EV76C570 (7.2x5.4)	30.3x22.7
1/1.7" IMX226 (7.5x5.6)	31.5x23.5
2/3" IMX250/264 (8.45x7.1)	35.5x29.8

DTCM230-56-AL



FOV(Φmm)	56
Mag.(x)	0.204
WD(mm)	138±3
Max Sensor Size(Φmm)	11.4(2/3")
F/#	4.9
MTF30(lp/mm)	>180
DOF(mm)	±10.5@F11
Distortion(% max)	<0.1
Telecentricity(" max)	<0.1
I/O(mm)	315±3
Length(mm)	159.5
Mount	C
Weight(kg)	0.7
Field of View (mmxmm)	
1/1.8" EV76C570 (7.2x5.4)	35.3x26.5
1/1.7" IMX226 (7.5x5.6)	36.8x27.5
2/3" IMX250/264 (8.45x7.1)	41.4x34.8

DTCM230-64H-AL

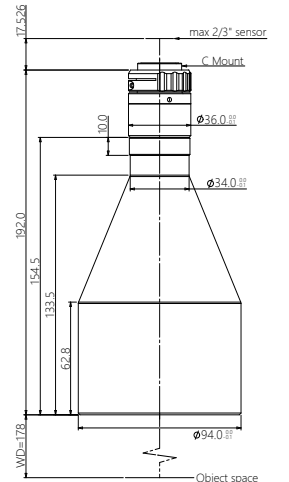


FOV(Φmm)	64
Mag.(x)	0.178
WD(mm)	158±3
Max Sensor Size(Φmm)	11.4(2/3")
F/#	4.9
MTF30(lp/mm)	>180
DOF(mm)	±13.9@F11
Distortion(% max)	<0.1
Telecentricity(" max)	<0.1
I/O(mm)	348±3
Length(mm)	172.0
Mount	C
Weight(kg)	0.8
Field of View (mmxmm)	
1/1.8" EV76C570 (7.2x5.4)	40.4x30.3
1/1.7" IMX226 (7.5x5.6)	42.1x31.5
2/3" IMX250/264 (8.45x7.1)	47.5x39.9

WWH Series
Megapixel Object Side
Telecentric Lens

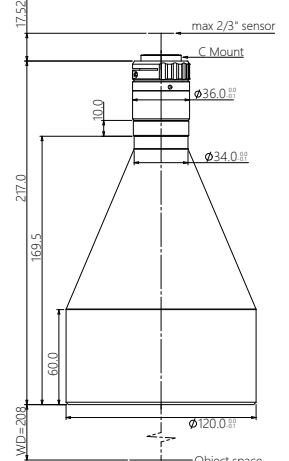
WWL Series
Standard Fixed
Magnification Lens

DTCM230-72-AL



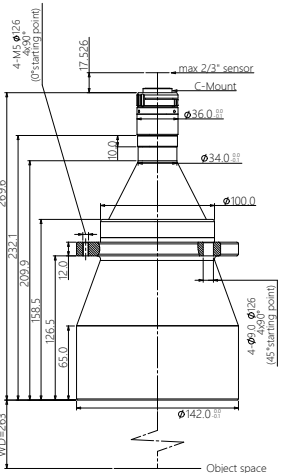
FOV(Φmm)	72
Mag.(x)	0.158
WD(mm)	178±3
Max Sensor Size(Φmm)	11.4(2/3")
F/#	4.9
MTF30(lp/mm)	>180
DOF(mm)	±17.6@F11
Distortion(% max)	<0.1
Telecentricity(" max)	<0.1
I/O(mm)	388±3
Length(mm)	192.0
Mount	C
Weight(kg)	1.0
Field of View (mmxmm)	
1/1.8" EV76C570 (7.2x5.4)	45.6x34.2
1/1.7" IMX226 (7.5x5.6)	47.5x35.4
2/3" IMX250/264 (8.45x7.1)	53.5x44.9

DTCM230-90-AL



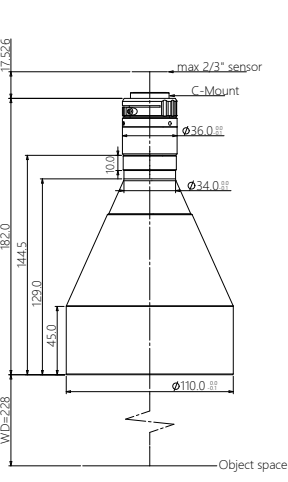
FOV(Φmm)	90
Mag.(x)	0.127
WD(mm)	208±3
Max Sensor Size(Φmm)	11.4(2/3")
F/#	4.9
MTF30(lp/mm)	>180
DOF(mm)	±27.2@F11
Distortion(% max)	<0.1
Telecentricity(" max)	<0.1
I/O(mm)	443±3
Length(mm)	217.0
Mount	C
Weight(kg)	1.7
Field of View (mmxmm)	
1/1.8" EV76C570 (7.2x5.4)	56.7x42.5
1/1.7" IMX226 (7.5x5.6)	59.1x44.1
2/3" IMX250/264 (8.45x7.1)	66.5x55.9

DTCM230-110-AL



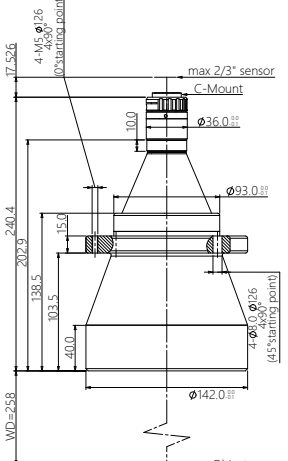
FOV(Φmm)	110
Mag.(x)	0.104
WD(mm)	263±4
Max Sensor Size(Φmm)	11.4(2/3")
F/#	4.9
MTF30(lp/mm)	>190
DOF(mm)	±40.7@F11
Distortion(% max)	<0.1
Telecentricity(" max)	<0.1
I/O(mm)	550±4
Length(mm)	269.6
Mount	C
Weight(kg)	2.7
Field of View (mmxmm)	
1/1.8" EV76C570 (7.2x5.4)	69.2x51.9
1/1.7" IMX226 (7.5x5.6)	72.1x53.8
2/3" IMX250/264 (8.45x7.1)	81.3x68.3

DTCM230-80H-AL



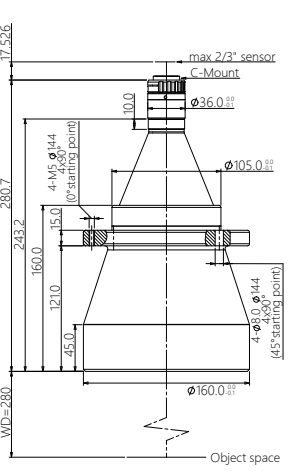
FOV(Φmm)	80
Mag.(x)	0.142
WD(mm)	228±4
Max Sensor Size(Φmm)	11.4(2/3")
F/#	4.9
MTF30(lp/mm)	>180
DOF(mm)	±21.7@F11
Distortion(% max)	<0.1
Telecentricity(" max)	<0.1
I/O(mm)	428±4
Length(mm)	182.0
Mount	C
Weight(kg)	1.9
Field of View (mmxmm)	
1/1.8" EV76C570 (7.2x5.4)	50.7x38.0
1/1.7" IMX226 (7.5x5.6)	52.8x39.4
2/3" IMX250/264 (8.45x7.1)	59.5x50.0

DTCM230-100-AL



FOV(Φmm)	100
Mag.(x)	0.114
WD(mm)	258±4
Max Sensor Size(Φmm)	11.4(2/3")
F/#	5.4
MTF30(lp/mm)	>170
DOF(mm)	±33.8@F11
Distortion(% max)	<0.1
Telecentricity(" max)	<0.1
I/O(mm)	516±4
Length(mm)	240.4
Mount	C
Weight(kg)	3.1
Field of View (mmxmm)	
1/1.8" EV76C570 (7.2x5.4)	63.2x47.4
1/1.7" IMX226 (7.5x5.6)	65.8x49.1
2/3" IMX250/264 (8.45x7.1)	74.1x62.3

DTCM230-120-AL



FOV(Φmm)	120
Mag.(x)	0.095
WD(mm)	280±5
Max Sensor Size(Φmm)	11.4(2/3")
F/#	4.9
MTF30(lp/mm)	>185
DOF(mm)	±48.7@F11
Distortion(% max)	<0.1
Telecentricity(" max)	<0.1
I/O(mm)	578±5
Length(mm)	280.7
Mount	C
Weight(kg)	4.2
Field of View (mmxmm)	
1/1.8" EV76C570 (7.2x5.4)	75.8x56.8
1/1.7" IMX226 (7.5x5.6)	78.9x58.9
2/3" IMX250/264 (8.45x7.1)	88.9x74.7

DTCA Series
Bi-Telecentric Lens
with Iris and Coaxial Light

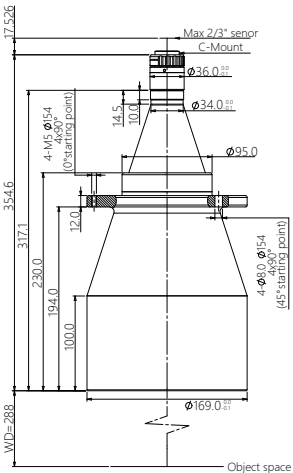
WWK Series
Telecentric Lens for
AOI Inspection

DTCM Series
Bi-Telecentric Lens

WWH Series
Megapixel Object Side
Telecentric Lens

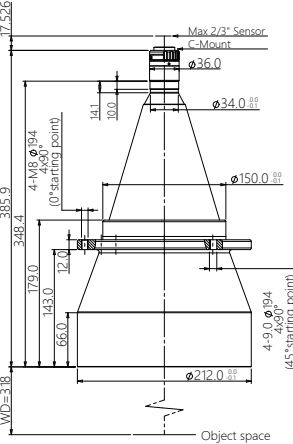
WWL Series
Standard Fixed
Magnification Lens

DTCM230-136-AL



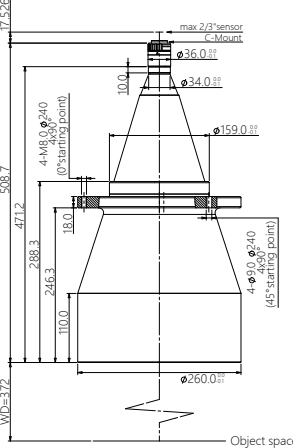
FOV(Φmm)	136
Mag.(x)	0.084
WD(mm)	288±5
Max Sensor Size(Φmm)	11.4(2/3")
F/#	4.9
MTF30(lp/mm)	>185
DOF(mm)	±62.4@F11
Distortion(% max)	<0.1
Telecentricity(" max)	<0.1
I/O(mm)	659±5
Length(mm)	354.6
Mount	C
Weight(kg)	-
Field of View (mmxmm)	
1/1.8" EV76C570 (7.2x5.4)	85.7x64.3
1/1.7" IMX226 (7.5x5.6)	89.3x66.7
2/3" IMX250/264 (8.45x7.1)	100.6x84.5

DTCM230-170-AL



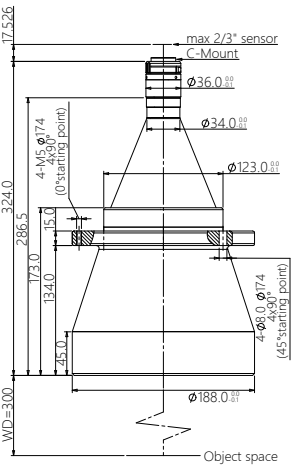
FOV(Φmm)	170
Mag.(x)	0.067
WD(mm)	318±5
Max Sensor Size(Φmm)	11.4(2/3")
F/#	4.9
MTF30(lp/mm)	>180
DOF(mm)	±98@F11
Distortion(% max)	<0.1
Telecentricity(" max)	<0.1
I/O(mm)	721±5
Length(mm)	385.9
Mount	C
Weight(kg)	6.5
Field of View (mmxmm)	
1/1.8" EV76C570 (7.2x5.4)	107.5x80.6
1/1.7" IMX226 (7.5x5.6)	111.9x83.6
2/3" IMX250/264 (8.45x7.1)	126.1x106.0

DTCM230-216-AL



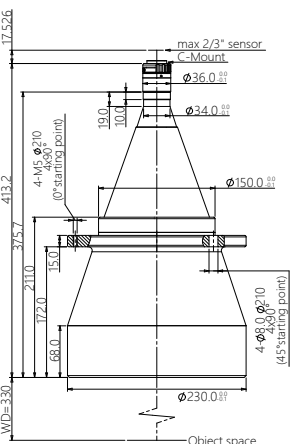
FOV(Φmm)	216
Mag.(x)	0.053
WD(mm)	372±5
Max Sensor Size(Φmm)	11.4(2/3")
F/#	4.9
MTF30(lp/mm)	>180
DOF(mm)	±157@F11
Distortion(% max)	<0.1
Telecentricity(" max)	<0.1
I/O(mm)	898±5
Length(mm)	508.7
Mount	C
Weight(kg)	13.7
Field of View (mmxmm)	
1/1.8" EV76C570 (7.2x5.4)	135.8x101.9
1/1.7" IMX226 (7.5x5.6)	141.5x105.7
2/3" IMX250/264 (8.45x7.1)	159.4x134.0

DTCM230-150-AL



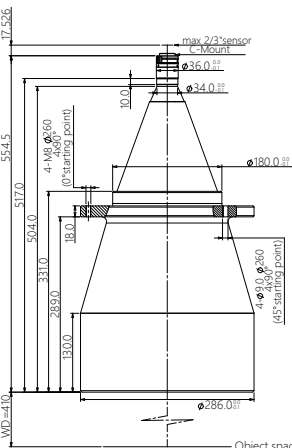
FOV(Φmm)	150
Mag.(x)	0.076
WD(mm)	300±5
Max Sensor Size(Φmm)	11.4(2/3")
F/#	4.9
MTF30(lp/mm)	>185
DOF(mm)	±76.1@F11
Distortion(% max)	<0.1
Telecentricity(" max)	<0.1
I/O(mm)	642±5
Length(mm)	324.0
Mount	C
Weight(kg)	5.7
Field of View (mmxmm)	
1/1.8" EV76C570 (7.2x5.4)	94.7x71.1
1/1.7" IMX226 (7.5x5.6)	98.7x73.7
2/3" IMX250/264 (8.45x7.1)	111.2x93.4

DTCM230-190-AL



FOV(Φmm)	190
Mag.(x)	0.060
WD(mm)	330±5
Max Sensor Size(Φmm)	11.4(2/3")
F/#	4.9
MTF30(lp/mm)	>180
DOF(mm)	±122@F11
Distortion(% max)	<0.1
Telecentricity(" max)	<0.1
I/O(mm)	761±5
Length(mm)	413.2
Mount	C
Weight(kg)	11.0
Field of View (mmxmm)	
1/1.8" EV76C570 (7.2x5.4)	120.0x90.0
1/1.7" IMX226 (7.5x5.6)	125.0x93.3
2/3" IMX250/264 (8.45x7.1)	140.8x118.3

DTCM230-240H-AL



FOV(Φmm)	240
Mag.(x)	0.048
WD(mm)	410±6
Max Sensor Size(Φmm)	11.4(2/3")
F/#	4.9
MTF30(lp/mm)	>180
DOF(mm)	±195@F11
Distortion(% max)	<0.1
Telecentricity(" max)	<0.1
I/O(mm)	982±6
Length(mm)	554.5
Mount	C
Weight(kg)	19.3
Field of View (mmxmm)	
1/1.8" EV76C570 (7.2x5.4)	150.0x112.5
1/1.7" IMX226 (7.5x5.6)	156.3x116.7
2/3" IMX250/264 (8.45x7.1)	176.0x147.9

DTCM Series
Magnification Crosstab

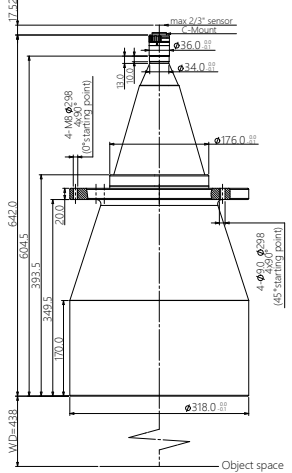
DTCM125 Series

DTCM120 Series

DTCM118 Series

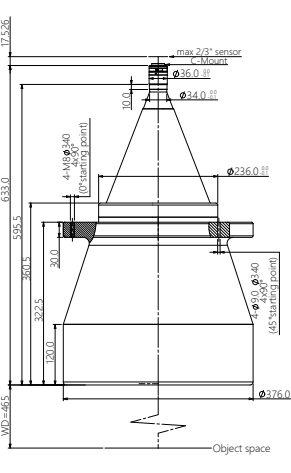
DTCM230 Series

DTCM230-268-AL



FOV(Φmm)	268
Mag.(x)	0.043
WD(mm)	438±6
Max Sensor Size(Φmm)	11.4(2/3")
F/#	4.9
MTF30(lp/mm)	>180
DOF(mm)	±238@F11
Distortion(% max)	<0.1
Telecentricity(" max)	<0.1
I/O(mm)	1097±6
Length(mm)	642.0
Mount	C
Weight(kg)	-
Field of View (mmxmm)	
1/1.8" EV76C570 (7.2x5.4)	167.4x125.6
1/1.7" IMX226 (7.5x5.6)	174.4x130.2
2/3" IMX250/264 (8.45x7.1)	196.5x165.1

DTCM230-300-AL



FOV(Φmm)	300
Mag.(x)	0.038
WD(mm)	465±6
Max Sensor Size(Φmm)	11.4(2/3")
F/#	4.9
MTF30(lp/mm)	>180
DOF(mm)	±304@F11
Distortion(% max)	<0.1
Telecentricity(" max)	<0.1
I/O(mm)	1116±6
Length(mm)	633.0
Mount	C
Weight(kg)	46.6
Field of View (mmxmm)	
1/1.8" EV76C570 (7.2x5.4)	189.5x142.1
1/1.7" IMX226 (7.5x5.6)	197.4x147.4
2/3" IMX250/264 (8.45x7.1)	222.4x186.8

Essential Tool

System calibration targets

Product features

It is used to calibrate the image system, which is necessary for high-precision positioning, measurement, and inspection solutions.

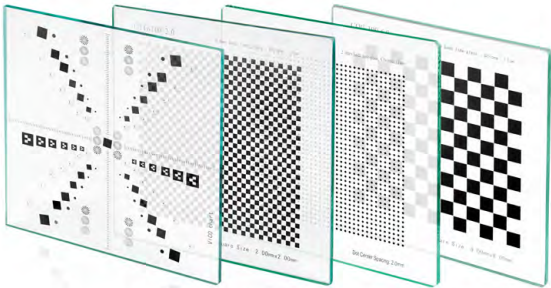
Key advantage

Super high accuracy. Various sizes, customization patterns are available. Material include: glass, quartz, ceramic, film, paper, metal base material, etc.

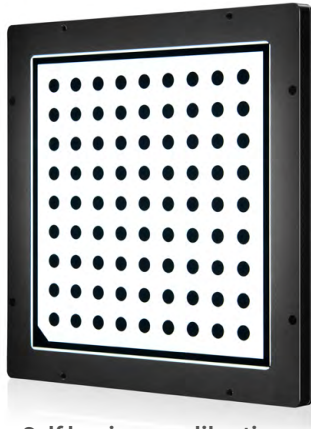
Glass calibration target - lithography process, physical error of standard accuracy for single pattern is within 1 μm, physical error of adjacent pattern is +/- 1μm. The highest accuracy can up to 0.5μm, maximum size is 1000mm*1000mm.

Ceramic calibration target -- diffuse reflection, completely eliminates the reflection. The physical error of standard accuracy for single pattern is within 1 μm, physical error of adjacent pattern is +/- 1μm. Maximum size is up to 200*200mm.

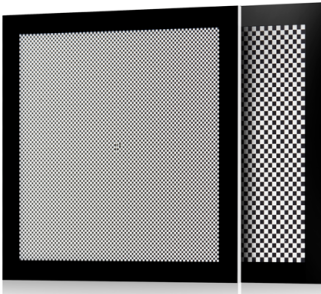
Product pictures



Glass calibrating target



Self luminous calibration target



Ceramic calibration target

Cameras



Lens Model	FOV (Φmm)	Mag. β(x)	WD (mm)	Sensor Size (Φmm)	F/#	MTF30 (lp/mm)	DOF (mm)	Distortion (% max)	Telecentricity (° max)	I/O (mm)	Length (mm)	Mount	Weight (kg)
DTCM110-26	26	0.638	73±1	16.6(1")	8.7	>90	±1.6@F16	<0.1	<0.1	227±1	136.3	C	0.4
DTCM110-36	36	0.460	110±2	16.6(1")	7.8	>100	±3.0@F16	<0.1	<0.1	284±2	156.4	C	0.5
DTCM110-42	42	0.395	118±3	16.6(1")	6.5	>130	±4.1@F16	<0.1	<0.1	278±3	141.9	C	0.5
DTCM110-48	48	0.346	128±3	16.6(1")	6.5	>130	±5.3@F16	<0.1	<0.1	301±3	155.4	C	0.5
DTCM110-56-AL	56	0.296	138±3	16.6(1")	6.5	>130	±7.3@F16	<0.1	<0.1	334±3	178.0	C	0.7
DTCM110-64H-AL	64	0.259	158±3	16.6(1")	6.5	>130	±9.5@F16	<0.1	<0.1	366±3	190.5	C	0.9
DTCM110-72-AL	72	0.231	178±3	16.6(1")	6.5	>135	±12.0@F16	<0.1	<0.1	406±3	210.5	C	1.1
DTCM110-80H-AL	80	0.208	228±4	16.6(1")	6.5	>135	±14.8@F16	<0.1	<0.1	446±4	200.5	C	1.9
DTCM110-90-AL	90	0.184	208±3	16.6(1")	6.5	>135	±18.9@F16	<0.1	<0.1	461±3	235.5	C	1.7
DTCM110-100-AL	100	0.166	258±4	16.6(1")	6.5	>140	±23.2@F16	<0.1	<0.1	534±4	258.8	C	3.1
DTCM110-110-AL	110	0.151	263±4	16.6(1")	6.5	>140	±28.1@F16	<0.1	<0.1	569±4	288.1	C	2.7
DTCM110-120-AL	120	0.138	280±5	16.6(1")	6.5	>140	±33.6@F16	<0.1	<0.1	597±5	299.2	C	4.2
DTCM110-136-AL	136	0.122	288±5	16.6(1")	6.5	>140	±43.0@F16	<0.1	<0.1	679±5	373.0	C	-
DTCM110-150-AL	150	0.110	300±5	16.6(1")	6.5	>120	±52.9@F16	<0.1	<0.1	660±5	342.4	C	5.7
DTCM110-170-AL	170	0.098	318±5	16.6(1")	6.5	>140	±66.6@F16	<0.1	<0.1	740±5	404.3	C	6.5
DTCM110-190-AL	190	0.087	330±5	16.6(1")	6.5	>135	±84.6@F16	<0.1	<0.1	779±5	431.7	C	11.1
DTCM110-216-AL	216	0.077	372±5	16.6(1")	6.5	>140	±107.9@F16	<0.1	<0.1	917±5	527.1	C	13.8
DTCM110-240H-AL	240	0.069	410±6	16.6(1")	6.5	>140	±134.4@F16	<0.1	<0.1	1001±6	573.0	C	19.3
DTCM110-268-AL	268	0.062	438±6	16.6(1")	6.5	>140	±166.5@F16	<0.1	<0.1	1116±6	660.5	C	-
DTCM110-300-AL	300	0.055	465±6	16.6(1")	6.5	>135	±211.6@F16	<0.1	<0.1	1134±6	651.5	C	46.6

max 1° sensor

175.26

4.0

C-Mount

10.0

Ø34.0 $H9/p8$

80.4

50.4

31.8

7.3

WD=73

Ø44.0 $H9/p8$

Object space

FOV(Φmm)	26	
Mag.(x)	0.638	
WD(mm)	73±1	
Max Sensor Size(Φmm)	16.6(1")	
F/#	8.7	
MTF30(lp/mm)	>90	
DOF(mm)	±1.6@F16	
Distortion(% max)	<0.1	
Telecentricity(° max)	<0.1	
I/O(mm)	227±1	
Length(mm)	136.3	
Mount	C	
Weight(kg)	0.4	
Field of View (mmxmm)		
1" PYTHON5000 (12.43x9.83)	19.5x15.4	
1" IMX255 (14.19x7.51)	22.2x11.8	
1" IMX183 (13.13x8.76)	20.6x13.7	

max 1" sensor

C-Mount

175.25

4.0

10.0

141.9

86.0

62.7

32.0

WD=118

Ø34.0 ± 0.05

Ø62.0 ± 0.05

Object space

FOV(Φmm)	42	
Mag.(x)	0.395	
WD(mm)	118±3	
Max Sensor Size(Φmm)	16.6(1")	
F/#	6.5	
MTF30(lp/mm)	>130	
DOF(mm)	±4.1@F16	
Distortion(% max)	<0.1	
Telecentricity(° max)	<0.1	
I/O(mm)	278±3	
Length(mm)	141.9	
Mount	C	
Weight(kg)	0.5	
Field of View (mmxmm)		
1" PYTHON5000 (12.43x9.83)	31.5x24.9	
1" IMX255 (14.19x7.51)	35.9x19.0	
1" IMX183 (13.13x8.76)	33.2x22.2	

Technical drawing of the C-Mount showing dimensions and labels:

- max 1" sensor
- C-Mount
- 17.52
- 45.8
- 10.0
- 178.0
- 122.0
- 101.1
- 40.7
- WD=138
- Object space
- $\phi 40.0^{+0.03}_{-0.04}$
- $\phi 34.0^{+0.03}_{-0.04}$
- $\phi 78.0^{+0.10}_{-0.12}$

FOV(Φmm)	56
Mag.(x)	0.296
WD(mm)	138±3
Max Sensor Size(Φmm)	16.6(1")
F/#	6.5
MTF30(lp/mm)	>130
DOF(mm)	±7.3@F16
Distortion(% max)	<0.1
Telecentricity(° max)	<0.1
I/O(mm)	334±3
Length(mm)	178.0
Mount	C
Weight(kg)	0.7
Field of View (mmxmm)	
1" PYTHON5000 (12.43x9.83)	42.0x33.2
1" IMX255 (14.19x7.51)	47.9x25.4
1" IMX183 (13.13x8.76)	44.4x29.6

Technical drawing of the C-mount camera head showing dimensions in mm and inches. The drawing includes the following dimensions and labels:

- max 1" sensor
- C-Mount
- 17.526
- 4.0
- 10.0
- $\phi 34.0$
- 156.4
- 100.5
- 84.5
- 53.7
- $\phi 54.0$
- WD=110
- Object space

FOV(Φmm)	36
Mag.(x)	0.460
WD(mm)	110±2
Max Sensor Size(Φmm)	16.6(1")
F/#	7.8
MTF30(lp/mm)	>100
DOF(mm)	±3.0@F16
Distortion(% max)	<0.1
Telecentricity(° max)	<0.1
I/O(mm)	284±2
Length(mm)	156.4
Mount	C
Weight(kg)	0.5
Field of View (mmxmm)	
1" PYTHON5000 (12.43x9.83)	27.0x21.4
1" IMX255 (14.19x7.51)	30.8x16.3
1" IMX183 (13.13x8.76)	28.5x19.0

Technical drawing of the sensor assembly with the following dimensions and labels:

- max 1" sensor
- C-Mount
- 17.526
- 4.0
- 10.0
- $\phi 34.0$
- 155.4
- 99.5
- 67.6
- 35.4
- $\phi 64.0$
- WD=128
- Object space

FOV(Φmm)	48
Mag.(x)	0.346
WD(mm)	128±3
Max Sensor Size(Φmm)	16.6(1")
F/#	6.5
MTF30(lp/mm)	>130
DOF(mm)	±5.3@F16
Distortion(% max)	<0.1
Telecentricity(° max)	<0.1
I/O(mm)	301±3
Length(mm)	155.4
Mount	C
Weight(kg)	0.5
Field of View (mmxmm)	
1" PYTHON5000 (12.43x9.83)	35.9x28.4
1" IMX255 (14.19x7.51)	41.0x21.7
1" IMX183 (13.13x8.76)	37.9x25.3

max 1° sensor

C-Mount

175.2

17.5

51.0

40.0

34.0

34.0

116.5

84.0

158

Object space

FOV(Φmm)	64
Mag.(x)	0.259
WD(mm)	158±3
Max Sensor Size(Φmm)	16.6(1")
F/#	6.5
MTF30(lp/mm)	>130
DOF(mm)	±9.5@F16
Distortion(% max)	<0.1
Telecentricity(° max)	<0.1
I/O(mm)	366±3
Length(mm)	190.5
Mount	C
Weight(kg)	0.9
Field of View (mmxmm)	
1" PYTHON5000 (12.43x9.83)	48.0x38.0
1" IMX255 (14.19x7.51)	54.8x29.0
1" IMX183 (13.13x8.76)	50.7x33.8

DTCA Series
Bi-Telecentric Lens
with Iris and Coaxial Light

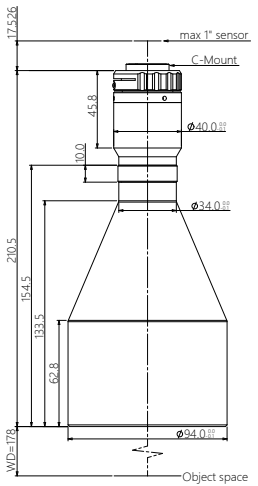
WWK Series
Telecentric Lens for
AOI Inspection

DTCM Series
Bi-Telecentric Lens

WWH Series
Megapixel Object Side
Telecentric Lens

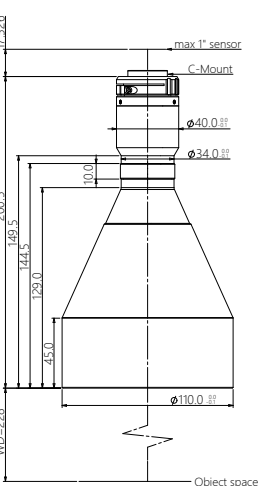
WWL Series
Standard Fixed
Magnification Lens

DTCM110-72-AL



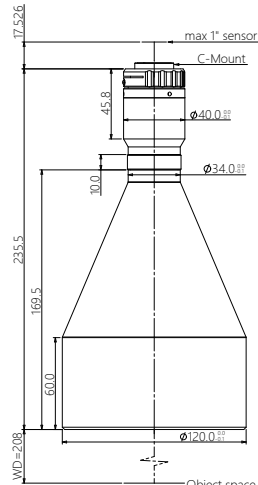
FOV(Φmm)	72
Mag.(x)	0.231
WD(mm)	178±3
Max Sensor Size(Φmm)	16.6(1")
F/#	6.5
MTF30(lp/mm)	>135
DOF(mm)	±12.0@F16
Distortion(% max)	<0.1
Telecentricity(" max)	<0.1
I/O(mm)	406±3
Length(mm)	210.5
Mount	C
Weight(kg)	1.1
Field of View (mmxmm)	
1" PYTHON5000 (12.43x9.83)	53.8x42.6
1" IMX255 (14.19x7.51)	61.4x32.5
1" IMX183 (13.13x8.76)	56.8x37.9

DTCM110-80H-AL



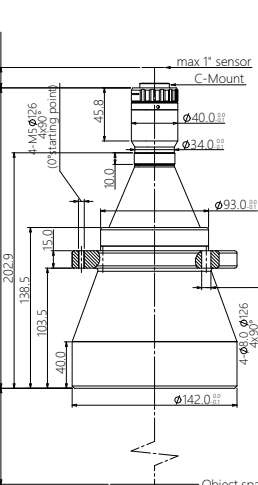
FOV(Φmm)	80
Mag.(x)	0.208
WD(mm)	228±4
Max Sensor Size(Φmm)	16.6(1")
F/#	6.5
MTF30(lp/mm)	>135
DOF(mm)	±14.8@F16
Distortion(% max)	<0.1
Telecentricity(" max)	<0.1
I/O(mm)	446±4
Length(mm)	200.5
Mount	C
Weight(kg)	1.9
Field of View (mmxmm)	
1" PYTHON5000 (12.43x9.83)	59.8x47.3
1" IMX255 (14.19x7.51)	68.2x36.1
1" IMX183 (13.13x8.76)	63.1x42.1

DTCM110-90-AL



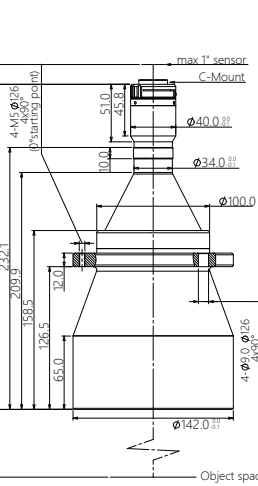
FOV(Φmm)	90
Mag.(x)	0.184
WD(mm)	208±3
Max Sensor Size(Φmm)	16.6(1")
F/#	6.5
MTF30(lp/mm)	>135
DOF(mm)	±18.9@F16
Distortion(% max)	<0.1
Telecentricity(" max)	<0.1
I/O(mm)	461±3
Length(mm)	235.5
Mount	C
Weight(kg)	1.7
Field of View (mmxmm)	
1" PYTHON5000 (12.43x9.83)	67.6x53.4
1" IMX255 (14.19x7.51)	77.1x40.8
1" IMX183 (13.13x8.76)	71.4x47.6

DTCM110-100-AL



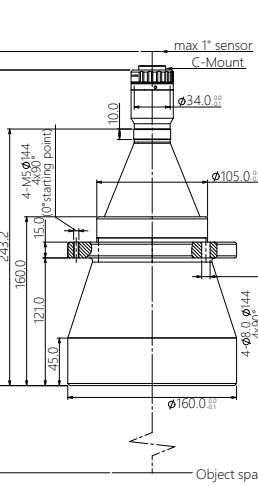
FOV(Φmm)	100
Mag.(x)	0.166
WD(mm)	258±4
Max Sensor Size(Φmm)	16.6(1")
F/#	6.5
MTF30(lp/mm)	>140
DOF(mm)	±23.2@F16
Distortion(% max)	<0.1
Telecentricity(" max)	<0.1
I/O(mm)	534±4
Length(mm)	258.8
Mount	C
Weight(kg)	3.1
Field of View (mmxmm)	
1" PYTHON5000 (12.43x9.83)	74.9x59.2
1" IMX255 (14.19x7.51)	85.5x45.2
1" IMX183 (13.13x8.76)	79.1x52.8

DTCM110-110-AL



FOV(Φmm)	110
Mag.(x)	0.151
WD(mm)	263±4
Max Sensor Size(Φmm)	16.6(1")
F/#	6.5
MTF30(lp/mm)	>140
DOF(mm)	±28.1@F16
Distortion(% max)	<0.1
Telecentricity(" max)	<0.1
I/O(mm)	569±4
Length(mm)	288.1
Mount	C
Weight(kg)	2.7
Field of View (mmxmm)	
1" PYTHON5000 (12.43x9.83)	82.3x65.1
1" IMX255 (14.19x7.51)	94.0x49.7
1" IMX183 (13.13x8.76)	87.0x58.0

DTCM110-120-AL



FOV(Φmm)	120
Mag.(x)	0.138
WD(mm)	280±5
Max Sensor Size(Φmm)	16.6(1")
F/#	6.5
MTF30(lp/mm)	>140
DOF(mm)	±33.6@F16
Distortion(% max)	<0.1
Telecentricity(" max)	<0.1
I/O(mm)	597±5
Length(mm)	299.2
Mount	C
Weight(kg)	4.2
Field of View (mmxmm)	
1" PYTHON5000 (12.43x9.83)	90.1x71.2
1" IMX255 (14.19x7.51)	102.8x54.4
1" IMX183 (13.13x8.76)	95.1x63.5

DTCM110 Series

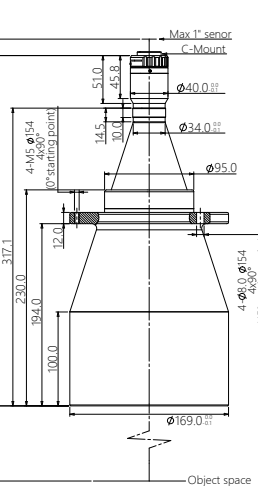
DTCM111 Series

DTCM430 Series

DTCM175 Series

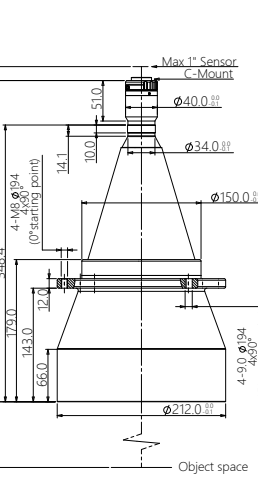
DTCM210 Series

DTCM110-136-AL



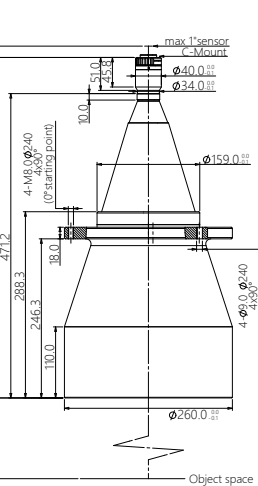
FOV(Φmm)	136
Mag.(x)	0.122
WD(mm)	288±5
Max Sensor Size(Φmm)	16.6(1")
F/#	6.5
MTF30(lp/mm)	>140
DOF(mm)	±43.0@F16
Distortion(% max)	<0.1
Telecentricity(" max)	<0.1
I/O(mm)	679±5
Length(mm)	373.0
Mount	C
Weight(kg)	-
Field of View (mmxmm)	
1" PYTHON5000 (12.43x9.83)	101.9x80.6
1" IMX255 (14.19x7.51)	116.3x61.6
1" IMX183 (13.13x8.76)	107.6x71.8

DTCM110-170-AL



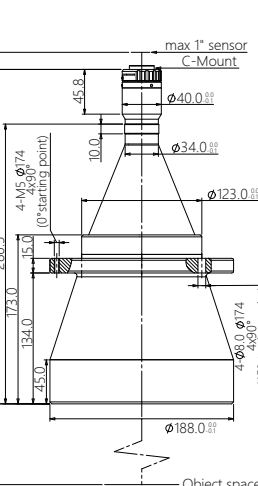
FOV(Φmm)	170
Mag.(x)	0.098
WD(mm)	318±5
Max Sensor Size(Φmm)	16.6(1")
F/#	6.5
MTF30(lp/mm)	>140
DOF(mm)	±66.6@F16
Distortion(% max)	<0.1
Telecentricity(" max)	<0.1
I/O(mm)	740±5
Length(mm)	404.3
Mount	C
Weight(kg)	6.5
Field of View (mmxmm)	
1" PYTHON5000 (12.43x9.83)	126.8x100.3
1" IMX255 (14.19x7.51)	144.8x76.6
1" IMX183 (13.13x8.76)	134.0x89.4

DTCM110-216-AL



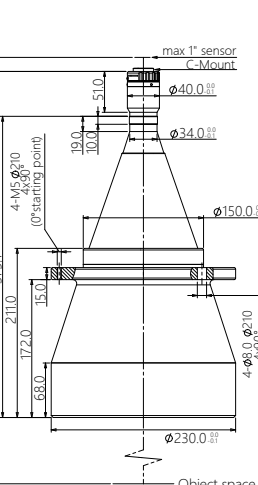
FOV(Φmm)	216
Mag.(x)	0.077
WD(mm)	372±5
Max Sensor Size(Φmm)	16.6(1")
F/#	6.5
MTF30(lp/mm)	>140
DOF(mm)	±107.9@F16
Distortion(% max)	<0.1
Telecentricity(" max)	<0.1
I/O(mm)	917±5
Length(mm)	527.1
Mount	C
Weight(kg)	13.8
Field of View (mmxmm)	
1" PYTHON5000 (12.43x9.83)	161.4x127.7
1" IMX255 (14.19x7.51)	184.3x97.5
1" IMX183 (13.13x8.76)	170.5x113.8

DTCM110-150-AL



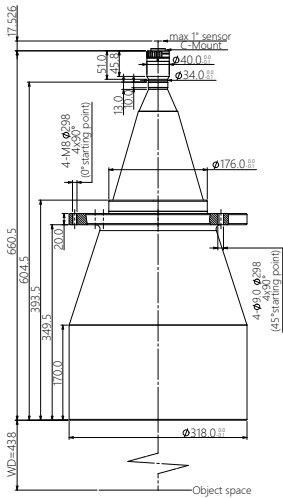
FOV(Φmm)	150
Mag.(x)	0.110
WD(mm)	300±5
Max Sensor Size(Φmm)	16.6(1")
F/#	6.5
MTF30(lp/mm)	>120
DOF(mm)	±52.9@F16
Distortion(% max)	<0.1
Telecentricity(" max)	<0.1
I/O(mm)	660±5
Length(mm)	342.4
Mount	C
Weight(kg)	5.7
Field of View (mmxmm)	
1" PYTHON5000 (12.43x9.83)	113.0x89.4
1" IMX255 (14.19x7.51)	129.0x68.3
1" IMX183 (13.13x8.76)	119.4x79.6

DTCM110-190-AL



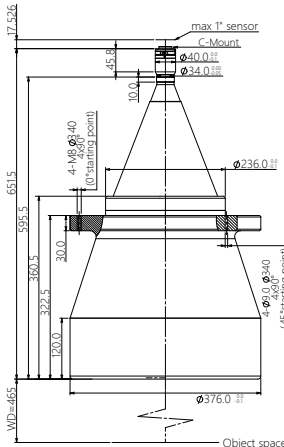
FOV(Φmm)	190
Mag.(x)	0.087
WD(mm)	330±5
Max Sensor Size(Φmm)	16.6(1")
F/#	6.5
MTF30(lp/mm)	>135
DOF(mm)	±84.6@F16
Distortion(% max)	<0.1
Telecentricity(" max)	<0.1
I/O(mm)	779±5
Length(mm)	431.7
Mount	C
Weight(kg)	11.1
Field of View (mmxmm)	
1" PYTHON5000 (12.43x9.83)	142.9x113.0
1" IMX255 (14.19x7.51)	163.1x86.3
1" IMX183 (13.13x8.76)	150.9x100.7

DTCM110-268-AL



FOV(Φmm)	268
Mag.(x)	0.062
WD(mm)	438±6
Max Sensor Size(Φmm)	16.6(1")
F/#	6.5
MTF30(lp/mm)	>140
DOF(mm)	±166.5@F16
Distortion(% max)	<0.1
Telecentricity(" max)	<0.1
I/O(mm)	1116±6
Length(mm)	660.5
Mount	C
Weight(kg)	-
Field of View (mmxmm)	
1" PYTHON5000 (12.43x9.83)	200.5x158.5
1" IMX255 (14.19x7.51)	228.9x121.1
1" IMX183 (13.13x8.76)	211.8x141.3

DTCM110-300-AL



FOV(Φmm)	300
Mag.(x)	0.055
WD(mm)	465±6
Max Sensor Size(Φmm)	16.6(1")
F/#	6.5
MTF30(lp/mm)	>135
DOF(mm)	±211.6@F16
Distortion(% max)	<0.1
Telecentricity(" max)	<0.1
I/O(mm)	1134±6
Length(mm)	651.5
Mount	C
Weight(kg)	46.6
Field of View (mmxmm)	
1" PYTHON5000 (12.43x9.83)	226.0x178.7
1" IMX255 (14.19x7.51)	258.0x136.5
1" IMX183 (13.13x8.76)	238.7x159.3

Customized Product

Dual magnifications telecentric imaging device

Model: DTCM210-35F-80-AL

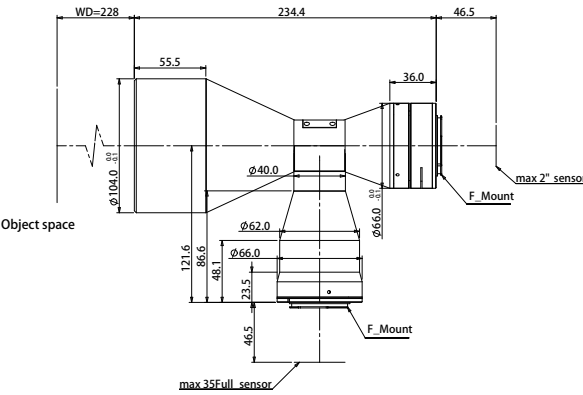
Description

A set of device can provides the images with different magnifications and different FOV. The images will displayed from two cameras.

Key advantage

Both consider FOV and resolution, greatly optimized the system design.

Product pictures



DTCM210-35F-80-AL Drawing



Product's 3D design map- back

DTCM111 Series

Support 1.1"

Cameras



Lens Model	FOV (Φmm)	Mag. β(x)	WD (mm)	Sensor Size (Φmm)	F/#	MTF30 (lp/mm)	DOF (mm)	Distortion (% max)	Telecentricity (" max)	I/O (mm)	Length (mm)	Mount	Weight (kg)
DTCM111-26-AL	26	0.708	73±1	18.4(1.1")	9.6	>75	±1.6@F20	<0.1	<0.1	238±1	147.7	C	0.4
DTCM111-36-AL	36	0.511	110±2	18.4(1.1")	8.7	>85	±3.0@F20	<0.1	<0.1	295±2	167.7	C	0.6
DTCM111-42-AL	42	0.438	118±3	18.4(1.1")	7.2	>115	±3.3@F16	<0.1	<0.1	289±3	153.2	C	0.5
DTCM111-48-AL	48	0.383	128±3	18.4(1.1")	7.2	>115	±4.3@F16	<0.1	<0.1	312±3	166.7	C	0.6
DTCM111-56-AL	56	0.329	138±3	18.4(1.1")	6.2	>145	±4.0@F11	<0.1	<0.1	345±3	189.2	C	0.8
DTCM111-64H-AL	64	0.288	158±3	18.4(1.1")	6.2	>150	±7.8@F16	<0.1	<0.1	377±3	201.7	C	1.0
DTCM111-72-AL	72	0.256	178±3	18.4(1.1")	6.2	>145	±6.7@F11	<0.1	<0.1	417±3	221.7	C	1.2
DTCM111-80H-AL	80	0.230	228±4	18.4(1.1")	6.2	>145	±12.1@F16	<0.1	<0.1	457±4	211.7	C	2.0
DTCM111-90-AL	90	0.204	208±3	18.4(1.1")	6.2	>145	±10.5@F11	<0.1	<0.1	472±3	246.7	C	1.8
DTCM111-100-AL	100	0.184	258±4	18.4(1.1")	7.2	>120	±18.9@F16	<0.1	<0.1	546±4	270.1	C	3.2
DTCM111-110-AL	110	0.167	263±4	18.4(1.1")	6.2	>150	±15.8@F11	<0.1	<0.1	580±4	299.3	C	2.8
DTCM111-120-AL	120	0.153	280±5	18.4(1.1")	6.2	>145	±18.7@F11	<0.1	<0.1	608±5	310.4	C	4.3
DTCM111-136-AL	136	0.135	288±5	18.4(1.1")	6.2	>150	±24.1@F11	<0.1	<0.1	690±5	384.3	C	-
DTCM111-150-AL	150	0.123	300±5	18.4(1.1")	6.2	>145	±29@F11	<0.1	<0.1	671±5	353.7	C	5.8
DTCM111-170-AL	170	0.108	318±5	18.4(1.1")	6.2	>150	±37.7@F11	<0.1	<0.1	751±5	415.6	C	6.6
DTCM111-190-AL	190	0.097	330±5	18.4(1.1")	6.2	>145	±46.7@F11	<0.1	<0.1	791±5	443.0	C	11.2
DTCM111-216-AL	216	0.085	372±5	18.4(1.1")	6.2	>150	±60.9@F11	<0.1	<0.1	928±5	538.4	C	13.9
DTCM111-240H-AL	240	0.077	410±6	18.4(1.1")	6.2	>150	±109@F16	<0.1	<0.1	1012±6	584.2	C	19.4
DTCM111-268-AL	268	0.069	438±6	18.4(1.1")	6.2	>150	±92.4@F11	<0.1	<0.1	1127±6	671.8	C	-
DTCM111-300-AL	300	0.061	465±6	18.4(1.1")	6.2	>145	±118@F11	<0.1	<0.1	1145±6	662.7	C	46.7

DTCA Series
Bi-Telecentric Lens
with Iris and Coaxial Light

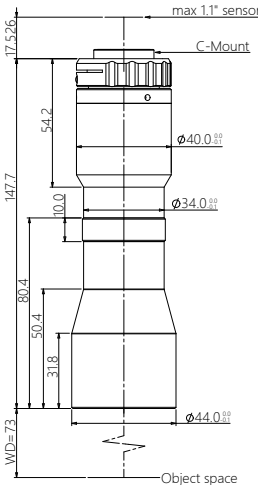
WWK Series
Telecentric Lens for
AOI Inspection

DTCM Series
Bi-Telecentric Lens

WWH Series
Megapixel Object Side
Telecentric Lens

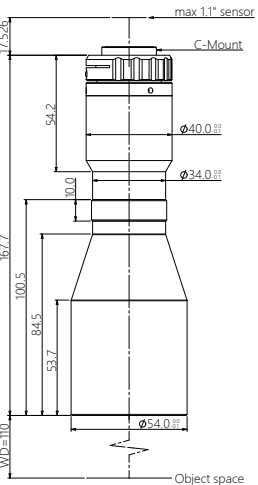
WWL Series
Standard Fixed
Magnification Lens

DTCM111-26-AL



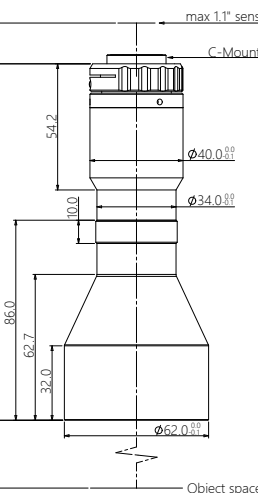
FOV(Φmm)	26
Mag.(x)	0.708
WD(mm)	73±1
Max Sensor Size(Φmm)	18.4(1.1")
F/#	9.6
MTF30(lp/mm)	>75
DOF(mm)	±1.6@F20
Distortion(% max)	<0.1
Telecentricity(° max)	<0.1
I/O(mm)	238±1
Length(mm)	147.7
Mount	C
Weight(kg)	0.4
Field of View (mmxmm)	
1" IMX183 (13.13x8.76)	18.5x12.4
1.1" IMX253 (14.19x10.38)	20.0x14.7

DTCM111-36-AL



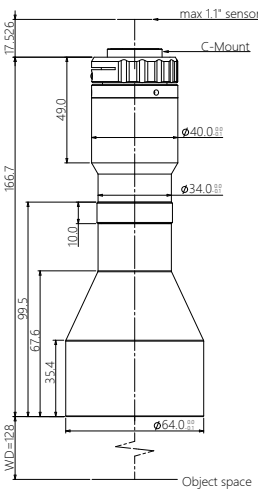
FOV(Φmm)	36
Mag.(x)	0.511
WD(mm)	110±2
Max Sensor Size(Φmm)	18.4(1.1")
F/#	8.7
MTF30(lp/mm)	>85
DOF(mm)	±3.0@F20
Distortion(% max)	<0.1
Telecentricity(° max)	<0.1
I/O(mm)	295±2
Length(mm)	167.7
Mount	C
Weight(kg)	0.6
Field of View (mmxmm)	
1" IMX183 (13.13x8.76)	25.7x17.1
1.1" IMX253 (14.19x10.38)	27.8x20.3

DTCM111-42-AL



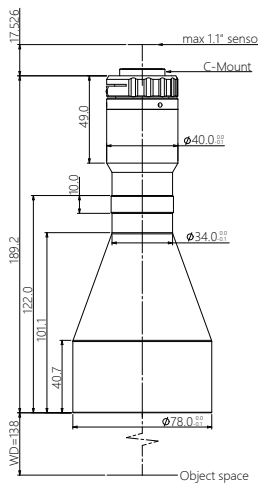
FOV(Φmm)	42
Mag.(x)	0.438
WD(mm)	118±3
Max Sensor Size(Φmm)	18.4(1.1")
F/#	7.2
MTF30(lp/mm)	>115
DOF(mm)	±3.3@F16
Distortion(% max)	<0.1
Telecentricity(° max)	<0.1
I/O(mm)	289±3
Length(mm)	153.2
Mount	C
Weight(kg)	0.5
Field of View (mmxmm)	
1" IMX183 (13.13x8.76)	30.0x20.0
1.1" IMX253 (14.19x10.38)	32.4x23.7

DTCM111-48-AL



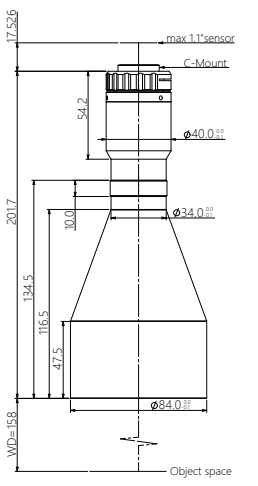
FOV(Φmm)	48
Mag.(x)	0.383
WD(mm)	128±3
Max Sensor Size(Φmm)	18.4(1.1")
F/#	7.2
MTF30(lp/mm)	>115
DOF(mm)	±4.3@F16
Distortion(% max)	<0.1
Telecentricity(° max)	<0.1
I/O(mm)	312±3
Length(mm)	166.7
Mount	C
Weight(kg)	0.6
Field of View (mmxmm)	
1" IMX183 (13.13x8.76)	34.3x22.9
1.1" IMX253 (14.19x10.38)	37.0x27.1

DTCM111-56-AL



FOV(Φmm)	56
Mag.(x)	0.329
WD(mm)	138±3
Max Sensor Size(Φmm)	18.4(1.1")
F/#	6.2
MTF30(lp/mm)	>145
DOF(mm)	±4.0@F11
Distortion(% max)	<0.1
Telecentricity(° max)	<0.1
I/O(mm)	345±3
Length(mm)	189.2
Mount	C
Weight(kg)	0.8
Field of View (mmxmm)	
1" IMX183 (13.13x8.76)	39.9x26.6
1.1" IMX253 (14.19x10.38)	43.1x31.6

DTCM111-64H-AL



FOV(Φmm)	64
Mag.(x)	0.288
WD(mm)	158±3
Max Sensor Size(Φmm)	18.4(1.1")
F/#	6.2
MTF30(lp/mm)	>150
DOF(mm)	±7.8@F16
Distortion(% max)	<0.1
Telecentricity(° max)	<0.1
I/O(mm)	377±3
Length(mm)	201.7
Mount	C
Weight(kg)	1.0
Field of View (mmxmm)	
1" IMX183 (13.13x8.76)	45.6x30.4
1.1" IMX253 (14.19x10.38)	49.3x36.0

DTCM110 Series

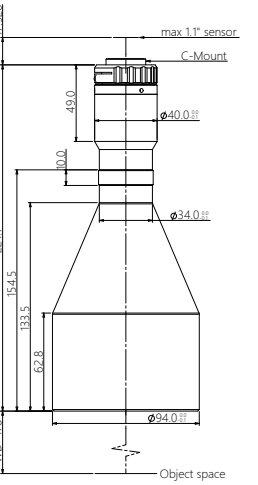
DTCM111 Series

DTCM430 Series

DTCM175 Series

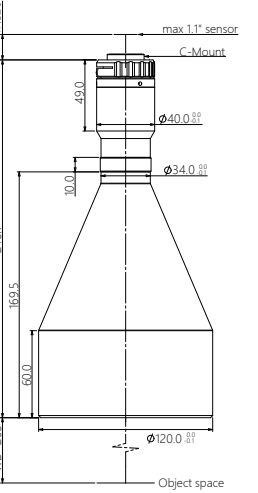
DTCM210 Series

DTCM111-72-AL



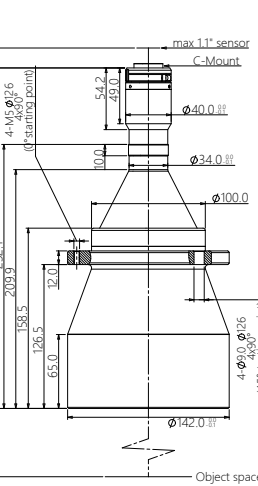
FOV(Φmm)	72
Mag.(x)	0.256
WD(mm)	178±3
Max Sensor Size(Φmm)	18.4(1.1")
F/#	6.2
MTF30(lp/mm)	>145
DOF(mm)	±6.7@F11
Distortion(% max)	<0.1
Telecentricity(° max)	<0.1
I/O(mm)	417±3
Length(mm)	221.7
Mount	C
Weight(kg)	1.2
Field of View (mmxmm)	
1" IMX183 (13.13x8.76)	51.3x34.2
1.1" IMX253 (14.19x10.38)	55.4x40.5

DTCM111-90-AL



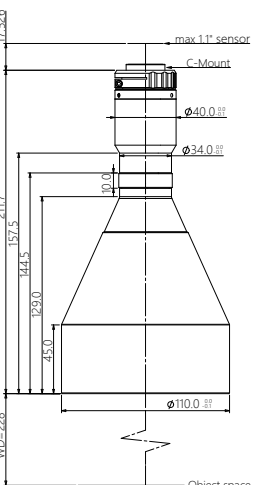
FOV(Φmm)	90
Mag.(x)	0.204
WD(mm)	208±3
Max Sensor Size(Φmm)	18.4(1.1")
F/#	6.2
MTF30(lp/mm)	>145
DOF(mm)	±10.5@F11
Distortion(% max)	<0.1
Telecentricity(° max)	<0.1
I/O(mm)	472±3
Length(mm)	246.7
Mount	C
Weight(kg)	1.8
Field of View (mmxmm)	
1" IMX183 (13.13x8.76)	64.4x42.9
1.1" IMX253 (14.19x10.38)	69.6x50.9

DTCM111-110-AL



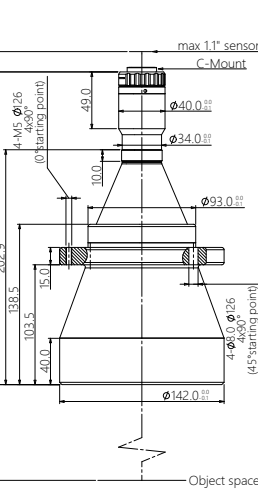
FOV(Φmm)	110
Mag.(x)	0.167
WD(mm)	263±4
Max Sensor Size(Φmm)	18.4(1.1")
F/#	6.2
MTF30(lp/mm)	>150
DOF(mm)	±15.8@F11
Distortion(% max)	<0.1
Telecentricity(° max)	<0.1
I/O(mm)	580±4
Length(mm)	299.3
Mount	C
Weight(kg)	2.8
Field of View (mmxmm)	
1" IMX183 (13.13x8.76)	78.6x52.5
1.1" IMX253 (14.19x10.38)	85.0x62.2

DTCM111-80H-AL



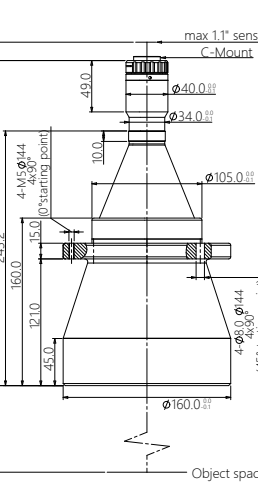
FOV(Φmm)	80
Mag.(x)	0.230
WD(mm)	228±4
Max Sensor Size(Φmm)	18.4(1.1")
F/#	6.2
MTF30(lp/mm)	>145
DOF(mm)	±12.1@F16
Distortion(% max)	<0.1
Telecentricity(° max)	<0.1
I/O(mm)	457±4
Length(mm)	211.7
Mount	C
Weight(kg)	2.0
Field of View (mmxmm)	
1" IMX183 (13.13x8.76)	57.1x38.1
1.1" IMX253 (14.19x10.38)	61.7x45.1

DTCM111-100-AL



FOV(Φmm)	100
Mag.(x)	0.184
WD(mm)	258±4
Max Sensor Size(Φmm)	18.4(1.1")
F/#	7.2
MTF30(lp/mm)	>120
DOF(mm)	±18.9@F16
Distortion(% max)	<0.1
Telecentricity(° max)	<0.1
I/O(mm)	546±4
Length(mm)	270.1
Mount	C
Weight(kg)	3.2
Field of View (mmxmm)	
1" IMX183 (13.13x8.76)	71.4x47.6
1.1" IMX253 (14.19x10.38)	77.1x56.4

DTCM111-120-AL



FOV(Φmm)	120
Mag.(x)	0.153
WD(mm)	280±5
Max Sensor Size(Φmm)	18.4(1.1")
F/#	6.2
MTF30(lp/mm)	>145
DOF(mm)	±18.7@F11
Distortion(% max)	<0.1
Telecentricity(° max)	<0.1
I/O(mm)	608±5
Length(mm)	310.4
Mount	C
Weight(kg)	4.3
Field of View (mmxmm)	
1" IMX183 (13.13x8.76)	85.8x57.3
1.1" IMX253 (14.19x10.38)	92.7x67.8

DTCA Series
Bi-Telecentric Lens
with Iris and Coaxial Light

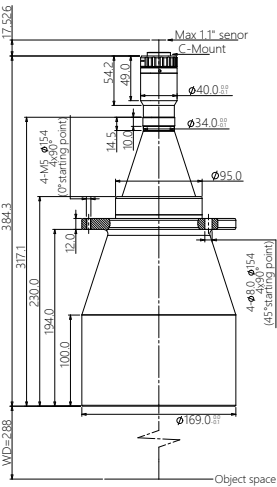
WWK Series
Telecentric Lens for
AOI Inspection

DTCM Series
Bi-Telecentric Lens

WWH Series
Megapixel Object Side
Telecentric Lens

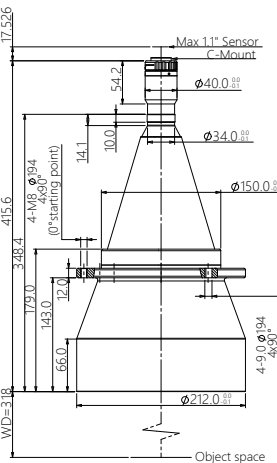
WWL Series
Standard Fixed
Magnification Lens

DTCM111-136-AL



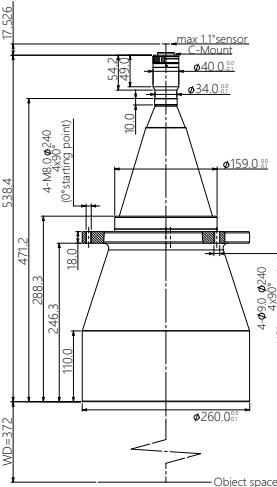
FOV(Φmm)	136
Mag.(x)	0.135
WD(mm)	288±5
Max Sensor Size(Φmm)	18.4(1.1")
F/#	6.2
MTF30(lp/mm)	>150
DOF(mm)	±24.1@F11
Distortion(% max)	<0.1
Telecentricity(° max)	<0.1
I/O(mm)	690±5
Length(mm)	384.3
Mount	C
Weight(kg)	-
Field of View (mmxmm)	
1" IMX183 (13.13x8.76)	97.3x64.9
1.1" IMX253 (14.19x10.38)	105.1x76.9

DTCM111-170-AL



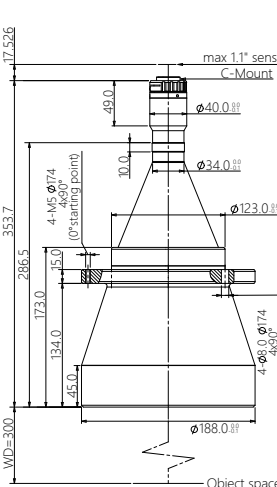
FOV(Φmm)	170
Mag.(x)	0.108
WD(mm)	318±5
Max Sensor Size(Φmm)	18.4(1.1")
F/#	6.2
MTF30(lp/mm)	>150
DOF(mm)	±37.7@F11
Distortion(% max)	<0.1
Telecentricity(° max)	<0.1
I/O(mm)	751±5
Length(mm)	415.6
Mount	C
Weight(kg)	6.6
Field of View (mmxmm)	
1" IMX183 (13.13x8.76)	121.6x81.1
1.1" IMX253 (14.19x10.38)	131.4x96.1

DTCM111-216-AL



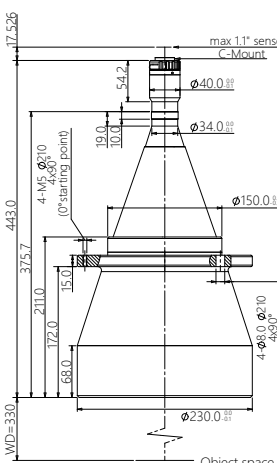
FOV(Φmm)	216
Mag.(x)	0.085
WD(mm)	372±5
Max Sensor Size(Φmm)	18.4(1.1")
F/#	6.2
MTF30(lp/mm)	>150
DOF(mm)	±60.9@F11
Distortion(% max)	<0.1
Telecentricity(° max)	<0.1
I/O(mm)	928±5
Length(mm)	538.4
Mount	C
Weight(kg)	13.9
Field of View (mmxmm)	
1" IMX183 (13.13x8.76)	154.5x103.1
1.1" IMX253 (14.19x10.38)	166.9x122.1

DTCM111-150-AL



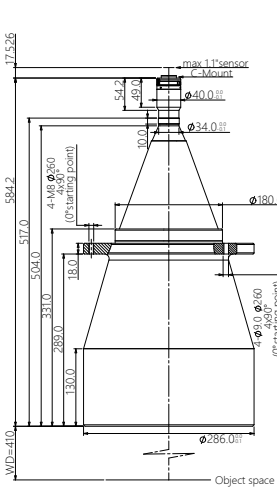
FOV(Φmm)	150
Mag.(x)	0.123
WD(mm)	300±5
Max Sensor Size(Φmm)	18.4(1.1")
F/#	6.2
MTF30(lp/mm)	>145
DOF(mm)	±29@F11
Distortion(% max)	<0.1
Telecentricity(° max)	<0.1
I/O(mm)	671±5
Length(mm)	353.7
Mount	C
Weight(kg)	5.8
Field of View (mmxmm)	
1" IMX183 (13.13x8.76)	106.7x71.2
1.1" IMX253 (14.19x10.38)	115.4x84.4

DTCM111-190-AL



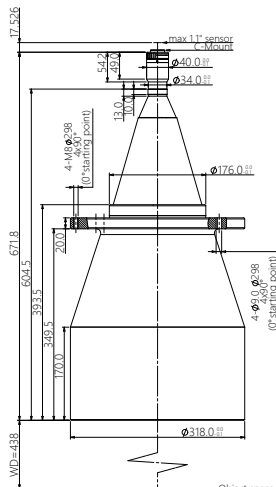
FOV(Φmm)	190
Mag.(x)	0.097
WD(mm)	330±5
Max Sensor Size(Φmm)	18.4(1.1")
F/#	6.2
MTF30(lp/mm)	>145
DOF(mm)	±46.7@F11
Distortion(% max)	<0.1
Telecentricity(° max)	<0.1
I/O(mm)	791±5
Length(mm)	443.0
Mount	C
Weight(kg)	11.2
Field of View (mmxmm)	
1" IMX183 (13.13x8.76)	135.4x90.3
1.1" IMX253 (14.19x10.38)	146.3x107.0

DTCM111-240H-AL



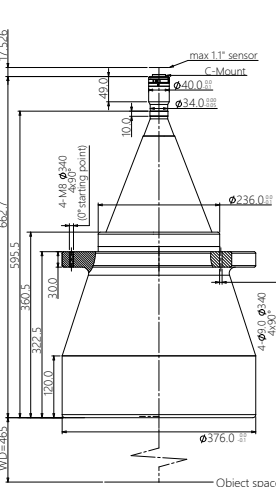
FOV(Φmm)	240
Mag.(x)	0.077
WD(mm)	410±6
Max Sensor Size(Φmm)	18.4(1.1")
F/#	6.2
MTF30(lp/mm)	>150
DOF(mm)	±109@F16
Distortion(% max)	<0.1
Telecentricity(° max)	<0.1
I/O(mm)	1012±6
Length(mm)	584.2
Mount	C
Weight(kg)	19.4
Field of View (mmxmm)	
1" IMX183 (13.13x8.76)	170.5x113.8
1.1" IMX253 (14.19x10.38)	184.3x134.8

DTCM111-268-AL



FOV(Φmm)	268
Mag.(x)	0.069
WD(mm)	438±6
Max Sensor Size(Φmm)	18.4(1.1")
F/#	6.2
MTF30(lp/mm)	>150
DOF(mm)	±92.4@F11
Distortion(% max)	<0.1
Telecentricity(° max)	<0.1
I/O(mm)	1127±6
Length(mm)	671.8
Mount	C
Weight(kg)	-
Field of View (mmxmm)	
1" IMX183 (13.13x8.76)	190.3x127.0
1.1" IMX253 (14.19x10.38)	205.7x150.4

DTCM111-300-AL



FOV(Φmm)	300
Mag.(x)	0.061
WD(mm)	465±6
Max Sensor Size(Φmm)	18.4(1.1")
F/#	6.2
MTF30(lp/mm)	>145
DOF(mm)	±118@F11
Distortion(% max)	<0.1
Telecentricity(° max)	<0.1
I/O(mm)	1145±6
Length(mm)	662.7
Mount	C
Weight(kg)	46.7
Field of View (mmxmm)	
1" IMX183 (13.13x8.76)	215.2x143.6
1.1" IMX253 (14.19x10.38)	232.6x170.2

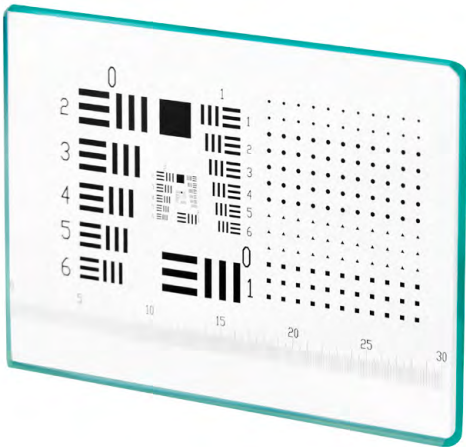
Essential Tool

USAF1951 resolution calibration plate

Description
Evaluate lens resolution directly.

Key advantage
International general test benchmarks.

Product pictures

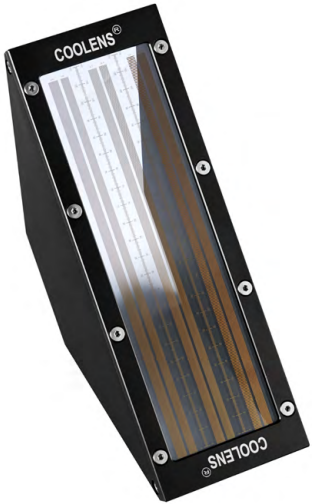


DOF test ruler

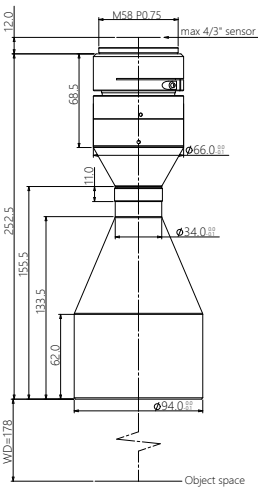
Description
1. Evaluate the DOF directly.
2. Read out the value directly without calculation.

Key advantage
DOF test ruler can standardize optical tolerance, It can accurately determine the target offset when an unacceptable image is produced.

Product pictures

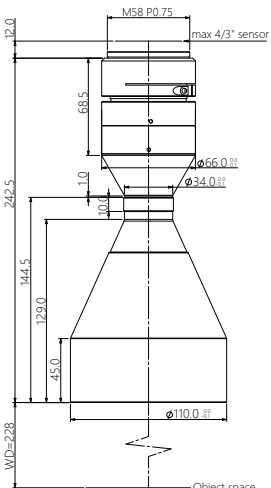


DTCM430-72-AL



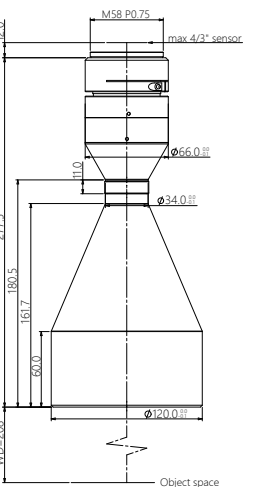
FOV(Φmm)	72
Mag.(x)	0.333
WD(mm)	178±3
Max Sensor Size(Φmm)	24(4/3")
F/#	7.5
MTF30(lp/mm)	>120
DOF(mm)	±5.7@F16
Distortion(% max)	<0.1
Telecentricity(" max)	<0.1
I/O(mm)	443±3
Length(mm)	252.5
Mount	M42/M48/M58
Weight(kg)	1.5
Field of View (mmxmm)	
4/3" Keyence 21M(17.86x14.32)	53.6x43.0
4/3" PYTHON 12K(18.43x13.82)	55.3x41.5
4/3" CMV8000(18.48x13.73)	55.5x41.2

DTCM430-80H-AL



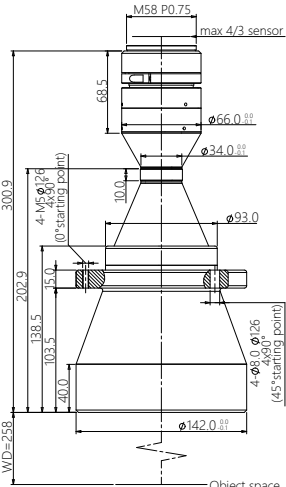
FOV(Φmm)	80
Mag.(x)	0.300
WD(mm)	228±4
Max Sensor Size(Φmm)	24(4/3")
F/#	7.5
MTF30(lp/mm)	>120
DOF(mm)	±7.1@F16
Distortion(% max)	<0.1
Telecentricity(" max)	<0.1
I/O(mm)	483±4
Length(mm)	242.5
Mount	M42/M48/M58
Weight(kg)	2.4
Field of View (mmxmm)	
4/3" Keyence 21M(17.86x14.32)	59.5x47.7
4/3" PYTHON 12K(18.43x13.82)	61.4x46.1
4/3" CMV8000(18.48x13.73)	61.6x45.8

DTCM430-90-AL



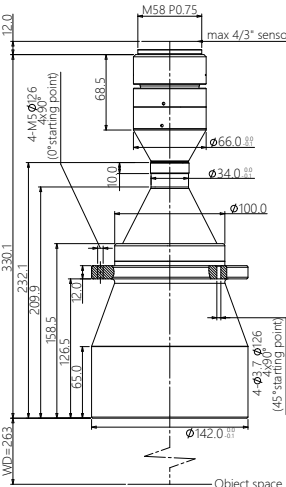
FOV(Φmm)	90
Mag.(x)	0.267
WD(mm)	208±3
Max Sensor Size(Φmm)	24(4/3")
F/#	7.5
MTF30(lp/mm)	>120
DOF(mm)	±9@F16
Distortion(% max)	<0.1
Telecentricity(" max)	<0.1
I/O(mm)	498±3
Length(mm)	277.5
Mount	M42/M48/M58
Weight(kg)	2.2
Field of View (mmxmm)	
4/3" Keyence 21M(17.86x14.32)	66.9x53.6
4/3" PYTHON 12K(18.43x13.82)	69.0x51.8
4/3" CMV8000(18.48x13.73)	69.2x51.4

DTCM430-100-AL



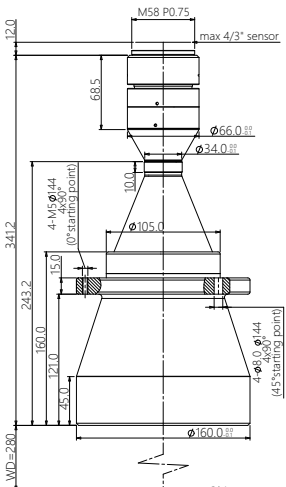
FOV(Φmm)	100
Mag.(x)	0.240
WD(mm)	258±4
Max Sensor Size(Φmm)	24(4/3")
F/#	9.4
MTF30(lp/mm)	>95
DOF(mm)	±13.8@F20
Distortion(% max)	<0.1
Telecentricity(" max)	<0.1
I/O(mm)	571±4
Length(mm)	300.9
Mount	M42/M48/M58
Weight(kg)	3.5
Field of View (mmxmm)	
4/3" Keyence 21M(17.86x14.32)	74.4x59.7
4/3" PYTHON 12K(18.43x13.82)	76.8x57.6
4/3" CMV8000(18.48x13.73)	77.0x57.2

DTCM430-110-AL



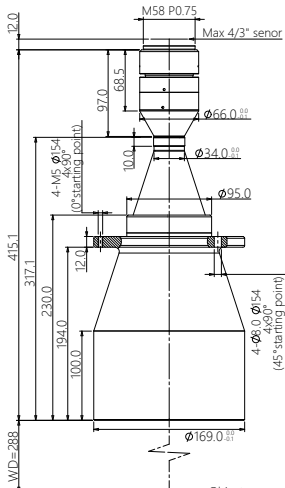
FOV(Φmm)	110
Mag.(x)	0.218
WD(mm)	263±4
Max Sensor Size(Φmm)	24(4/3")
F/#	7.5
MTF30(lp/mm)	>120
DOF(mm)	±13.5@F16
Distortion(% max)	<0.1
Telecentricity(" max)	<0.1
I/O(mm)	605±4
Length(mm)	330.1
Mount	M42/M48/M58
Weight(kg)	3.2
Field of View (mmxmm)	
4/3" Keyence 21M(17.86x14.32)	81.9x65.7
4/3" PYTHON 12K(18.43x13.82)	84.5x63.4
4/3" CMV8000(18.48x13.73)	84.8x63.0

DTCM430-120-AL



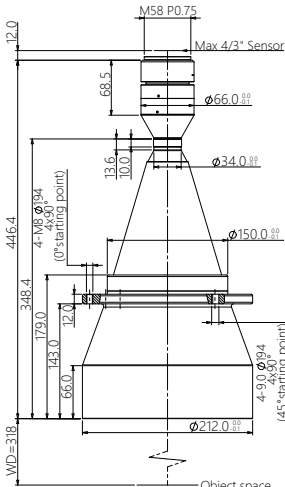
FOV(Φmm)	120
Mag.(x)	0.200
WD(mm)	280±5
Max Sensor Size(Φmm)	24(4/3")
F/#	8.1
MTF30(lp/mm)	>110
DOF(mm)	±16.0@F16
Distortion(% max)	<0.1
Telecentricity(" max)	<0.1
I/O(mm)	633±5
Length(mm)	341.2
Mount	M42/M48/M58
Weight(kg)	4.7
Field of View (mmxmm)	
4/3" Keyence 21M(17.86x14.32)	89.3x71.6
4/3" PYTHON 12K(18.43x13.82)	92.2x69.1
4/3" CMV8000(18.48x13.73)	92.4x68.7

DTCM430-136-AL



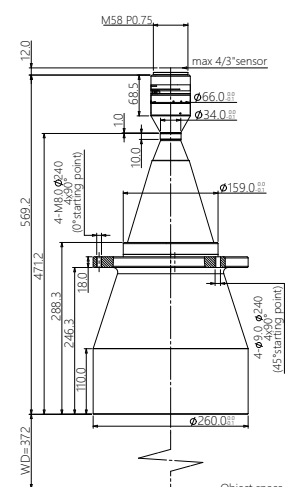
FOV(Φmm)	136
Mag.(x)	0.177
WD(mm)	288±5
Max Sensor Size(Φmm)	24(4/3")
F/#	7.5
MTF30(lp/mm)	>120
DOF(mm)	±20.4@F16
Distortion(% max)	<0.1
Telecentricity(" max)	<0.1
I/O(mm)	715±5
Length(mm)	415.1
Mount	M42/M48/M58
Weight(kg)	-
Field of View (mmxmm)	
4/3" Keyence 21M(17.86x14.32)	100.9x80.9
4/3" PYTHON 12K(18.43x13.82)	104.1x78.1
4/3" CMV8000(18.48x13.73)	104.4x77.6

DTCM430-170-AL



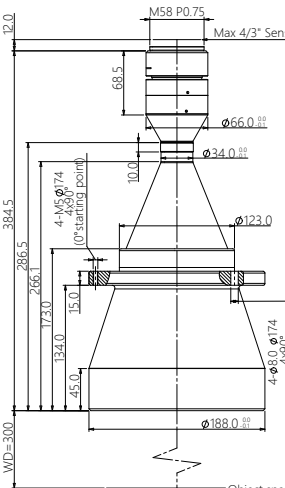
FOV(Φmm)	170
Mag.(x)	0.141
WD(mm)	318±5
Max Sensor Size(Φmm)	24(4/3")
F/#	7.5
MTF30(lp/mm)	>120
DOF(mm)	±32.2@F16
Distortion(% max)	<0.1
Telecentricity(" max)	<0.1
I/O(mm)	776±5
Length(mm)	446.4
Mount	M42/M48/M58
Weight(kg)	7.0
Field of View (mmxmm)	
4/3" Keyence 21M(17.86x14.32)	126.7x101.6
4/3" PYTHON 12K(18.43x13.82)	130.7x98.0
4/3" CMV8000(18.48x13.73)	131.1x97.4

DTCM430-216-AL



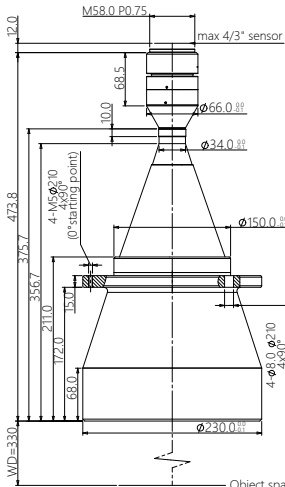
FOV(Φmm)	216
Mag.(x)	0.111
WD(mm)	372±5
Max Sensor Size(Φmm)	24(4/3")
F/#	7.5
MTF30(lp/mm)	>120
DOF(mm)	±51.9@F16
Distortion(% max)	<0.1
Telecentricity(" max)	<0.1
I/O(mm)	953±5
Length(mm)	569.2
Mount	M42/M48/M58
Weight(kg)	14.2
Field of View (mmxmm)	
4/3" Keyence 21M(17.86x14.32)	160.9x129.0
4/3" PYTHON 12K(18.43x13.82)	166.0x124.5
4/3" CMV8000(18.48x13.73)	166.5x123.7

DTCM430-150-AL



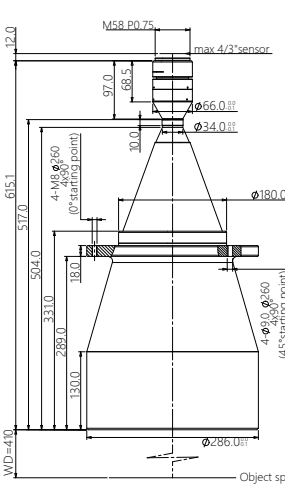
FOV(Φmm)	150
Mag.(x)	0.160
WD(mm)	300±5
Max Sensor Size(Φmm)	24(4/3")
F/#	8.1
MTF30(lp/mm)	>115
DOF(mm)	±25.0@F16
Distortion(% max)	<0.1
Telecentricity(" max)	<0.1
I/O(mm)	697±5
Length(mm)	384.5
Mount	M42/M48/M58
Weight(kg)	6.2
Field of View (mmxmm)	
4/3" Keyence 21M(17.86x14.32)	111.6x89.5
4/3" PYTHON 12K(18.43x13.82)	115.2x86.4
4/3" CMV8000(18.48x13.73)	115.5x85.8

DTCM430-190-AL



FOV(Φmm)	190
Mag.(x)	0.126
WD(mm)	330±5
Max Sensor Size(Φmm)	24(4/3")
F/#	7.5
MTF30(lp/mm)	>120
DOF(mm)	±40.3@F16
Distortion(% max)	<0.1
Telecentricity(" max)	<0.1
I/O(mm)	816±5
Length(mm)	473.8
Mount	M42/M48/M58
Weight(kg)	11.5
Field of View (mmxmm)	
4/3" Keyence 21M(17.86x14.32)	141.7x113.7
4/3" PYTHON 12K(18.43x13.82)	146.3x109.7
4/3" CMV8000(18.48x13.73)	146.7x109.0

DTCM430-240H-AL



FOV(Φmm)	240
Mag.(x)	0.100
WD(mm)	410±6
Max Sensor Size(Φmm)	24(4/3")
F/#	7.5
MTF30(lp/mm)	>115
DOF(mm)	±64@F16
Distortion(% max)	<0.1
Telecentricity(" max)	<0.1
I/O(mm)	1037±6
Length(mm)	615.1
Mount	M42/M48/M58
Weight(kg)	19.8
Field of View (mmxmm)	
4/3" Keyence 21M(17.86x14.32)	178.6x143.2
4/3" PYTHON 12K(18.43x13.82)	184.3x138.2
4/3" CMV8000(18.48x13.73)	184.8x137.3

DTCA Series
Bi-Telecentric Lens
with Iris and Coaxial Light

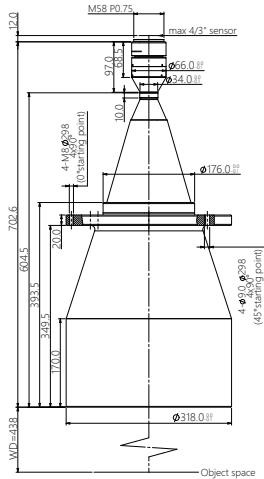
WWK Series
Telecentric Lens for
AOI Inspection

DTCM Series
Bi-Telecentric Lens

WWH Series
Megapixel Object Side
Telecentric Lens

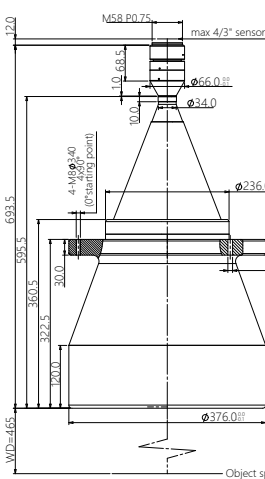
WWL Series
Standard Fixed
Magnification Lens

DTCM430-268-AL



FOV(Φmm)	268
Mag.(x)	0.090
WD(mm)	438±6
Max Sensor Size(Φmm)	24(4/3")
F/#	7.5
MTF30(lp/mm)	>120
DOF(mm)	±79@F16
Distortion(% max)	<0.1
Telecentricity(" max)	<0.1
I/O(mm)	1153±6
Length(mm)	702.6
Mount	M42/M48/M58
Weight(kg)	-
Field of View (mmxmm)	
4/3" Keyence 21M(17.86x14.32)	198.4x159.1
4/3" PYTHON 12K(18.43x13.82)	204.8x153.6
4/3" CMV8000(18.48x13.73)	205.3x152.6

DTCM430-300-AL



FOV(Φmm)	300
Mag.(x)	0.080
WD(mm)	465±6
Max Sensor Size(Φmm)	24(4/3")
F/#	7.5
MTF30(lp/mm)	>115
DOF(mm)	±100@F16
Distortion(% max)	<0.1
Telecentricity(" max)	<0.1
I/O(mm)	1171±6
Length(mm)	693.5
Mount	M42/M48/M58
Weight(kg)	47.0
Field of View (mmxmm)	
4/3" Keyence 21M(17.86x14.32)	223.3x179.0
4/3" PYTHON 12K(18.43x13.82)	230.4x172.8
4/3" CMV8000(18.48x13.73)	231.0x171.6

Recommended products

4/3" 20Mp FA lens

Model: MFA430

Description

Best imaging quality, low illumination, large aperture, distortion less than 1%, range of aggregation ranges from 0.1 to infinity, aperture adjustable, high relative illumination, small volume. The focusing ring can be assembled while using the lens and camera to reduce the minimum focal distance.

Key advantage

Focal length options: 12mm、16mm、25mm、 35mm、50mm、75mm.

Product pictures



MFA3-430-20M35

DTCM175 Series

Support 1.75"

Cameras



Lens Model	FOV (Φmm)	Mag. β(x)	WD (mm)	Sensor Size (Φmm)	F/#	MTF30 (lp/mm)	DOF (mm)	Distortion (% max)	Telecentricity (° max)	I/O (mm)	Length (mm)	Mount	Weight (kg)
DTCM175-26-AL	26	1.115	73±1	29(1.75")	15.0	>50	±0.6@F20	<0.1	<0.1	274±1	189.2	M42/M48/ M58	0.8
DTCM175-36-AL	36	0.806	110±2	29(1.75")	13.5	>60	±1.2@F20	<0.1	<0.1	331±2	209.3	M42/M48/ M58	1.0
DTCM175-42-AL	42	0.690	118±3	29(1.75")	11.4	>70	±1.6@F20	<0.1	<0.1	325±3	194.8	M42/M48/ M58	0.9
DTCM175-48-AL	48	0.604	128±3	29(1.75")	11.3	>70	±2.2@F20	<0.1	<0.1	348±3	208.3	M42/M48/ M58	1.0
DTCM175-56-AL	56	0.518	138±3	29(1.75")	9.7	>85	±3.0@F20	<0.1	<0.1	381±3	230.8	M42/M48/ M58	1.2
DTCM175-64H-AL	64	0.453	158±3	29(1.75")	8.5	>100	±3.1@F16	<0.1	<0.1	413±3	243.3	M42/M48/ M58	1.4
DTCM175-72-AL	72	0.403	178±3	29(1.75")	8.5	>105	±3.9@F16	<0.1	<0.1	453±3	263.3	M42/M48/ M58	1.6
DTCM175-80H-AL	80	0.363	228±4	29(1.75")	6.8	>130	±4.9@F16	<0.1	<0.1	493±4	253.3	M42/M48/ M58	2.4
DTCM175-90-AL	90	0.322	208±3	29(1.75")	8.5	>100	±6.1@F16	<0.1	<0.1	508±3	288.3	M42/M48/ M58	2.2
DTCM175-100-AL	100	0.290	258±4	29(1.75")	11.3	>70	±9.5@F20	<0.1	<0.1	582±4	311.6	M42/M48/ M58	3.6
DTCM175-110-AL	110	0.264	263±4	29(1.75")	6.8	>120	±9.2@F16	<0.1	<0.1	616±4	340.9	M42/M48/ M58	3.2
DTCM175-120-AL	120	0.242	280±5	29(1.75")	9.7	>90	±13.6@F20	<0.1	<0.1	644±5	352.0	M42/M48/ M58	4.7
DTCM175-136-AL	136	0.213	288±5	29(1.75")	6.8	>125	±14.1@F16	<0.1	<0.1	726±5	425.8	M42/M48/ M58	-
DTCM175-150-AL	150	0.193	300±5	29(1.75")	9.7	>90	±21.5@F20	<0.1	<0.1	707±5	395.2	M42/M48/ M58	6.2
DTCM175-170-AL	170	0.171	318±5	29(1.75")	6.8	>125	±21.9@F16	<0.1	<0.1	787±5	457.2	M42/M48/ M58	7.0
DTCM175-190-AL	190	0.153	330±5	29(1.75")	6.8	>130	±27.3@F16	<0.1	<0.1	827±5	484.5	M42/M48/ M58	11.5
DTCM175-216-AL	216	0.134	372±5	29(1.75")	6.8	>125	±35.6@F16	<0.1	<0.1	964±5	579.9	M42/M48/ M58	14.3
DTCM175-240H-AL	240	0.121	410±6	29(1.75")	6.8	>125	±43.7@F16	<0.1	<0.1	1048±6	625.8	M42/M48/ M58	19.8
DTCM175-268-AL	268	0.108	438±6	29(1.75")	6.8	>130	±54.9@F16	<0.1	<0.1	1163±6	713.3	M42/M48/ M58	-
DTCM175-300-AL	300	0.097	465±6	29(1.75")	8.5	>105	±68@F16	<0.1	<0.1	1181±6	704.3	M42/M48/ M58	47.1

DTCA Series
Bi-Telecentric Lens
with Iris and Coaxial Light

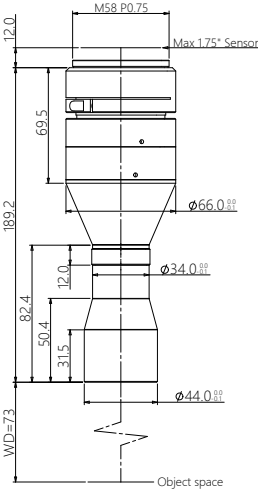
WWK Series
Telecentric Lens for
AOI Inspection

DTCM Series
Bi-Telecentric Lens

WWH Series
Megapixel Object Side
Telecentric Lens

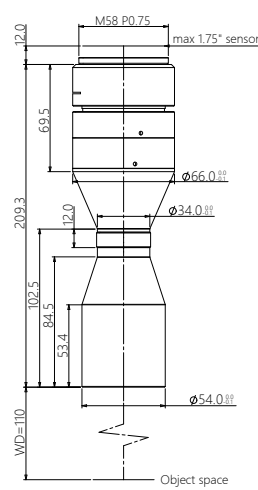
WWL Series
Standard Fixed
Magnification Lens

DTCM175-26-AL



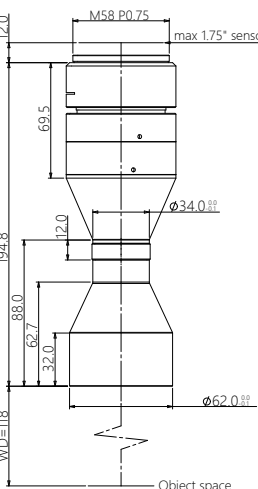
FOV(Φmm)	26
Mag.(x)	1.115
WD(mm)	73±1
Max Sensor Size(Φmm)	29(1.75")
F/#	15.0
MTF30(lp/mm)	>50
DOF(mm)	±0.6@F20
Distortion(% max)	<0.1
Telecentricity(" max)	<0.1
I/O(mm)	274±1
Length(mm)	189.2
Mount	M42/M48/M58
Weight(kg)	0.8
Field of View (mmxmm)	
1.75" CMV12000(22.53x16.90)	20.2x15.2
1.75" PYTHON16k(18.43x18.43)	16.5x16.5
1.75" LineScan-4k(28.8mm)	25.8

DTCM175-36-AL



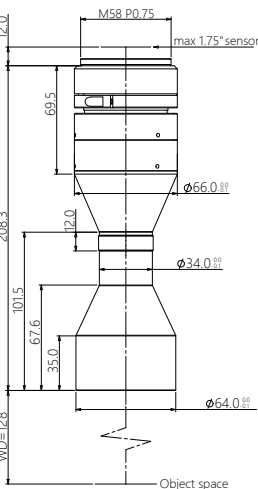
FOV(Φmm)	36
Mag.(x)	0.806
WD(mm)	110±2
Max Sensor Size(Φmm)	29(1.75")
F/#	13.5
MTF30(lp/mm)	>60
DOF(mm)	±1.2@F20
Distortion(% max)	<0.1
Telecentricity(" max)	<0.1
I/O(mm)	331±2
Length(mm)	209.3
Mount	M42/M48/M58
Weight(kg)	1.0
Field of View (mmxmm)	
1.75" CMV12000(22.53x16.90)	28.0x21.0
1.75" PYTHON16k(18.43x18.43)	22.9x22.9
1.75" LineScan-4k(28.8mm)	35.7

DTCM175-42-AL



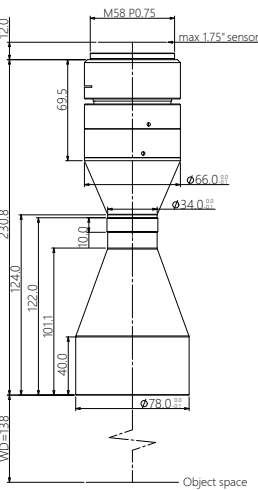
FOV(Φmm)	42
Mag.(x)	0.690
WD(mm)	118±3
Max Sensor Size(Φmm)	29(1.75")
F/#	11.4
MTF30(lp/mm)	>70
DOF(mm)	±1.6@F20
Distortion(% max)	<0.1
Telecentricity(" max)	<0.1
I/O(mm)	325±3
Length(mm)	194.8
Mount	M42/M48/M58
Weight(kg)	0.9
Field of View (mmxmm)	
1.75" CMV12000(22.53x16.90)	32.7x24.5
1.75" PYTHON16k(18.43x18.43)	26.7x26.7
1.75" LineScan-4k(28.8mm)	41.7

DTCM175-48-AL



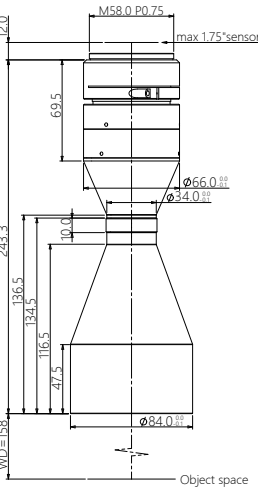
FOV(Φmm)	48
Mag.(x)	0.604
WD(mm)	128±3
Max Sensor Size(Φmm)	29(1.75")
F/#	11.3
MTF30(lp/mm)	>70
DOF(mm)	±2.2@F20
Distortion(% max)	<0.1
Telecentricity(" max)	<0.1
I/O(mm)	348±3
Length(mm)	208.3
Mount	M42/M48/M58
Weight(kg)	1.0
Field of View (mmxmm)	
1.75" CMV12000(22.53x16.90)	37.3x28.0
1.75" PYTHON16k(18.43x18.43)	30.5x30.5
1.75" LineScan-4k(28.8mm)	47.7

DTCM175-56-AL



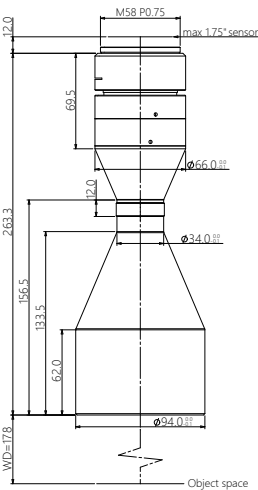
FOV(Φmm)	56
Mag.(x)	0.518
WD(mm)	138±3
Max Sensor Size(Φmm)	29(1.75")
F/#	9.7
MTF30(lp/mm)	>85
DOF(mm)	±3.0@F20
Distortion(% max)	<0.1
Telecentricity(" max)	<0.1
I/O(mm)	381±3
Length(mm)	230.8
Mount	M42/M48/M58
Weight(kg)	1.2
Field of View (mmxmm)	
1.75" CMV12000(22.53x16.90)	43.5x32.6
1.75" PYTHON16k(18.43x18.43)	35.6x35.6
1.75" LineScan-4k(28.8mm)	55.6

DTCM175-64H-AL



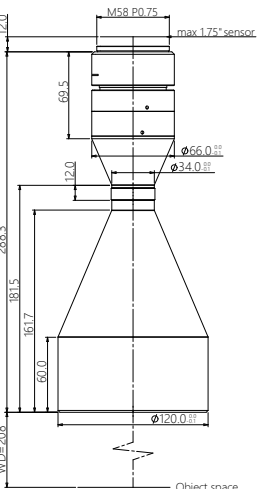
FOV(Φmm)	64
Mag.(x)	0.453
WD(mm)	158±3
Max Sensor Size(Φmm)	29(1.75")
F/#	8.5
MTF30(lp/mm)	>100
DOF(mm)	±3.1@F16
Distortion(% max)	<0.1
Telecentricity(" max)	<0.1
I/O(mm)	413±3
Length(mm)	243.3
Mount	M42/M48/M58
Weight(kg)	1.4
Field of View (mmxmm)	
1.75" CMV12000(22.53x16.90)	49.7x37.3
1.75" PYTHON16k(18.43x18.43)	40.7x40.7
1.75" LineScan-4k(28.8mm)	63.6

DTCM175-72-AL



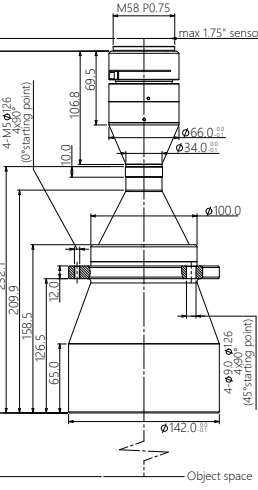
FOV(Φmm)	72
Mag.(x)	0.403
WD(mm)	178±3
Max Sensor Size(Φmm)	29(1.75")
F/#	8.5
MTF30(lp/mm)	>105
DOF(mm)	±3.9@F16
Distortion(% max)	<0.1
Telecentricity(" max)	<0.1
I/O(mm)	453±3
Length(mm)	263.3
Mount	M42/M48/M58
Weight(kg)	1.6
Field of View (mmxmm)	
1.75" CMV12000(22.53x16.90)	55.9x41.9
1.75" PYTHON16k(18.43x18.43)	45.7x45.7
1.75" LineScan-4k(28.8mm)	71.5

DTCM175-90-AL



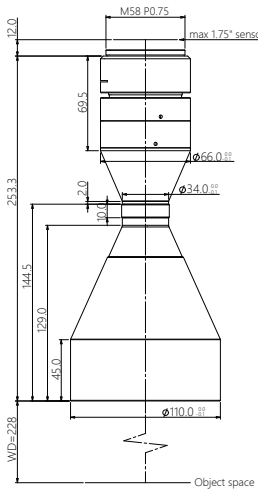
FOV(Φmm)	90
Mag.(x)	0.322
WD(mm)	208±3
Max Sensor Size(Φmm)	29(1.75")
F/#	8.5
MTF30(lp/mm)	>100
DOF(mm)	±6.1@F16
Distortion(% max)	<0.1
Telecentricity(" max)	<0.1
I/O(mm)	508±3
Length(mm)	288.3
Mount	M42/M48/M58
Weight(kg)	2.2
Field of View (mmxmm)	
1.75" CMV12000(22.53x16.90)	70.0x52.5
1.75" PYTHON16k(18.43x18.43)	57.2x57.2
1.75" LineScan-4k(28.8mm)	89.4

DTCM175-110-AL



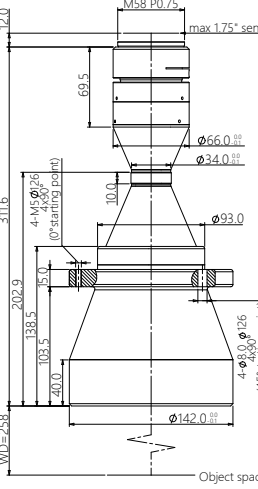
FOV(Φmm)	110
Mag.(x)	0.264
WD(mm)	263±4
Max Sensor Size(Φmm)	29(1.75")
F/#	6.8
MTF30(lp/mm)	>120
DOF(mm)	±9.2@F16
Distortion(% max)	<0.1
Telecentricity(" max)	<0.1
I/O(mm)	616±4
Length(mm)	340.9
Mount	M42/M48/M58
Weight(kg)	3.2
Field of View (mmxmm)	
1.75" CMV12000(22.53x16.90)	85.3x64.0
1.75" PYTHON16k(18.43x18.43)	69.8x69.8
1.75" LineScan-4k(28.8mm)	109.1

DTCM175-80H-AL



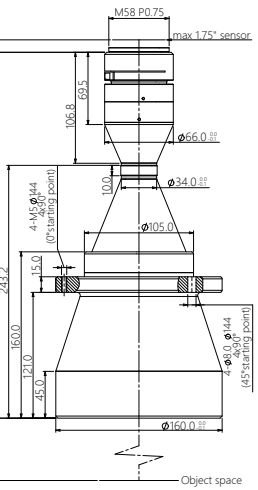
FOV(Φmm)	80
Mag.(x)	0.363
WD(mm)	228±4
Max Sensor Size(Φmm)	29(1.75")
F/#	6.8
MTF30(lp/mm)	>130
DOF(mm)	±4.9@F16
Distortion(% max)	<0.1
Telecentricity(" max)	<0.1
I/O(mm)	493±4
Length(mm)	253.3
Mount	M42/M48/M58
Weight(kg)	2.4
Field of View (mmxmm)	
1.75" CMV12000(22.53x16.90)	62.1x46.6
1.75" PYTHON16k(18.43x18.43)	50.8x50.8
1.75" LineScan-4k(28.8mm)	79.3

DTCM175-100-AL



FOV(Φmm)	100
Mag.(x)	0.290
WD(mm)	258±4
Max Sensor Size(Φmm)	29(1.75")
F/#	11.3
MTF30(lp/mm)	>70
DOF(mm)	±9.5@F20
Distortion(% max)	<0.1
Telecentricity(" max)	<0.1
I/O(mm)	582±4
Length(mm)	311.6
Mount	M42/M48/M58
Weight(kg)	3.6
Field of View (mmxmm)	
1.75" CMV12000(22.53x16.90)	77.7x58.3
1.75" PYTHON16k(18.43x18.43)	63.6x63.6
1.75" LineScan-4k(28.8mm)	99.3

DTCM175-120-AL



FOV(Φmm)	120
Mag.(x)	0.242
WD(mm)	280±5
Max Sensor Size(Φmm)	29(1.75")
F/#	9.7
MTF30(lp/mm)	>90
DOF(mm)	±13.6@F20
Distortion(% max)	<0.1
Telecentricity(" max)	<0.1
I/O(mm)	644±5
Length(mm)	352.0
Mount	M42/M48/M58
Weight(kg)	4.7
Field of View (mmxmm)	
1.75" CMV12000(22.53x16.90)	93.1x69.8
1.75" PYTHON16k(18.43x18.43)	76.2x76.2
1.75" LineScan-4k(28.8mm)	119.0

DTCA Series
Bi-Telecentric Lens
with Iris and Coaxial Light

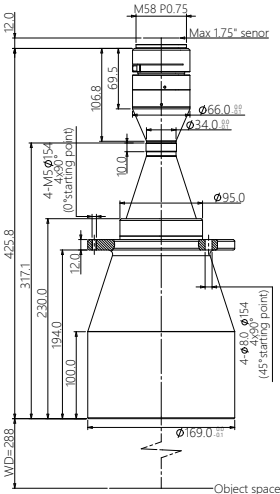
WWK Series
Telecentric Lens for
AOI Inspection

DTCM Series
Bi-Telecentric Lens

WWH Series
Megapixel Object Side
Telecentric Lens

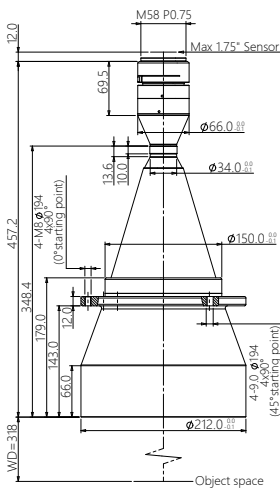
WWL Series
Standard Fixed
Magnification Lens

DTCM175-136-AL



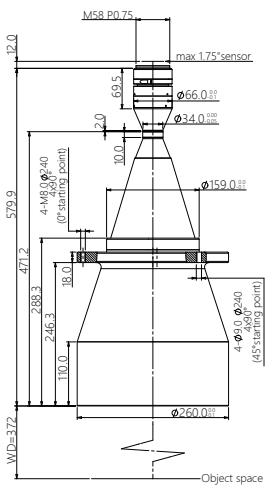
FOV(Φmm)	136
Mag.(x)	0.213
WD(mm)	288±5
Max Sensor Size(Φmm)	29(1.75")
F/#	6.8
MTF30(lp/mm)	>125
DOF(mm)	±14.1@F16
Distortion(% max)	<0.1
Telecentricity(" max)	<0.1
I/O(mm)	726±5
Length(mm)	425.8
Mount	M42/M48/M58
Weight(kg)	-
Field of View (mmxmm)	
1.75" CMV12000(22.53x16.90)	105.8x79.3
1.75" PYTHON16k(18.43x18.43)	86.5x86.5
1.75" LineScan-4k(28.8mm)	135.2

DTCM175-170-AL



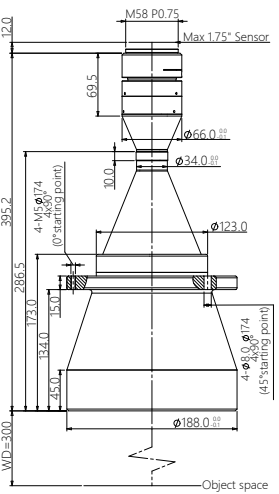
FOV(Φmm)	170
Mag.(x)	0.171
WD(mm)	318±5
Max Sensor Size(Φmm)	29(1.75")
F/#	6.8
MTF30(lp/mm)	>125
DOF(mm)	±21.9@F16
Distortion(% max)	<0.1
Telecentricity(" max)	<0.1
I/O(mm)	787±5
Length(mm)	457.2
Mount	M42/M48/M58
Weight(kg)	7.0
Field of View (mmxmm)	
1.75" CMV12000(22.53x16.90)	131.8x98.8
1.75" PYTHON16k(18.43x18.43)	107.8x107.8
1.75" LineScan-4k(28.8mm)	168.4

DTCM175-216-AL



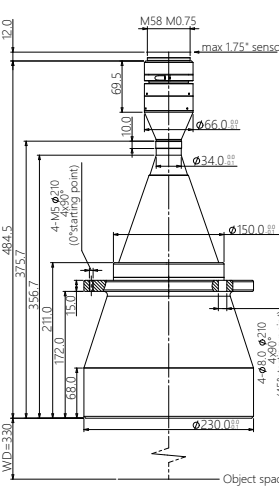
FOV(Φmm)	216
Mag.(x)	0.134
WD(mm)	372±5
Max Sensor Size(Φmm)	29(1.75")
F/#	6.8
MTF30(lp/mm)	>125
DOF(mm)	±35.6@F16
Distortion(% max)	<0.1
Telecentricity(" max)	<0.1
I/O(mm)	964±5
Length(mm)	579.9
Mount	M42/M48/M58
Weight(kg)	14.3
Field of View (mmxmm)	
1.75" CMV12000(22.53x16.90)	168.1x126.1
1.75" PYTHON16k(18.43x18.43)	137.5x137.5
1.75" LineScan-4k(28.8mm)	214.9

DTCM175-150-AL



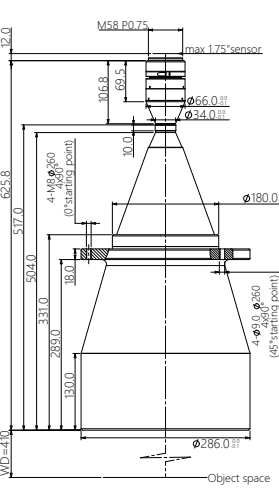
FOV(Φmm)	150
Mag.(x)	0.193
WD(mm)	300±5
Max Sensor Size(Φmm)	29(1.75")
F/#	9.7
MTF30(lp/mm)	>90
DOF(mm)	±21.5@F20
Distortion(% max)	<0.1
Telecentricity(" max)	<0.1
I/O(mm)	707±5
Length(mm)	395.2
Mount	M42/M48/M58
Weight(kg)	6.2
Field of View (mmxmm)	
1.75" CMV12000(22.53x16.90)	116.7x87.6
1.75" PYTHON16k(18.43x18.43)	95.5x95.5
1.75" LineScan-4k(28.8mm)	149.2

DTCM175-190-AL



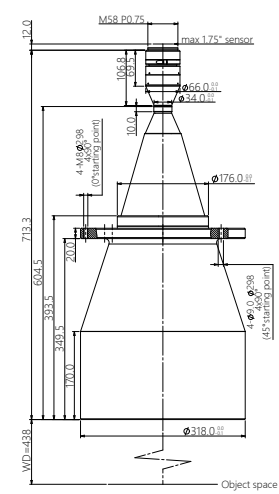
FOV(Φmm)	190
Mag.(x)	0.153
WD(mm)	330±5
Max Sensor Size(Φmm)	29(1.75")
F/#	6.8
MTF30(lp/mm)	>130
DOF(mm)	±27.3@F16
Distortion(% max)	<0.1
Telecentricity(" max)	<0.1
I/O(mm)	827±5
Length(mm)	484.5
Mount	M42/M48/M58
Weight(kg)	11.5
Field of View (mmxmm)	
1.75" CMV12000(22.53x16.90)	147.3x110.5
1.75" PYTHON16k(18.43x18.43)	120.5x120.5
1.75" LineScan-4k(28.8mm)	188.2

DTCM175-240H-AL



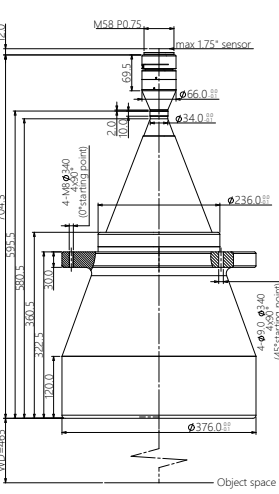
FOV(Φmm)	240
Mag.(x)	0.121
WD(mm)	410±6
Max Sensor Size(Φmm)	29(1.75")
F/#	6.8
MTF30(lp/mm)	>125
DOF(mm)	±43.7@F16
Distortion(% max)	<0.1
Telecentricity(" max)	<0.1
I/O(mm)	1048±6
Length(mm)	625.8
Mount	M42/M48/M58
Weight(kg)	19.8
Field of View (mmxmm)	
1.75" CMV12000(22.53x16.90)	186.2x139.7
1.75" PYTHON16k(18.43x18.43)	152.3x152.3
1.75" LineScan-4k(28.8mm)	238.0

DTCM175-268-AL



FOV(Φmm)	268
Mag.(x)	0.108
WD(mm)	438±6
Max Sensor Size(Φmm)	29(1.75")
F/#	6.8
MTF30(lp/mm)	>130
DOF(mm)	±54.9@F16
Distortion(% max)	<0.1
Telecentricity(" max)	<0.1
I/O(mm)	1163±6
Length(mm)	713.3
Mount	M42/M48/M58
Weight(kg)	-
Field of View (mmxmm)	
1.75" CMV12000(22.53x16.90)	208.6x156.5
1.75" PYTHON16k(18.43x18.43)	170.6x170.6
1.75" LineScan-4k(28.8mm)	266.7

DTCM175-300-AL



FOV(Φmm)	300
Mag.(x)	0.097
WD(mm)	465±6
Max Sensor Size(Φmm)	29(1.75")
F/#	8.5
MTF30(lp/mm)	>105
DOF(mm)	±68@F16
Distortion(% max)	<0.1
Telecentricity(" max)	<0.1
I/O(mm)	1181±6
Length(mm)	704.3
Mount	M42/M48/M58
Weight(kg)	47.1
Field of View (mmxmm)	
1.75" CMV12000(22.53x16.90)	232.3x174.2
1.75" PYTHON16k(18.43x18.43)	190.0x190.0
1.75" LineScan-4k(28.8mm)	296.9

Recommended products

Large FOV Industrial Lens(Line Scan Lens)

Introduction

Large FOV, high resolution, low distortion industrial lens, widely used in AOI applications and cases.

Key advantage

Support 16K/5μm, 16K/3.5μm sensor, magnification from 0.1 to 3.3x, full range of products.

Product pictures



Line scan lens-16K 5μ/3.5μ

Line scan lens- low mag-nification

Line scan lens- Vertical coaxial

DTCM210 Series

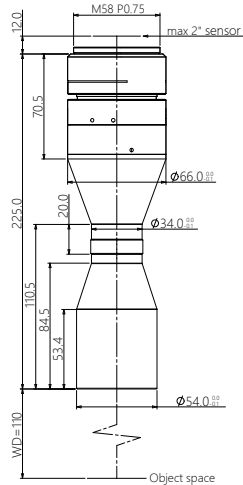
Support 2"

Cameras



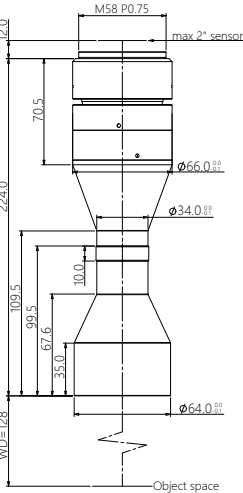
Lens Model	FOV (Φmm)	Mag. β(x)	WD (mm)	Sensor Size (Φmm)	F/#	MTF30 (lp/mm)	DOF (mm)	Distortion (% max)	Telecentricity (° max)	I/O (mm)	Length (mm)	Mount	Weight (kg)
DTCM210-36-AL	36	0.917	110±2	33(2")	15.5	>50	±0.9@F20	<0.1	<0.1	347±2	225.0	M42/M48/M58	1.0
DTCM210-42-AL	42	0.786	118±3	33(2")	12.9	>65	±1.2@F20	<0.1	<0.1	341±3	210.5	M42/M48/M58	1.0
DTCM210-48-AL	48	0.688	128±3	33(2")	12.9	>60	±1.7@F20	<0.1	<0.1	364±3	224.0	M42/M48/M58	1.0
DTCM210-56-AL	56	0.589	138±3	33(2")	11.1	>75	±2.3@F20	<0.1	<0.1	397±3	246.5	M42/M48/M58	1.3
DTCM210-64H-AL	64	0.516	158±3	33(2")	9.7	>90	±3.3@F22	<0.1	<0.1	429±3	259.0	M42/M48/M58	1.4
DTCM210-72-AL	72	0.458	178±3	33(2")	9.7	>90	±3.8@F20	<0.1	<0.1	469±3	279.0	M42/M48/M58	1.6
DTCM210-80H-AL	80	0.413	228±4	33(2")	7.8	>110	±3.8@F16	<0.1	<0.1	509±4	269.0	M42/M48/M58	2.5
DTCM210-90-AL	90	0.367	208±3	33(2")	8.6	>100	±4.7@F16	<0.1	<0.1	524±3	304.0	M42/M48/M58	2.3
DTCM210-100-AL	100	0.330	258±4	33(2")	12.9	>60	±7.3@F20	<0.1	<0.1	597±4	327.3	M42/M48/M58	3.6
DTCM210-110-AL	110	0.300	263±4	33(2")	7.8	>110	±7.1@F16	<0.1	<0.1	632±4	356.6	M42/M48/M58	3.3
DTCM210-120-AL	120	0.275	280±5	33(2")	11.1	>80	±10.5@F20	<0.1	<0.1	660±5	367.7	M42/M48/M58	4.8
DTCM210-136-AL	136	0.243	288±5	33(2")	7.8	>110	±10.8@F16	<0.1	<0.1	742±5	441.5	M42/M48/M58	-
DTCM210-150-AL	150	0.220	300±5	33(2")	11.1	>80	±16.5@F20	<0.1	<0.1	723±5	410.9	M42/M48/M58	6.3
DTCM210-170-AL	170	0.194	318±5	33(2")	7.8	>110	±17.0@F16	<0.1	<0.1	803±5	472.9	M42/M48/M58	7.1
DTCM210-190-AL	190	0.174	330±5	33(2")	7.8	>115	±21.1@F16	<0.1	<0.1	842±5	500.2	M42/M48/M58	11.6
DTCM210-216-AL	216	0.153	372±5	33(2")	7.8	>115	±27.3@F16	<0.1	<0.1	980±5	595.6	M42/M48/M58	14.3
DTCM210-240H-AL	240	0.138	410±6	33(2")	7.8	>110	±33.9@F16	<0.1	<0.1	1064±6	641.5	M42/M48/M58	19.8
DTCM210-268-AL	268	0.123	438±6	33(2")	7.8	>115	±42.3@F16	<0.1	<0.1	1179±6	729.0	M42/M48/M58	-
DTCM210-300-AL	300	0.110	465±6	33(2")	7.8	>115	±52.8@F16	<0.1	<0.1	1197±6	720.0	M42/M48/M58	47.1

DTCM210-36-AL



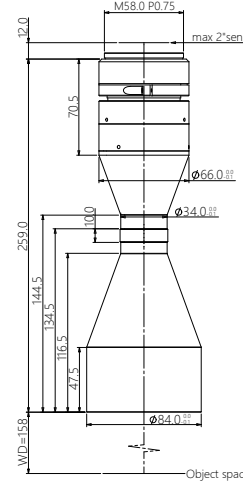
FOV(Φmm)	36
Mag.(x)	0.917
WD(mm)	110±2
Max Sensor Size(Φmm)	33(2")
F/#	15.5
MTF30(lp/mm)	>50
DOF(mm)	±0.9@F20
Distortion(% max)	<0.1
Telecentricity(° max)	<0.1
I/O(mm)	347±2
Length(mm)	225.0
Mount	M42/M48/M58
Weight(kg)	1.0
Field of View (mmxmm)	
2" DALSA 12M(24.58x18.43)	26.8x20.1
2" PYTHON 25K(23.04x23.04)	25.1x25.1

DTCM210-48-AL



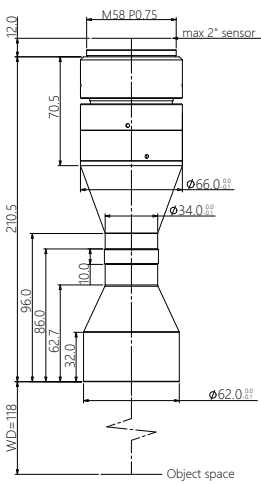
FOV(Φmm)	48
Mag.(x)	0.688
WD(mm)	128±3
Max Sensor Size(Φmm)	33(2")
F/#	12.9
MTF30(lp/mm)	>60
DOF(mm)	±1.7@F20
Distortion(% max)	<0.1
Telecentricity(° max)	<0.1
I/O(mm)	364±3
Length(mm)	224.0
Mount	M42/M48/M58
Weight(kg)	1.0
Field of View (mmxmm)	
2" DALSA 12M(24.58x18.43)	35.7x26.8
2" PYTHON 25K(23.04x23.04)	33.5x33.5

DTCM210-64H-AL



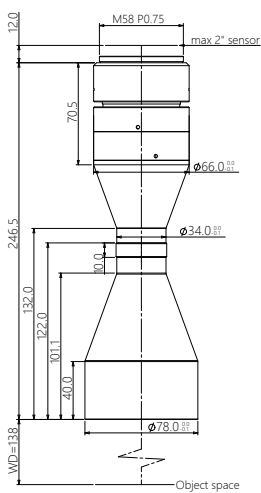
FOV(Φmm)	64
Mag.(x)	0.516
WD(mm)	158±3
Max Sensor Size(Φmm)	33(2")
F/#	9.7
MTF30(lp/mm)	>90
DOF(mm)	±3.3@F22
Distortion(% max)	<0.1
Telecentricity(° max)	<0.1
I/O(mm)	429±3
Length(mm)	259.0
Mount	M42/M48/M58
Weight(kg)	1.4
Field of View (mmxmm)	
2" DALSA 12M(24.58x18.43)	47.6x35.7
2" PYTHON 25K(23.04x23.04)	44.7x44.7

DTCM210-42-AL



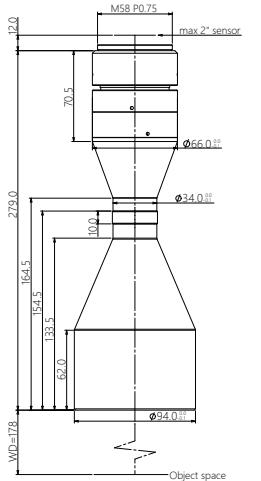
FOV(Φmm)	42
Mag.(x)	0.786
WD(mm)	118±3
Max Sensor Size(Φmm)	33(2")
F/#	12.9
MTF30(lp/mm)	>65
DOF(mm)	±1.2@F20
Distortion(% max)	<0.1
Telecentricity(° max)	<0.1
I/O(mm)	341±3
Length(mm)	210.5
Mount	M42/M48/M58
Weight(kg)	1.0
Field of View (mmxmm)	
2" DALSA 12M(24.58x18.43)	31.3x23.4
2" PYTHON 25K(23.04x23.04)	29.3x29.3

DTCM210-56-AL



FOV(Φmm)	56
Mag.(x)	0.589
WD(mm)	138±3
Max Sensor Size(Φmm)	33(2")
F/#	11.1
MTF30(lp/mm)	>75
DOF(mm)	±2.3@F20
Distortion(% max)	<0.1
Telecentricity(° max)	<0.1
I/O(mm)	397±3
Length(mm)	246.5
Mount	M42/M48/M58
Weight(kg)	1.3
Field of View (mmxmm)	
2" DALSA 12M(24.58x18.43)	41.7x31.3
2" PYTHON 25K(23.04x23.04)	39.1x39.1

DTCM210-72-AL



FOV(Φmm)	72
Mag.(x)	0.458
WD(mm)	178±3
Max Sensor Size(Φmm)	33(2")
F/#	9.7
MTF30(lp/mm)	>90
DOF(mm)	±3.8@F20
Distortion(% max)	<0.1
Telecentricity(° max)	<0.1
I/O(mm)	469±3
Length(mm)	279.0
Mount	M42/M48/M58
Weight(kg)	1.6
Field of View (mmxmm)	
2" DALSA 12M(24.58x18.43)	53.7x40.2
2" PYTHON 25K(23.04x23.04)	50.3x50.3

DTCA Series
Bi-Telecentric Lens
with Iris and Coaxial Light

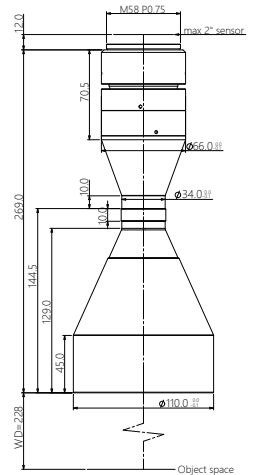
WWK Series
Telecentric Lens for
AOI Inspection

DTCM Series
Bi-Telecentric Lens

WWH Series
Megapixel Object Side
Telecentric Lens

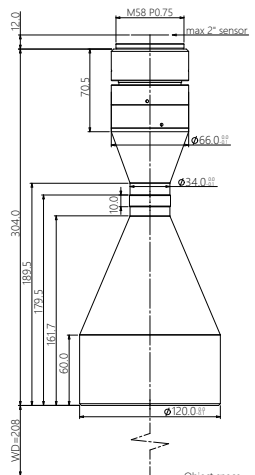
WWL Series
Standard Fixed
Magnification Lens

DTCM210-80H-AL



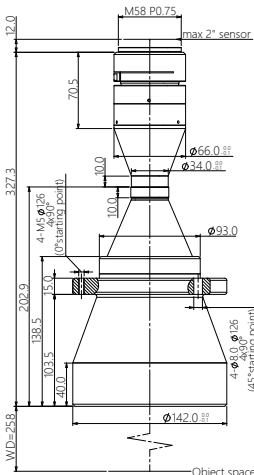
FOV(Φmm)	80
Mag.(x)	0.413
WD(mm)	228±4
Max Sensor Size(Φmm)	33(2")
F/#	7.8
MTF30(lp/mm)	>110
DOF(mm)	±3.8@F16
Distortion(% max)	<0.1
Telecentricity(" max)	<0.1
I/O(mm)	509±4
Length(mm)	269.0
Mount	M42/M48/M58
Weight(kg)	2.5
Field of View (mmxmm)	
2" DALSA 12M(24.58x18.43)	59.5x44.6
2" PYTHON 25K(23.04x23.04)	55.8x55.8

DTCM210-90-AL



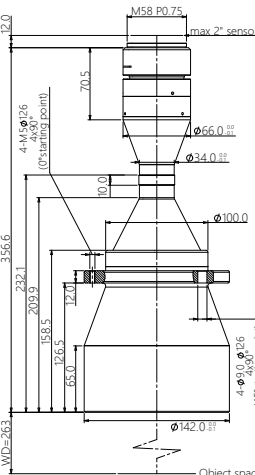
FOV(Φmm)	90
Mag.(x)	0.367
WD(mm)	208±3
Max Sensor Size(Φmm)	33(2")
F/#	8.6
MTF30(lp/mm)	>100
DOF(mm)	±4.7@F16
Distortion(% max)	<0.1
Telecentricity(" max)	<0.1
I/O(mm)	524±3
Length(mm)	304.0
Mount	M42/M48/M58
Weight(kg)	2.3
Field of View (mmxmm)	
2" DALSA 12M(24.58x18.43)	67.0x50.2
2" PYTHON 25K(23.04x23.04)	62.8x62.8

DTCM210-100-AL



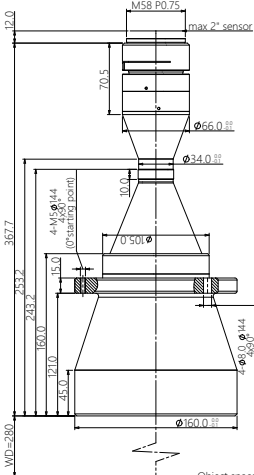
FOV(Φmm)	100
Mag.(x)	0.330
WD(mm)	258±4
Max Sensor Size(Φmm)	33(2")
F/#	12.9
MTF30(lp/mm)	>60
DOF(mm)	±7.3@F20
Distortion(% max)	<0.1
Telecentricity(" max)	<0.1
I/O(mm)	597±4
Length(mm)	327.3
Mount	M42/M48/M58
Weight(kg)	3.6
Field of View (mmxmm)	
2" DALSA 12M(24.58x18.43)	74.5x55.8
2" PYTHON 25K(23.04x23.04)	69.8x69.8

DTCM210-110-AL



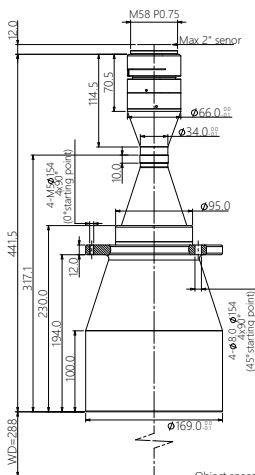
FOV(Φmm)	110
Mag.(x)	0.300
WD(mm)	263±4
Max Sensor Size(Φmm)	33(2")
F/#	7.8
MTF30(lp/mm)	>110
DOF(mm)	±7.1@F16
Distortion(% max)	<0.1
Telecentricity(" max)	<0.1
I/O(mm)	632±4
Length(mm)	356.6
Mount	M42/M48/M58
Weight(kg)	3.3
Field of View (mmxmm)	
2" DALSA 12M(24.58x18.43)	81.9x61.4
2" PYTHON 25K(23.04x23.04)	76.8x76.8

DTCM210-120-AL



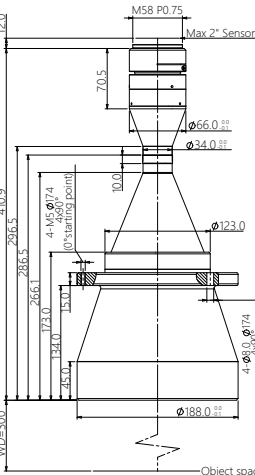
FOV(Φmm)	120
Mag.(x)	0.275
WD(mm)	280±5
Max Sensor Size(Φmm)	33(2")
F/#	11.1
MTF30(lp/mm)	>80
DOF(mm)	±10.5@F20
Distortion(% max)	<0.1
Telecentricity(" max)	<0.1
I/O(mm)	660±5
Length(mm)	367.7
Mount	M42/M48/M58
Weight(kg)	4.8
Field of View (mmxmm)	
2" DALSA 12M(24.58x18.43)	89.4x67.0
2" PYTHON 25K(23.04x23.04)	83.8x83.8

DTCM210-136-AL



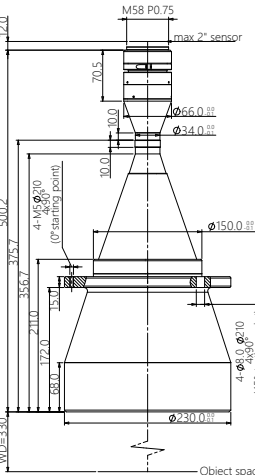
FOV(Φmm)	136
Mag.(x)	0.243
WD(mm)	288±5
Max Sensor Size(Φmm)	33(2")
F/#	7.8
MTF30(lp/mm)	>110
DOF(mm)	±10.8@F16
Distortion(% max)	<0.1
Telecentricity(" max)	<0.1
I/O(mm)	742±5
Length(mm)	441.5
Mount	M42/M48/M58
Weight(kg)	-
Field of View (mmxmm)	
2" DALSA 12M(24.58x18.43)	101.2x75.8
2" PYTHON 25K(23.04x23.04)	94.8x94.8

DTCM210-150-AL



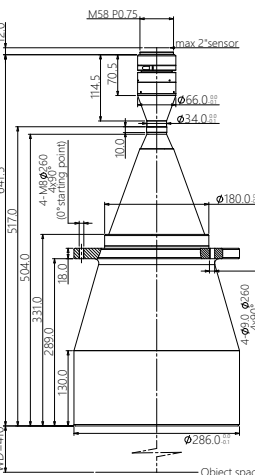
FOV(Φmm)	150
Mag.(x)	0.220
WD(mm)	300±5
Max Sensor Size(Φmm)	33(2")
F/#	11.1
MTF30(lp/mm)	>80
DOF(mm)	±16.5@F20
Distortion(% max)	<0.1
Telecentricity(" max)	<0.1
I/O(mm)	723±5
Length(mm)	410.9
Mount	M42/M48/M58
Weight(kg)	6.3
Field of View (mmxmm)	
2" DALSA 12M(24.58x18.43)	111.7x83.8
2" PYTHON 25K(23.04x23.04)	104.7x104.7

DTCM210-190-AL



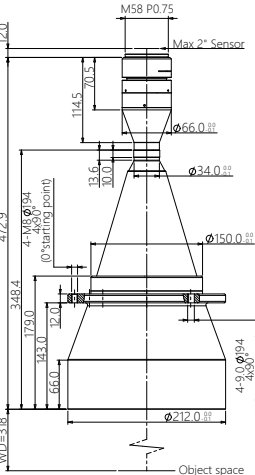
FOV(Φmm)	190
Mag.(x)	0.174
WD(mm)	330±5
Max Sensor Size(Φmm)	33(2")
F/#	7.8
MTF30(lp/mm)	>115
DOF(mm)	±21.1@F16
Distortion(% max)	<0.1
Telecentricity(" max)	<0.1
I/O(mm)	842±5
Length(mm)	500.2
Mount	M42/M48/M58
Weight(kg)	11.6
Field of View (mmxmm)	
2" DALSA 12M(24.58x18.43)	141.3x105.9
2" PYTHON 25K(23.04x23.04)	132.4x132.4

DTCM210-240H-AL



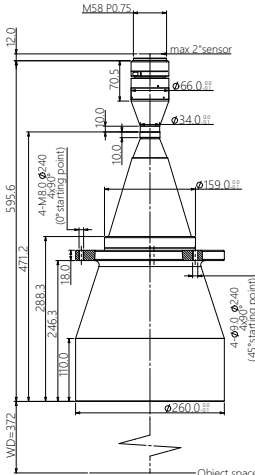
FOV(Φmm)	240
Mag.(x)	0.138
WD(mm)	410±6
Max Sensor Size(Φmm)	33(2")
F/#	7.8
MTF30(lp/mm)	>110
DOF(mm)	±33.9@F16
Distortion(% max)	<0.1
Telecentricity(" max)	<0.1
I/O(mm)	1064±6
Length(mm)	641.5
Mount	M42/M48/M58
Weight(kg)	19.8
Field of View (mmxmm)	
2" DALSA 12M(24.58x18.43)	178.1x133.6
2" PYTHON 25K(23.04x23.04)	167.0x167.0

DTCM210-170-AL



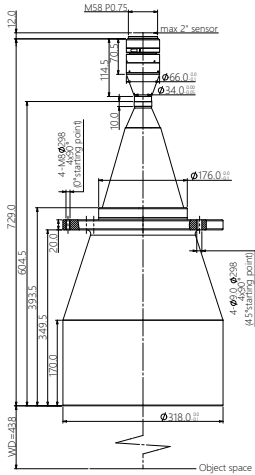
FOV(Φmm)	170
Mag.(x)	0.194
WD(mm)	318±5
Max Sensor Size(Φmm)	33(2")
F/#	7.8
MTF30(lp/mm)	>110
DOF(mm)	±17.0@F16
Distortion(% max)	<0.1
Telecentricity(" max)	<0.1
I/O(mm)	803±5
Length(mm)	472.9
Mount	M42/M48/M58
Weight(kg)	7.1
Field of View (mmxmm)	
2" DALSA 12M(24.58x18.43)	126.7x95.0
2" PYTHON 25K(23.04x23.04)	118.8x118.8

DTCM210-216-AL



FOV(Φmm)	216
Mag.(x)	0.153
WD(mm)	372±5
Max Sensor Size(Φmm)	33(2")
F/#	7.8
MTF30(lp/mm)	>115
DOF(mm)	±27.3@F16
Distortion(% max)	<0.1
Telecentricity(" max)	<0.1
I/O(mm)	980±5
Length(mm)	595.6
Mount	M42/M48/M58
Weight(kg)	14.3
Field of View (mmxmm)	
2" DALSA 12M(24.58x18.43)	160.7x120.5
2" PYTHON 25K(23.04x23.04)	150.6x150.6

DTCM210-268-AL



FOV(Φmm)	268
Mag.(x)	0.123
WD(mm)	438±6
Max Sensor Size(Φmm)	33(2")
F/#	7.8
MTF30(lp/mm)	>115
DOF(mm)	±42.3@F16
Distortion(% max)	<0.1
Telecentricity(" max)	<0.1
I/O(mm)	1179±6
Length(mm)	729.0
Mount	M42/M48/M58
Weight(kg)	-
Field of View (mmxmm)	
2" DALSA 12M(24.58x18.43)	199.8x149.8
2" PYTHON 25K(23.04x23.04)	187.3x187.3

DTCA Series
Bi-Telecentric Lens
with Iris and Coaxial Light

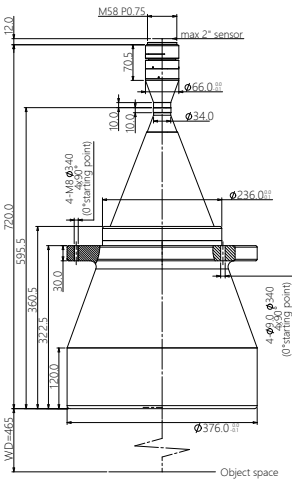
WWK Series
Telecentric Lens for
AOI Inspection

DTCM Series
Bi-Telecentric Lens

WWH Series
Megapixel Object Side
Telecentric Lens

WWL Series
Standard Fixed
Magnification Lens

DTCM210-300-AL



FOV(Φmm)	300
Mag. (x)	0.110
WD(mm)	465±6
Max Sensor Size(Φmm)	33(2")
F/#	7.8
MTF30(lp/mm)	>115
DOF(mm)	±52.8@F16
Distortion(% max)	<0.1
Telecentricity(° max)	<0.1
I/O(mm)	1197±6
Length(mm)	720.0
Mount	M42/M48/M58
Weight(kg)	47.1
Field of View (mmxmm)	
2" DALSA 12M(24.58x18.43)	223.5x167.5
2" PYTHON 25K(23.04x23.04)	209.5x209.5

Product pictures



GCOL60-W



GCOL80-W



GCOL200-B OFF



GCOL200-B ON

Accessory products

External coaxial lighting

Model :GCOL

Description

A synthetic device for illuminated light path and imaging optical path, can compatible with telecentric illumination and diffuse illumination.

Key advantage

Compatible with all VICO telecentric lenses, various sizes, wavelength and power for optional.

DTCM71M Series

Support 39mm

Cameras



Lens Model	FOV (Φmm)	Mag. β(x)	WD (mm)	Sensor Size (Φmm)	F/#	MTF30 (lp/mm)	DOF (mm)	Distortion (% max)	Telecentricity (° max)	I/O (mm)	Length (mm)	Mount	Weight (kg)
DTCM71M-36-AL	36	1.083	110±2	39	18.3	>43	±0.65@F20	<0.1	<0.1	363±2	241.2	M58	1.0
DTCM71M-42-AL	42	0.929	118±3	39	15.3	>55	±0.9@F20	<0.1	<0.1	357±3	226.7	M58	1.0
DTCM71M-48-AL	48	0.813	128±3	39	15.3	>50	±1.2@F20	<0.1	<0.1	380±3	240.2	M58	1.0
DTCM71M-56-AL	56	0.696	138±3	39	13.1	>65	±1.6@F20	<0.1	<0.1	413±3	262.7	M58	1.3
DTCM71M-64H-AL	64	0.609	158±3	39	11.5	>70	±2.4@F22	<0.1	<0.1	445±3	275.2	M58	1.4
DTCM71M-72-AL	72	0.542	178±3	39	11.5	>75	±2.7@F20	<0.1	<0.1	485±3	295.2	M58	1.6
DTCM71M-80H-AL	80	0.488	228±4	39	6.6	>130	±2.7@F16	<0.1	<0.1	525±4	285.2	M58	2.5
DTCM71M-90-AL	90	0.433	208±3	39	10.2	>85	±4.2@F20	<0.1	<0.1	540±3	320.2	M58	2.3
DTCM71M-100-AL	100	0.390	258±4	39	15.3	>55	±5.2@F20	<0.1	<0.1	614±4	343.6	M58	3.6
DTCM71M-110-AL	110	0.355	263±4	39	8.3	>95	±5.1@F16	<0.1	<0.1	648±4	372.8	M58	3.3
DTCM71M-120-AL	120	0.325	280±5	39	13.1	>65	±7.5@F20	<0.1	<0.1	676±5	383.9	M58	4.8
DTCM71M-136-AL	136	0.287	288±5	39	7.1	>120	±7.8@F16	<0.1	<0.1	758±5	457.8	M58	-
DTCM71M-150-AL	150	0.260	300±5	39	13.1	>65	±11.8@F20	<0.1	<0.1	739±5	427.2	M58	6.3
DTCM71M-170-AL	170	0.229	318±5	39	6.5	>125	±8.4@F11	<0.1	<0.1	819±5	489.1	M58	7.1
DTCM71M-190-AL	190	0.205	330±5	39	9.2	>100	±15.2@F16	<0.1	<0.1	858±5	516.4	M58	11.6
DTCM71M-216-AL	216	0.181	372±5	39	6.5	>135	±13.4@F11	<0.1	<0.1	996±5	611.9	M58	14.3
DTCM71M-240H-AL	240	0.163	410±6	39	7.5	>130	±24.3@F16	<0.1	<0.1	1080±6	657.7	M58	19.8
DTCM71M-268-AL	268	0.146	438±6	39	6.5	>140	±21@F11	<0.1	<0.1	1195±6	745.2	M58	-
DTCM71M-300-AL	300	0.130	465±6	39	6.5	>130	±26@F11	<0.1	<0.1	1213±6	736.2	M58	47.1

DTCM71M Series

DTCM35F Series

DTCM16K Series

DTCA Series
Bi-Telecentric Lens
with Iris and Coaxial Light

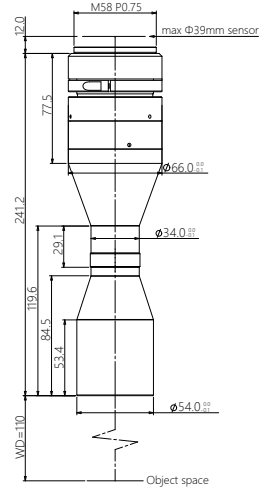
WWK Series
Telecentric Lens for
AOI Inspection

DTCM Series
Bi-Telecentric Lens

WWH Series
Megapixel Object Side
Telecentric Lens

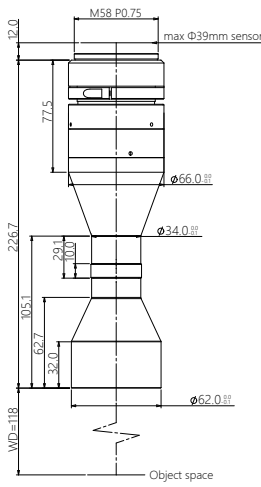
WWL Series
Standard Fixed
Magnification Lens

DTCM71M-36-AL



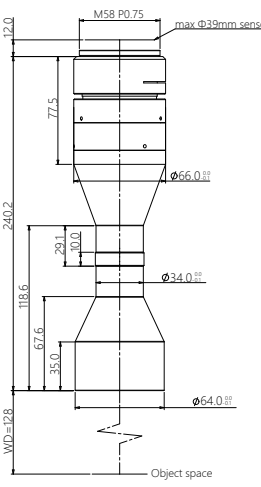
FOV(Φmm)	36
Mag.(x)	1.083
WD(mm)	110±2
Max Sensor Size(Φmm)	39
F/#	18.3
MTF30(lp/mm)	>43
DOF(mm)	±0.65@F20
Distortion(% max)	<0.1
Telecentricity(° max)	<0.1
I/O(mm)	363±2
Length(mm)	241.2
Mount	M58
Weight(kg)	1.0
Field of View (mmxmm)	
CHR 70M (31.0x21.7)	28.6x20.0

DTCM71M-42-AL



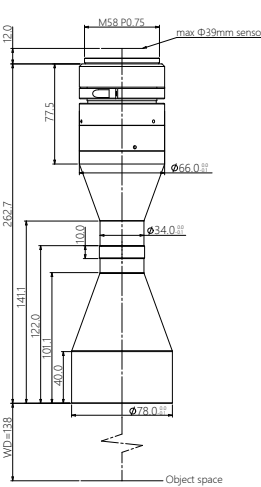
FOV(Φmm)	42
Mag.(x)	0.929
WD(mm)	118±3
Max Sensor Size(Φmm)	39
F/#	15.3
MTF30(lp/mm)	>55
DOF(mm)	±0.9@F20
Distortion(% max)	<0.1
Telecentricity(° max)	<0.1
I/O(mm)	357±3
Length(mm)	226.7
Mount	M58
Weight(kg)	1.0
Field of View (mmxmm)	
CHR 70M (31.0x21.7)	33.4x23.4

DTCM71M-48-AL



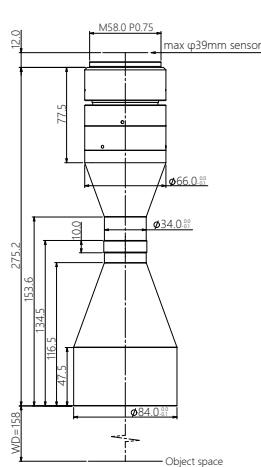
FOV(Φmm)	48
Mag.(x)	0.813
WD(mm)	128±3
Max Sensor Size(Φmm)	39
F/#	15.3
MTF30(lp/mm)	>50
DOF(mm)	±1.2@F20
Distortion(% max)	<0.1
Telecentricity(° max)	<0.1
I/O(mm)	380±3
Length(mm)	240.2
Mount	M58
Weight(kg)	1.0
Field of View (mmxmm)	
CHR 70M (31.0x21.7)	38.1x26.7

DTCM71M-56-AL



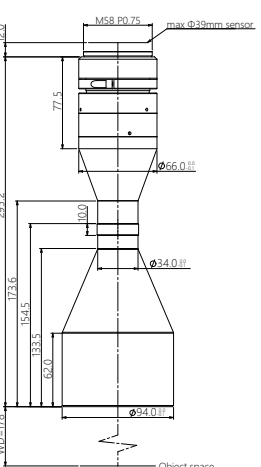
FOV(Φmm)	56
Mag.(x)	0.696
WD(mm)	138±3
Max Sensor Size(Φmm)	39
F/#	13.1
MTF30(lp/mm)	>65
DOF(mm)	±1.6@F20
Distortion(% max)	<0.1
Telecentricity(° max)	<0.1
I/O(mm)	413±3
Length(mm)	262.7
Mount	M58
Weight(kg)	1.3
Field of View (mmxmm)	
CHR 70M (31.0x21.7)	44.5x31.2

DTCM71M-64H-AL



FOV(Φmm)	64
Mag.(x)	0.609
WD(mm)	158±3
Max Sensor Size(Φmm)	39
F/#	11.5
MTF30(lp/mm)	>70
DOF(mm)	±2.4@F22
Distortion(% max)	<0.1
Telecentricity(° max)	<0.1
I/O(mm)	445±3
Length(mm)	275.2
Mount	M58
Weight(kg)	1.4
Field of View (mmxmm)	
CHR 70M (31.0x21.7)	50.9x35.6

DTCM71M-72-AL



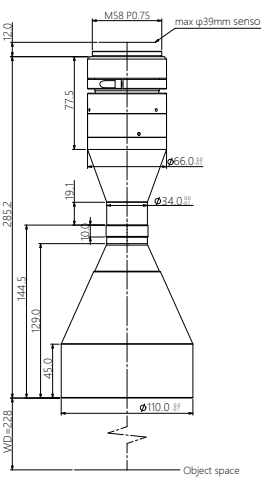
FOV(Φmm)	72
Mag.(x)	0.542
WD(mm)	178±3
Max Sensor Size(Φmm)	39
F/#	11.5
MTF30(lp/mm)	>75
DOF(mm)	±2.7@F20
Distortion(% max)	<0.1
Telecentricity(° max)	<0.1
I/O(mm)	485±3
Length(mm)	295.2
Mount	M58
Weight(kg)	1.6
Field of View (mmxmm)	
CHR 70M (31.0x21.7)	57.2x40.0

DTCM71M Series

DTCM35F Series

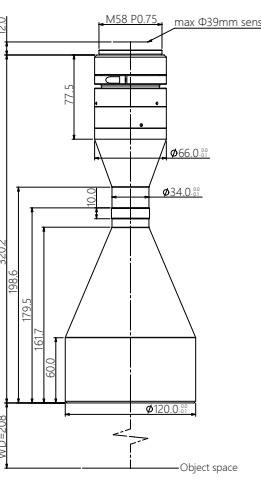
DTCM16K Series

DTCM71M-80H-AL



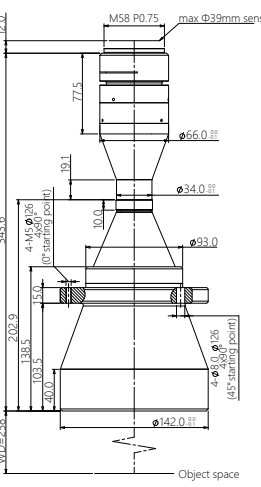
FOV(Φmm)	80
Mag.(x)	0.488
WD(mm)	228±4
Max Sensor Size(Φmm)	39
F/#	6.6
MTF30(lp/mm)	>130
DOF(mm)	±2.7@F16
Distortion(% max)	<0.1
Telecentricity(° max)	<0.1
I/O(mm)	525±4
Length(mm)	285.2
Mount	M58
Weight(kg)	2.5
Field of View (mmxmm)	
CHR 70M (31.0x21.7)	63.5x44.5

DTCM71M-90-AL



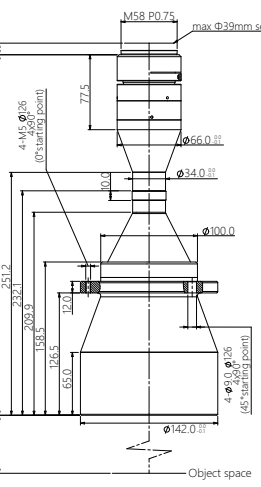
FOV(Φmm)	90
Mag.(x)	0.433
WD(mm)	208±3
Max Sensor Size(Φmm)	39
F/#	10.2
MTF30(lp/mm)	>85
DOF(mm)	±4.2@F20
Distortion(% max)	<0.1
Telecentricity(° max)	<0.1
I/O(mm)	540±3
Length(mm)	320.2
Mount	M58
Weight(kg)	2.3
Field of View (mmxmm)	
CHR 70M (31.0x21.7)	71.6x50.1

DTCM71M-100-AL



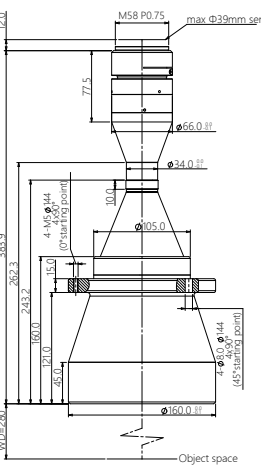
FOV(Φmm)	100
Mag.(x)	0.390
WD(mm)	258±4
Max Sensor Size(Φmm)	39
F/#	15.3
MTF30(lp/mm)	>55
DOF(mm)	±5.2@F20
Distortion(% max)	<0.1
Telecentricity(° max)	<0.1
I/O(mm)	614±4
Length(mm)	343.6
Mount	M58
Weight(kg)	3.6
Field of View (mmxmm)	
CHR 70M (31.0x21.7)	79.5x55.6

DTCM71M-110-AL



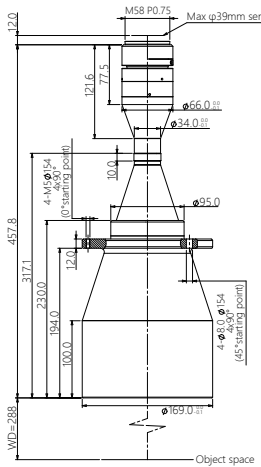
FOV(Φmm)	110
Mag.(x)	0.355
WD(mm)	263±4
Max Sensor Size(Φmm)	39
F/#	8.3
MTF30(lp/mm)	>95
DOF(mm)	±5.1@F16
Distortion(% max)	<0.1
Telecentricity(° max)	<0.1
I/O(mm)	648±4
Length(mm)	372.8
Mount	M58
Weight(kg)	3.3
Field of View (mmxmm)	
CHR 70M (31.0x21.7)	87.3x61.1

DTCM71M-120-AL



FOV(Φmm)	120
Mag.(x)	0.325
WD(mm)	280±5
Max Sensor Size(Φmm)	39
F/#	13.1
MTF30(lp/mm)	>65
DOF(mm)	±7.5@F20
Distortion(% max)	<0.1
Telecentricity(° max)	<0.1
I/O(mm)	676±5
Length(mm)	383.9
Mount	M58
Weight(kg)	4.8
Field of View (mmxmm)	
CHR 70M (31.0x21.7)	95.4x66.8

DTCM71M-136-AL



FOV(Φmm)	136
Mag.(x)	0.287
WD(mm)	288±5
Max Sensor Size(Φmm)	39
F/#	7.1
MTF30(lp/mm)	>120
DOF(mm)	±7.8@F16
Distortion(% max)	<0.1
Telecentricity(° max)	<0.1
I/O(mm)	758±5
Length(mm)	457.8
Mount	M58
Weight(kg)	-
Field of View (mmxmm)	
CHR 70M (31.0x21.7)	108.0x75.6

DTCa Series
Bi-Telecentric Lens
with Iris and Coaxial Light

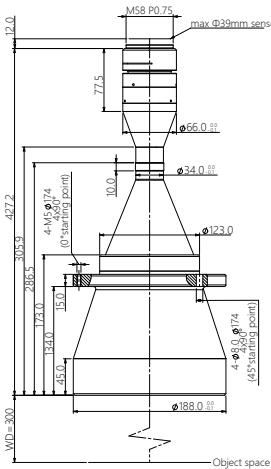
WWK Series
Telecentric Lens for
AOI Inspection

DTCM Series
Bi-Telecentric Lens

WWH Series
Megapixel Object Side
Telecentric Lens

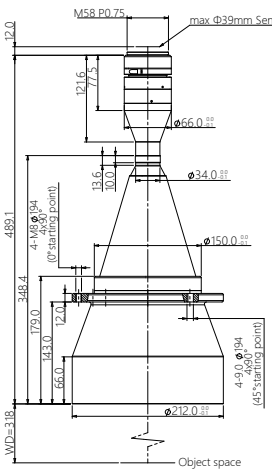
WWL Series
Standard Fixed
Magnification Lens

DTCM71M-150-AL



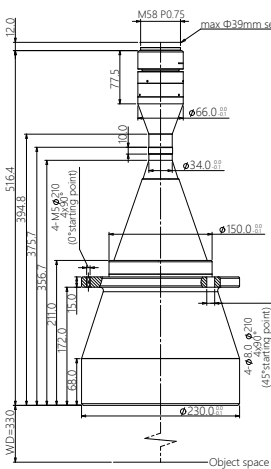
FOV(Φmm)	150
Mag.(x)	0.260
WD(mm)	300±5
Max Sensor Size(Φmm)	39
F/#	13.1
MTF30(lp/mm)	>65
DOF(mm)	±11.8@F20
Distortion(% max)	<0.1
Telecentricity(° max)	<0.1
I/O(mm)	739±5
Length(mm)	427.2
Mount	M58
Weight(kg)	6.3
Field of View (mmxmm)	
CHR 70M (31.0x21.7)	119.2x83.5

DTCM71M-170-AL



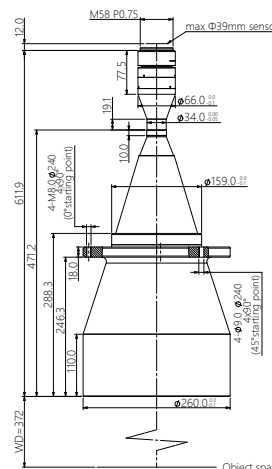
FOV(Φmm)	170
Mag.(x)	0.229
WD(mm)	318±5
Max Sensor Size(Φmm)	39
F/#	6.5
MTF30(lp/mm)	>125
DOF(mm)	±8.4@F11
Distortion(% max)	<0.1
Telecentricity(° max)	<0.1
I/O(mm)	819±5
Length(mm)	489.1
Mount	M58
Weight(kg)	7.1
Field of View (mmxmm)	
CHR 70M (31.0x21.7)	135.4x94.8

DTCM71M-190-AL



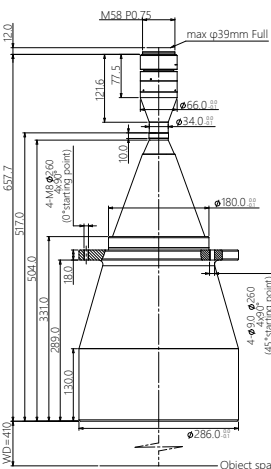
FOV(Φmm)	190
Mag.(x)	0.205
WD(mm)	330±5
Max Sensor Size(Φmm)	39
F/#	9.2
MTF30(lp/mm)	>100
DOF(mm)	±15.2@F16
Distortion(% max)	<0.1
Telecentricity(° max)	<0.1
I/O(mm)	858±5
Length(mm)	516.4
Mount	M58
Weight(kg)	11.6
Field of View (mmxmm)	
CHR 70M (31.0x21.7)	151.2x105.9

DTCM71M-216-AL



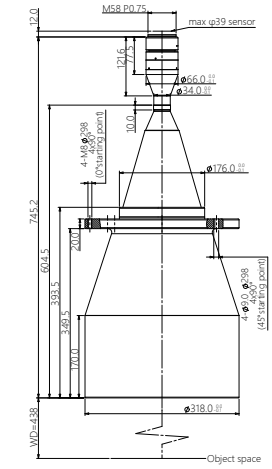
FOV(Φmm)	216
Mag.(x)	0.181
WD(mm)	372±5
Max Sensor Size(Φmm)	39
F/#	6.5
MTF30(lp/mm)	>135
DOF(mm)	±13.4@F11
Distortion(% max)	<0.1
Telecentricity(° max)	<0.1
I/O(mm)	996±5
Length(mm)	611.9
Mount	M58
Weight(kg)	14.3
Field of View (mmxmm)	
CHR 70M (31.0x21.7)	171.3x119.9

DTCM71M-240H-AL



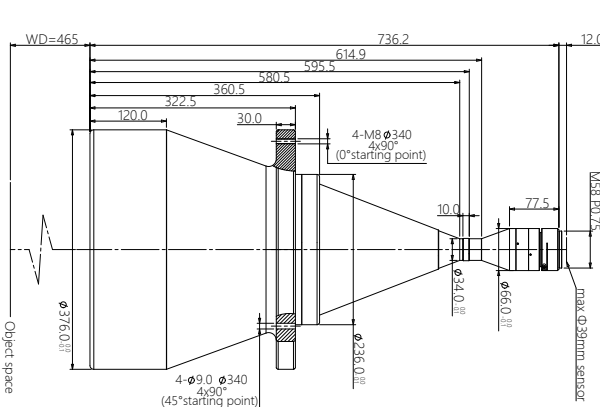
FOV(Φmm)	240
Mag.(x)	0.163
WD(mm)	410±6
Max Sensor Size(Φmm)	39
F/#	7.5
MTF30(lp/mm)	>130
DOF(mm)	±24.3@F16
Distortion(% max)	<0.1
Telecentricity(° max)	<0.1
I/O(mm)	1080±6
Length(mm)	657.7
Mount	M58
Weight(kg)	19.8
Field of View (mmxmm)	
CHR 70M (31.0x21.7)	190.2x133.1

DTCM71M-268-AL



FOV(Φmm)	268
Mag.(x)	0.146
WD(mm)	438±6
Max Sensor Size(Φmm)	39
F/#	6.5
MTF30(lp/mm)	>140
DOF(mm)	±21@F11
Distortion(% max)	<0.1
Telecentricity(° max)	<0.1
I/O(mm)	1195±6
Length(mm)	745.2
Mount	M58
Weight(kg)	-
Field of View (mmxmm)	
CHR 70M (31.0x21.7)	212.3x148.6

DTCM71M-300-AL



FOV(Φmm)	300
Mag.(x)	0.130
WD(mm)	465±6
Max Sensor Size(Φmm)	39
F/#	6.5
MTF30(lp/mm)	>130
DOF(mm)	±26@F11
Distortion(% max)	<0.1
Telecentricity(° max)	<0.1
I/O(mm)	1213±6
Length(mm)	736.2
Mount	M58
Weight(kg)	47.1
Field of View (mmxmm)	
CHR 70M (31.0x21.7)	238.5x166.9

Accessory products

Description

Can configure various optical path deflecting components for users.

Product pictures

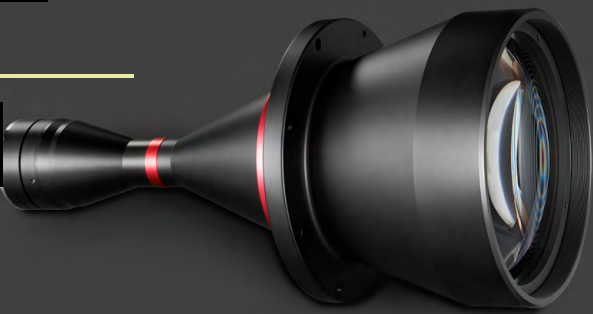


90 degree light path deflecting device

DTCM35F Series

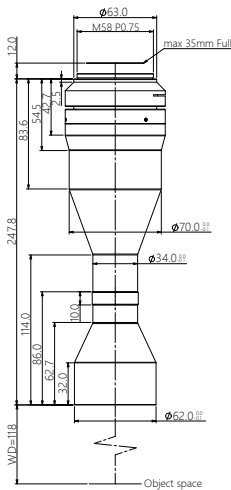
Support 35mm Full

Cameras



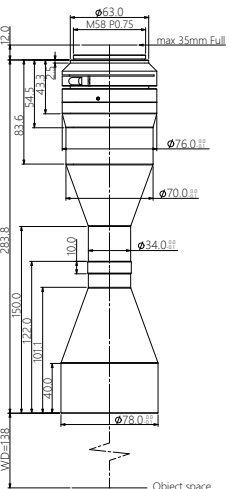
Lens Model	FOV (Φmm)	Mag. β(x)	WD (mm)	Sensor Size (Φmm)	F/#	MTF30 (lp/mm)	DOF (mm)	Distortion (% max)	Telecentricity (° max)	I/O (mm)	Length (mm)	Mount	Weight (kg)
DTCM35FH-42-AL	42	1.038	118±3	44(35mm Full)	17.1	>50	±0.7@F20	<0.1	<0.1	378±3	247.8	M58	1.2
DTCM35FH-48-AL	48	0.908	128±3	44(35mm Full)	17.1	>50	±1.0@F20	<0.1	<0.1	401±3	261.3	M58	1.2
DTCM35FH-56-AL	56	0.779	138±3	44(35mm Full)	14.6	>60	±1.3@F20	<0.1	<0.1	434±3	283.8	M58	1.5
DTCM35FH-64H-AL	64	0.681	158±3	44(35mm Full)	12.8	>65	±1.7@F20	<0.1	<0.1	466±3	296.3	M58	1.6
DTCM35FH-72-AL	72	0.606	178±3	44(35mm Full)	12.8	>70	±2.2@F20	<0.1	<0.1	506±3	316.3	M58	1.8
DTCM35FH-80H-AL	80	0.545	228±4	44(35mm Full)	7.3	>115	±2.2@F16	<0.1	<0.1	546±4	306.3	M58	2.7
DTCM35FH-90-AL	90	0.484	208±3	44(35mm Full)	11.4	>75	±3.4@F20	<0.1	<0.1	561±3	341.3	M58	2.4
DTCM35FH-100-AL	100	0.436	258±4	44(35mm Full)	17.1	>50	±4.2@F20	<0.1	<0.1	635±4	364.7	M58	3.8
DTCM35FH-110-AL	110	0.396	263±4	44(35mm Full)	9.3	>90	±4.1@F16	<0.1	<0.1	669±6	393.9	M58	3.4
DTCM35FH-120-AL	120	0.363	280±5	44(35mm Full)	14.6	>60	±6.1@F20	<0.1	<0.1	697±5	405	M58	5.0
DTCM35FH-136-AL	136	0.321	288±5	44(35mm Full)	7.9	>110	±6.2@F16	<0.1	<0.1	779±6	478.9	M58	-
DTCM35FH-150-AL	150	0.291	300±5	44(35mm Full)	14.6	>60	±9.4@F20	<0.1	<0.1	760±5	448.3	M58	6.4
DTCM35FH-170-AL	170	0.256	318±5	44(35mm Full)	6.0	>130	±6.7@F11	<0.1	<0.1	840±5	510.2	M58	7.3
DTCM35FH-190-AL	190	0.229	330±5	44(35mm Full)	10.3	>90	±15.3@F20	<0.1	<0.1	880±5	537.5	M58	11.8
DTCM35FH-216-AL	216	0.202	372±5	44(35mm Full)	10.4	>90	±19.6@F20	<0.1	<0.1	1017±5	633.0	M58	14.5
DTCM35FH-240H-AL	240	0.182	410±6	44(35mm Full)	6.0	>130	±13.3@F11	<0.1	<0.1	1101±6	678.8	M58	20.0
DTCM35FH-268-AL	268	0.163	438±6	44(35mm Full)	6.0	>140	±16.6@F11	<0.1	<0.1	1216±6	766.3	M58	-
DTCM35FH-300-AL	300	0.145	465±6	44(35mm Full)	6.7	>130	±20.9@F11	<0.1	<0.1	1234±6	757.3	M58	47.3

DTCM35FH-42-AL



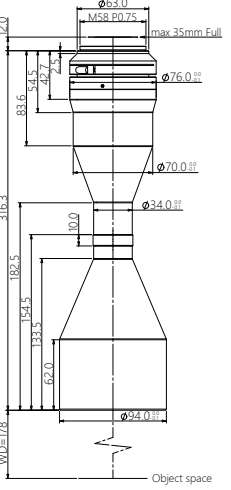
FOV(Φmm)	42
Mag.(x)	1.038
WD(mm)	118±3
Max Sensor Size(Φmm)	44(35mm Full)
F/#	17.1
MTF30(lp/mm)	>50
DOF(mm)	±0.7@F20
Distortion(% max)	<0.1
Telecentricity(° max)	<0.1
I/O(mm)	378±3
Length(mm)	247.8
Mount	M58
Weight(kg)	1.2
Field of View (mmxmm)	
CMV50000 (36.43x27.62)	35.1x26.6
KAI29050/2 (36.17x24.11)	34.8x23.2
KAI43142 (36.18x24.12)	34.9x23.2

DTCM35FH-56-AL



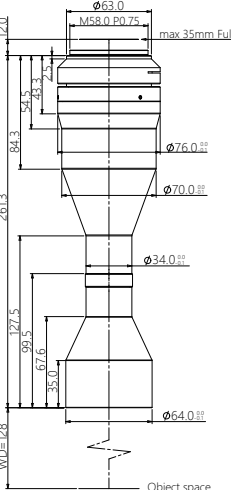
FOV(Φmm)	56
Mag.(x)	0.779
WD(mm)	138±3
Max Sensor Size(Φmm)	44(35mm Full)
F/#	14.6
MTF30(lp/mm)	>60
DOF(mm)	±1.3@F20
Distortion(% max)	<0.1
Telecentricity(° max)	<0.1
I/O(mm)	434±3
Length(mm)	283.8
Mount	M58
Weight(kg)	1.5
Field of View (mmxmm)	
CMV50000 (36.43x27.62)	46.8x35.5
KAI29050/2 (36.17x24.11)	46.4x30.9
KAI43142 (36.18x24.12)	46.4x31.0

DTCM35FH-72-AL



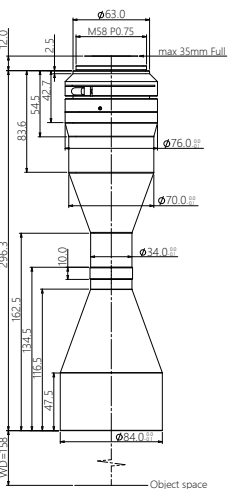
FOV(Φmm)	72
Mag.(x)	0.606
WD(mm)	178±3
Max Sensor Size(Φmm)	44(35mm Full)
F/#	12.8
MTF30(lp/mm)	>70
DOF(mm)	±2.2@F20
Distortion(% max)	<0.1
Telecentricity(° max)	<0.1
I/O(mm)	506±3
Length(mm)	316.3
Mount	M58
Weight(kg)	1.8
Field of View (mmxmm)	
CMV50000 (36.43x27.62)	60.1x45.6
KAI29050/2 (36.17x24.11)	59.7x39.8
KAI43142 (36.18x24.12)	59.7x39.8

DTCM35FH-48-AL



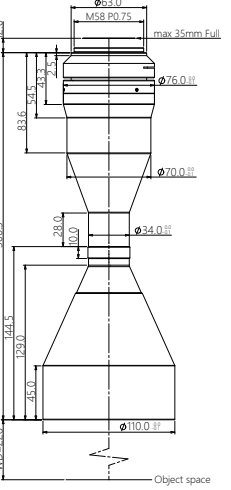
FOV(Φmm)	48
Mag.(x)	0.908
WD(mm)	128±3
Max Sensor Size(Φmm)	44(35mm Full)
F/#	17.1
MTF30(lp/mm)	>50
DOF(mm)	±1.0@F20
Distortion(% max)	<0.1
Telecentricity(° max)	<0.1
I/O(mm)	401±3
Length(mm)	261.3
Mount	M58
Weight(kg)	1.2
Field of View (mmxmm)	
CMV50000 (36.43x27.62)	40.1x30.4
KAI29050/2 (36.17x24.11)	39.8x26.6
KAI43142 (36.18x24.12)	39.8x26.6

DTCM35FH-64H-AL



FOV(Φmm)	64
Mag.(x)	0.681
WD(mm)	158±3
Max Sensor Size(Φmm)	44(35mm Full)
F/#	12.8
MTF30(lp/mm)	>65
DOF(mm)	±1.7@F20
Distortion(% max)	<0.1
Telecentricity(° max)	<0.1
I/O(mm)	466±3
Length(mm)	296.3
Mount	M58
Weight(kg)	1.6
Field of View (mmxmm)	
CMV50000 (36.43x27.62)	53.5x40.6
KAI29050/2 (36.17x24.11)	53.1x35.4
KAI43142 (36.18x24.12)	53.1x35.4

DTCM35FH-80H-AL

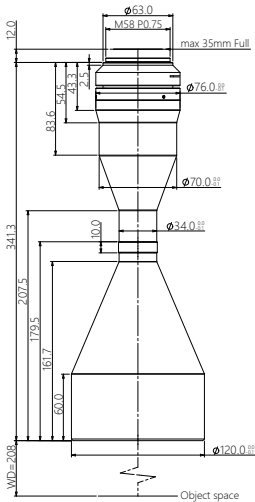


FOV(Φmm)	80
Mag.(x)	0.545
WD(mm)	228±4
Max Sensor Size(Φmm)	44(35mm Full)
F/#	7.3
MTF30(lp/mm)	>115
DOF(mm)	±2.2@F16
Distortion(% max)	<0.1
Telecentricity(° max)	<0.1
I/O(mm)	546±4
Length(mm)	306.3
Mount	M58
Weight(kg)	2.7
Field of View (mmxmm)	
CMV50000 (36.43x27.62)	66.8x50.7
KAI29050/2 (36.17x24.11)	66.4x44.2
KAI43142 (36.18x24.12)	66.4x44.3

DTCA Series
Bi-Telecentric Lens
with Iris and Coaxial Light

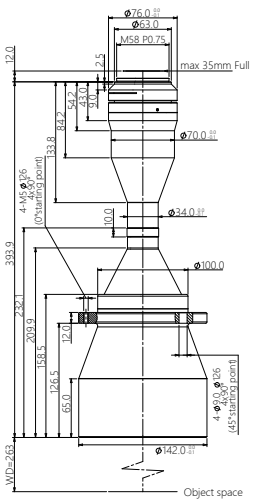
WWK Series
Telecentric Lens for
AOI Inspection

DTCM35FH-90-AL



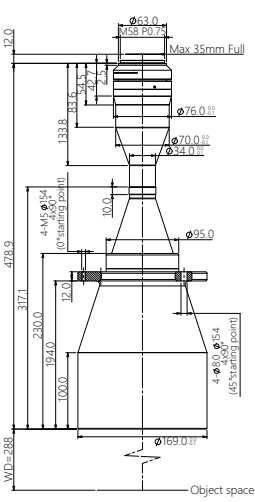
FOV(Φmm)	90
Mag.(x)	0.484
WD(mm)	208±3
Max Sensor Size(Φmm)	44(35mm Full)
F/#	11.4
MTF30(lp/mm)	>75
DOF(mm)	±3.4@F20
Distortion(% max)	<0.1
Telecentricity(° max)	<0.1
I/O(mm)	561±3
Length(mm)	341.3
Mount	M58
Weight(kg)	2.4
Field of View (mmxmm)	
CMV50000 (36.43x27.62)	75.3x57.1
KAI29050/2 (36.17x24.11)	74.7x49.8
KAI43142 (36.18x24.12)	74.8x49.8

DTCM35FH-110-AL



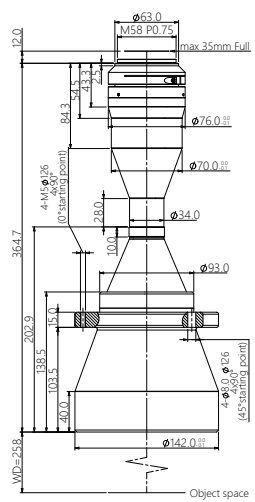
FOV(Φmm)	110
Mag.(x)	0.396
WD(mm)	263±4
Max Sensor Size(Φmm)	44(35mm Full)
F/#	9.3
MTF30(lp/mm)	>90
DOF(mm)	±4.1@F16
Distortion(% max)	<0.1
Telecentricity(° max)	<0.1
I/O(mm)	669±6
Length(mm)	393.9
Mount	M58
Weight(kg)	3.4
Field of View (mmxmm)	
CMV50000 (36.43x27.62)	92.0x69.7
KAI29050/2 (36.17x24.11)	91.3x60.9
KAI43142 (36.18x24.12)	91.4x60.9

DTCM35FH-136-AL



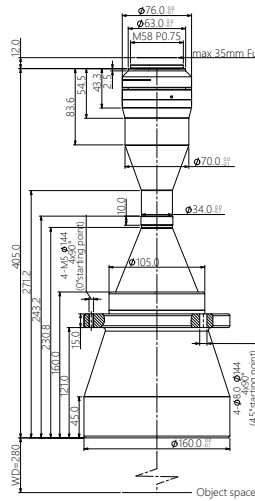
FOV(Φmm)	136
Mag.(x)	0.321
WD(mm)	288±5
Max Sensor Size(Φmm)	44(35mm Full)
F/#	7.9
MTF30(lp/mm)	>110
DOF(mm)	±6.2@F16
Distortion(% max)	<0.1
Telecentricity(° max)	<0.1
I/O(mm)	779±6
Length(mm)	478.9
Mount	M58
Weight(kg)	-
Field of View (mmxmm)	
CMV50000 (36.43x27.62)	113.5x86.0
KAI29050/2 (36.17x24.11)	112.7x75.1
KAI43142 (36.18x24.12)	112.7x75.1

DTCM35FH-100-AL



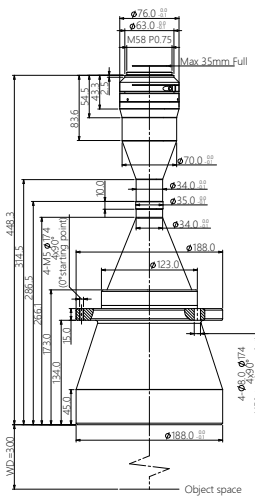
FOV(Φmm)	100
Mag.(x)	0.436
WD(mm)	258±4
Max Sensor Size(Φmm)	44(35mm Full)
F/#	17.1
MTF30(lp/mm)	>50
DOF(mm)	±4.2@F20
Distortion(% max)	<0.1
Telecentricity(° max)	<0.1
I/O(mm)	635±4
Length(mm)	364.7
Mount	M58
Weight(kg)	3.8
Field of View (mmxmm)	
CMV50000 (36.43x27.62)	83.6x63.3
KAI29050/2 (36.17x24.11)	83.0x55.3
KAI43142 (36.18x24.12)	83.0x55.3

DTCM35FH-120-AL



FOV(Φmm)	120
Mag.(x)	0.363
WD(mm)	280±5
Max Sensor Size(Φmm)	44(35mm Full)
F/#	14.6
MTF30(lp/mm)	>60
DOF(mm)	±6.1@F20
Distortion(% max)	<0.1
Telecentricity(° max)	<0.1
I/O(mm)	697±5
Length(mm)	405.0
Mount	M58
Weight(kg)	5.0
Field of View (mmxmm)	
CMV50000 (36.43x27.62)	100.4x76.1
KAI29050/2 (36.17x24.11)	99.6x66.4
KAI43142 (36.18x24.12)	99.7x66.4

DTCM35FH-150-AL

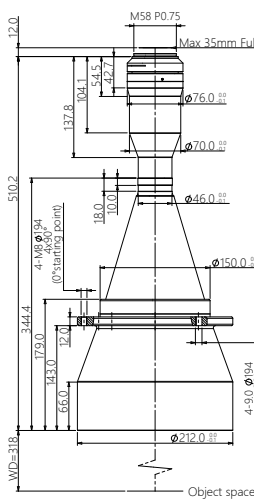


FOV(Φmm)	150
Mag.(x)	0.291
WD(mm)	300±5
Max Sensor Size(Φmm)	44(35mm Full)
F/#	14.6
MTF30(lp/mm)	>60
DOF(mm)	±9.4@F20
Distortion(% max)	<0.1
Telecentricity(° max)	<0.1
I/O(mm)	760±5
Length(mm)	448.3
Mount	M58
Weight(kg)	6.4
Field of View (mmxmm)	
CMV50000 (36.43x27.62)	125.2x94.9
KAI29050/2 (36.17x24.11)	124.3x82.9
KAI43142 (36.18x24.12)	124.3x82.9

WWH Series
Megapixel Object Side
Telecentric Lens

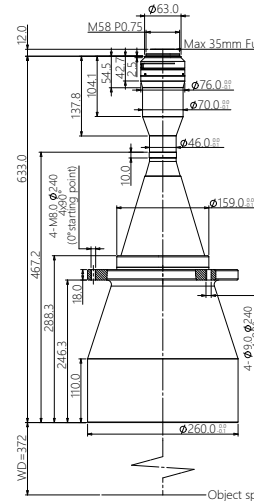
WWL Series
Standard Fixed
Magnification Lens

DTCM35FH-170-AL



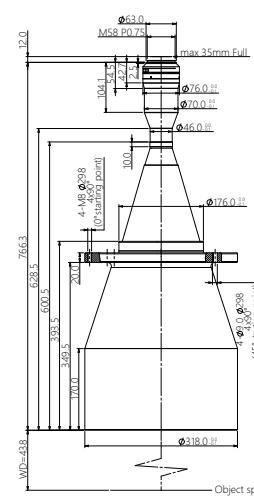
FOV(Φmm)	170
Mag.(x)	0.256
WD(mm)	318±5
Max Sensor Size(Φmm)	44(35mm Full)
F/#	6.0
MTF30(lp/mm)	>130
DOF(mm)	±6.7@F11
Distortion(% max)	<0.1
Telecentricity(° max)	<0.1
I/O(mm)	840±5
Length(mm)	510.2
Mount	M58
Weight(kg)	7.3
Field of View (mmxmm)	
CMV50000 (36.43x27.62)	142.3x107.9
KAI29050/2 (36.17x24.11)	141.3x94.2
KAI43142 (36.18x24.12)	141.3x94.2

DTCM35FH-216-AL



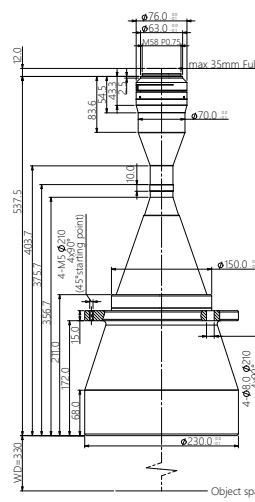
FOV(Φmm)	216
Mag.(x)	0.202
WD(mm)	372±5
Max Sensor Size(Φmm)	44(35mm Full)
F/#	10.4
MTF30(lp/mm)	>90
DOF(mm)	±19.6@F20
Distortion(% max)	<0.1
Telecentricity(° max)	<0.1
I/O(mm)	1017±5
Length(mm)	633.0
Mount	M58
Weight(kg)	14.5
Field of View (mmxmm)	
CMV50000 (36.43x27.62)	180.3x136.7
KAI29050/2 (36.17x24.11)	179.1x119.4
KAI43142 (36.18x24.12)	179.1x119.4

DTCM35FH-268-AL



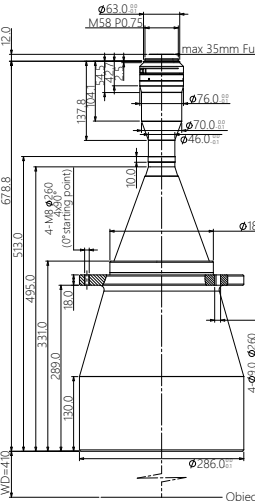
FOV(Φmm)	268
Mag.(x)	0.163
WD(mm)	438±6
Max Sensor Size(Φmm)	44(35mm Full)
F/#	6.0
MTF30(lp/mm)	>140
DOF(mm)	±16.6@F11
Distortion(% max)	<0.1
Telecentricity(° max)	<0.1
I/O(mm)	1216±6
Length(mm)	766.3
Mount	M58
Weight(kg)	-
Field of View (mmxmm)	
CMV50000 (36.43x27.62)	223.5x169.4
KAI29050/2 (36.17x24.11)	221.9x147.9
KAI43142 (36.18x24.12)	222.0x148.0

DTCM35FH-190-AL



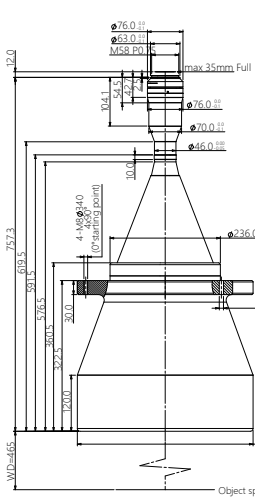
FOV(Φmm)	190
Mag.(x)	0.229
WD(mm)	330±5
Max Sensor Size(Φmm)	44(35mm Full)
F/#	10.3
MTF30(lp/mm)	>90
DOF(mm)	±15.3@F20
Distortion(% max)	<0.1
Telecentricity(° max)	<0.1
I/O(mm)	880±5
Length(mm)	537.5
Mount	M58
Weight(kg)	11.8
Field of View (mmxmm)	
CMV50000 (36.43x27.62)	159.1x120.6
KAI29050/2 (36.17x24.11)	157.9x105.3
KAI43142 (36.18x24.12)	158.0x105.3

DTCM35FH-240H-AL



FOV(Φmm)	240
Mag.(x)	0.182
WD(mm)	410±6
Max Sensor Size(Φmm)	44(35mm Full)
F/#	6.0
MTF30(lp/mm)	>130
DOF(mm)	±13.3@F11
Distortion(% max)	<0.1
Telecentricity(° max)	<0.1
I/O(mm)	1101±6
Length(mm)	678.8
Mount	M58
Weight(kg)	20.0
Field of View (mmxmm)	
CMV50000 (36.43x27.62)	200.2x151.8
KAI29050/2 (36.17x24.11)	198.7x132.5
KAI43142 (36.18x24.12)	198.8x132.5

DTCM35FH-300-AL



FOV(Φmm)	300
Mag.(x)	0.145
WD(mm)	465±6
Max Sensor Size(Φmm)	44(35mm Full)
F/#	6.7
MTF30(lp/mm)	>130
DOF(mm)	±20.9@F11
Distortion(% max)	<0.1
Telecentricity(° max)	<0.1
I/O(mm)	1234±6
Length(mm)	757.3
Mount	M58
Weight(kg)	47.3
Field of View (mmxmm)	
CMV50000 (36.43x27.62)	251.2x190.5
KAI29050/2 (36.17x24.11)	249.4x166.3
KAI43142 (36.18x24.12)	249.5x166.3

Specialty products

Telecentric LED Lighting

Model: DTCL Series

Features

- Specially developed for backlights which is for the objects inspected by telecentric lens;
- All light from DTCL series light source collected by telentric lens goes into camera to ensure high SNR;
- More accurate imaging compared with diffusing light resource by decreasing diffuse reflection on edge;
- Develop Telecentricity and DoF for the telecentric lens.

Name Rule

DTCL Series

Color-Red, Green, Bule, White

DTCL - 26 - xW - y

Beam diameter:26mm

Power-1W/3W



Model	Beam Diameter (mm)	Color				Optical Spec. (mm)	Mechanical Spec. (mm)		Compatible Telecentric Lens
		Red 630nm	Green 520nm	Blue 460nm	Write		Length (mm)	Diameter (mm)(mm)	
DTCL-26-xW-y	26	√	√	√	√	23-46	124.8	44	DTCMxxx-26
DTCL-36-xW-y	36	√	√	√	√	36-72	144.9	54	DTCMxxx-36
DTCL-42-xW-y	42	√	√	√	√	40-80	130.4	62	DTCMxxx-42
DTCL-48-xW-y	48	√	√	√	√	43-86	143.9	64	DTCMxxx-48
DTCL-56-xW-y	56	√	√	√	√	46-92	166.4	78	DTCMxxx-56
DTCL-64H-xW-y	64	√	√	√	√	63-126	178.9	84	DTCMxxx-64H
DTCL-72-xW-y	72	√	√	√	√	59-119	198.9	94	DTCMxxx-72
DTCL-80H-xW-y	80	√	√	√	√	76-152	188.8	110	DTCMxxx-80H
DTCL-90-xW-y	90	√	√	√	√	69-139	223.9	120	DTCMxxx-90
DTCL-100-xW-y	100	√	√	√	√	86-172	248.5	142	DTCMxxx-100
DTCL-110-xW-y	110	√	√	√	√	90-180	276.5	142	DTCMxxx-110
DTCL-120-xW-y	120	√	√	√	√	93-186	288.8	160	DTCMxxx-120
DTCL-136-xW-y	136	√	√	√	√	95-190	361.5	169	DTCMxxx-136
DTCL-150-xW-y	150	√	√	√	√	100-200	332.1	188	DTCMxxx-150
DTCL-170-xW-y	170	√	√	√	√	110-210	392.8	212	DTCMxxx-170
DTCL-190-xW-y	190	√	√	√	√	110-220	420.1	230	DTCMxxx-190
DTCL-216-xW-y	216	√	√	√	√	120-250	515.6	260	DTCMxxx-216
DTCL-240H-xW-y	240	√	√	√	√	135-270	561.4	286	DTCMxxx-240H
DTCL-268-xW-y	268	√	√	√	√	145-290	648.9	318	DTCMxxx-268
DTCL-300-xW-y	300	√	√	√	√	155-310	639.9	376	DTCMxxx-300

DTCM16K Series

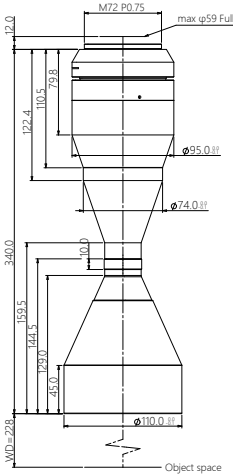
Support 59mm

Cameras



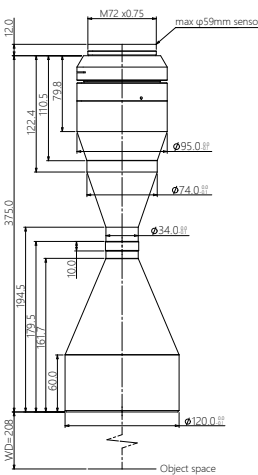
Lens Model	FOV (Φmm)	Mag. β(x)	WD (mm)	Sensor Size (Φmm)	F/#	MTF30 (lp/mm)	DOF (mm)	Distortion (% max)	Telecentricity (° max)	I/O (mm)	Length (mm)	Mount	Weight (kg)
DTCM16K-80H-AL	80	0.738	228±4	59	9.9	>85	±1.6@F22	<0.1	<0.1	580±4	340.0	M72	3.4
DTCM16K-90-AL	90	0.656	208±3	59	15.4	>50	±1.3@F20	<0.1	<0.1	595±3	375.0	M72	3.1
DTCM16K-110-AL	110	0.536	263±4	59	12.6	>60	±2.8@F20	<0.1	<0.1	703±4	427.6	M72	4.1
DTCM16K-136-AL	136	0.434	288±5	59	10.7	>80	±4.2@F20	<0.1	<0.1	813±5	512.6	M72	-
DTCM16K-150-AL	150	0.393	300±5	59	19.8	>45	±5.1@F20	<0.1	<0.1	794±5	482.0	M72	7.1
DTCM16K-170-AL	170	0.347	318±5	59	8.7	>90	±5.3@F16	<0.1	<0.1	874±5	543.9	M72	8.0
DTCM16K-190-AL	190	0.311	330±5	59	13.9	>65	±8.2@F20	<0.1	<0.1	913±5	571.2	M72	12.5
DTCM16K-216-AL	216	0.273	372±5	59	8.7	>95	±8.6@F16	<0.1	<0.1	1051±5	666.7	M72	15.2
DTCM16K-240H-AL	240	0.246	410±6	59	8.7	>100	±14.6@F22	<0.1	<0.1	1135±6	712.5	M72	20.7
DTCM16K-268-AL	268	0.220	438±6	59	8.7	>95	±13.2@F16	<0.1	<0.1	1250±6	800.0	M72	-
DTCM16K-300-AL	300	0.197	465±6	59	9.0	>95	±20.6@F20	<0.1	<0.1	1268±6	791.0	M72	48.0

DTCM16K-80H-AL



FOV(Φmm)	80
Mag.(x)	0.738
WD(mm)	228±4
Max Sensor Size(Φmm)	59
F/#	13.6
MTF30(lp/mm)	>55
DOF(mm)	±1.6@F22
Distortion(% max)	<0.1
Telecentricity(° max)	<0.1
I/O(mm)	580±4
Length(mm)	340.0
Mount	M72
Weight(kg)	3.4
Field of View (mmxmm)	
KAI-47051 (48.7x29.0)	66.0x39.3
Linescan-16K (57.4mm)	77.8
Linescan-8K (57.4mm)	77.8

DTCM16K-90-AL



FOV(Φmm)	90
Mag.(x)	0.656
WD(mm)	208±3
Max Sensor Size(Φmm)	59
F/#	15.4
MTF30(lp/mm)	>50
DOF(mm)	±1.3@F20
Distortion(% max)	<0.1
Telecentricity(° max)	<0.1
I/O(mm)	595±3
Length(mm)	375.0
Mount	M72
Weight(kg)	3.1
Field of View (mmxmm)	
KAI-47051 (48.7x29.0)	74.2x44.2
Linescan-16K (57.4mm)	87.5
Linescan-8K (57.4mm)	87.5

DTC Series
Bi-Telecentric Lens
with Iris and Coaxial Light

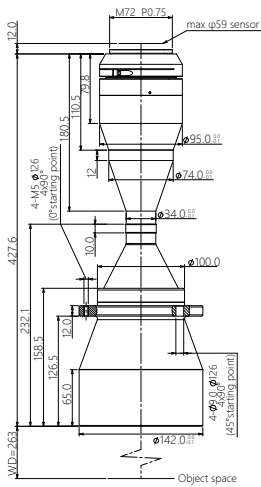
WWK Series
Telecentric Lens for
AOI Inspection

DTC Series
Bi-Telecentric Lens

WWH Series
Megapixel Object Side
Telecentric Lens

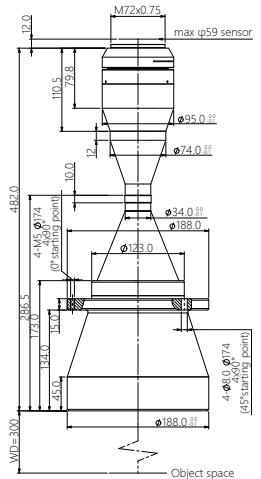
WWL Series
Standard Fixed
Magnification Lens

DTCM16K-110-AL



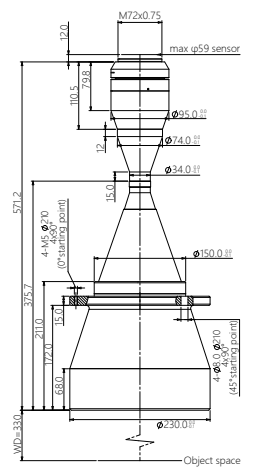
FOV(Φmm)	110
Mag.(x)	0.536
WD(mm)	263±4
Max Sensor Size(Φmm)	59
F/#	12.6
MTF30(lp/mm)	>60
DOF(mm)	±2.8@F20
Distortion(% max)	<0.1
Telecentricity(° max)	<0.1
I/O(mm)	703±4
Length(mm)	427.6
Mount	M72
Weight(kg)	4.1
Field of View (mmxmm)	
KAI-47051 (48.7x29.0)	90.9x54.1
Linescan-16K (57.4mm)	107.1
Linescan-8K (57.4mm)	107.1

DTCM16K-150-AL



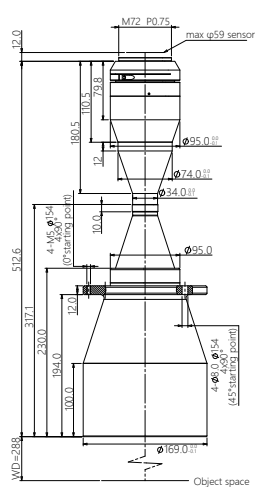
FOV(Φmm)	150
Mag.(x)	0.393
WD(mm)	300±5
Max Sensor Size(Φmm)	59
F/#	19.8
MTF30(lp/mm)	>45
DOF(mm)	±5.1@F20
Distortion(% max)	<0.1
Telecentricity(° max)	<0.1
I/O(mm)	794±5
Length(mm)	482.0
Mount	M72
Weight(kg)	7.1
Field of View (mmxmm)	
KAI-47051 (48.7x29.0)	123.9x73.8
Linescan-16K (57.4mm)	146.1
Linescan-8K (57.4mm)	146.1

DTCM16K-190-AL



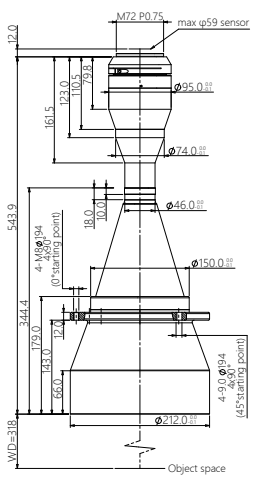
FOV(Φmm)	190
Mag.(x)	0.311
WD(mm)	330±5
Max Sensor Size(Φmm)	59
F/#	13.9
MTF30(lp/mm)	>65
DOF(mm)	±8.2@F20
Distortion(% max)	<0.1
Telecentricity(° max)	<0.1
I/O(mm)	913±5
Length(mm)	571.2
Mount	M72
Weight(kg)	12.5
Field of View (mmxmm)	
KAI-47051 (48.7x29.0)	156.6x93.2
Linescan-16K (57.4mm)	184.6
Linescan-8K (57.4mm)	184.6

DTCM16K-136-AL



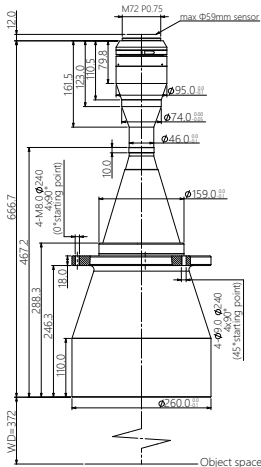
FOV(Φmm)	136
Mag.(x)	0.434
WD(mm)	288±5
Max Sensor Size(Φmm)	59
F/#	10.7
MTF30(lp/mm)	>80
DOF(mm)	±4.2@F20
Distortion(% max)	<0.1
Telecentricity(° max)	<0.1
I/O(mm)	813±5
Length(mm)	512.6
Mount	M72
Weight(kg)	-
Field of View (mmxmm)	
KAI-47051 (48.7x29.0)	112.2x66.8
Linescan-16K (57.4mm)	132.3
Linescan-8K (57.4mm)	132.3

DTCM16K-170-AL



FOV(Φmm)	170
Mag.(x)	0.347
WD(mm)	318±5
Max Sensor Size(Φmm)	59
F/#	8.7
MTF30(lp/mm)	>90
DOF(mm)	±5.3@F16
Distortion(% max)	<0.1
Telecentricity(° max)	<0.1
I/O(mm)	874±5
Length(mm)	543.9
Mount	M72
Weight(kg)	8.0
Field of View (mmxmm)	
KAI-47051 (48.7x29.0)	140.3x83.6
Linescan-16K (57.4mm)	165.4
Linescan-8K (57.4mm)	165.4

DTCM16K-216-AL



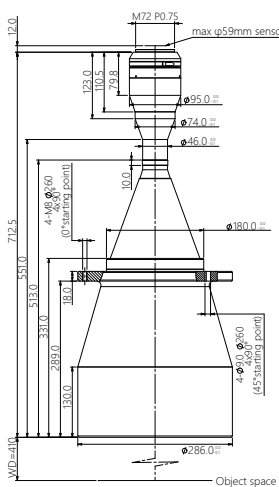
FOV(Φmm)	216
Mag.(x)	0.273
WD(mm)	372±5
Max Sensor Size(Φmm)	59
F/#	8.7
MTF30(lp/mm)	>95
DOF(mm)	±8.6@F16
Distortion(% max)	<0.1
Telecentricity(° max)	<0.1
I/O(mm)	1051±5
Length(mm)	666.7
Mount	M72
Weight(kg)	15.2
Field of View (mmxmm)	
KAI-47051 (48.7x29.0)	178.4x106.2
Linescan-16K (57.4mm)	210.3
Linescan-8K (57.4mm)	210.3

DTCM71M Series

DTCM35F Series

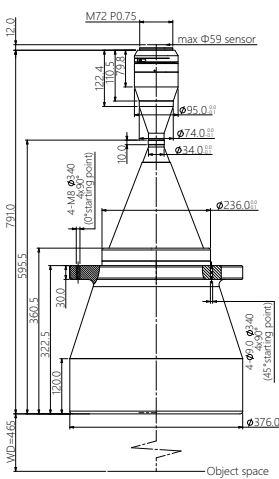
DTCM16K Series

DTCM16K-240H-AL



FOV(Φmm)	240
Mag.(x)	0.246
WD(mm)	410±6
Max Sensor Size(Φmm)	59
F/#	8.7
MTF30(lp/mm)	>100
DOF(mm)	±14.6@F22
Distortion(% max)	<0.1
Telecentricity(° max)	<0.1
I/O(mm)	1135±6
Length(mm)	712.5
Mount	M72
Weight(kg)	20.7
Field of View (mmxmm)	
KAI-47051 (48.7x29.0)	198.0x117.9
Linescan-16K (57.4mm)	233.3
Linescan-8K (57.4mm)	233.3

DTCM16K-300-AL



FOV(Φmm)	300
Mag.(x)	0.197
WD(mm)	465±6
Max Sensor Size(Φmm)	59
F/#	9.0
MTF30(lp/mm)	>95
DOF(mm)	±20.6@F20
Distortion(% max)	<0.1
Telecentricity(° max)	<0.1
I/O(mm)	1268±6
Length(mm)	791.0
Mount	M72
Weight(kg)	48.0
Field of View (mmxmm)	
KAI-47051 (48.7x29.0)	247.2x147.2
Linescan-16K (57.4mm)	291.4
Linescan-8K (57.4mm)	291.4

Product pictures



MFA1-230-5M08



MFA1-230-5M16



MFA1-230-5M50

Accessory products

2/3" Megapixel FA lens

Model:MFA230

Special description
Support 2/3” sensor, 5M pixels camera, has best performance images. Low illumination, large aperture, distortion less than 1%, aggregation ranges from 0.1 to ∞, aperture adjustable, high relative illumination, small volume.

Focal length options:
8mm, 12mm, 16mm, 25mm, 35mm, 50mm, 75mm.

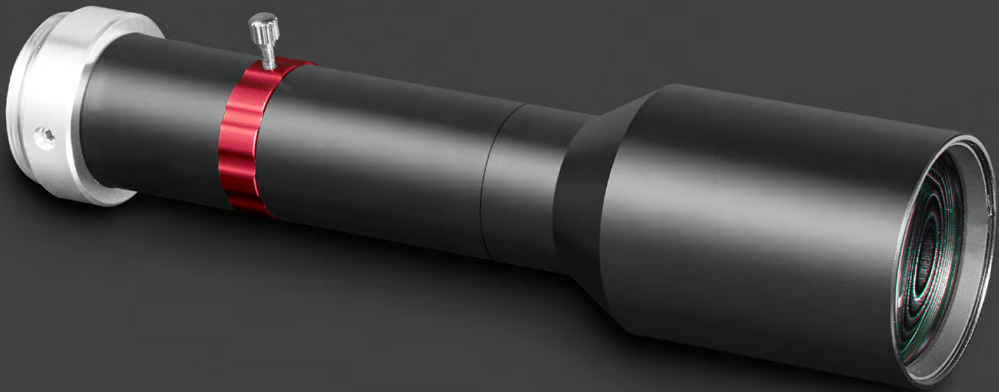
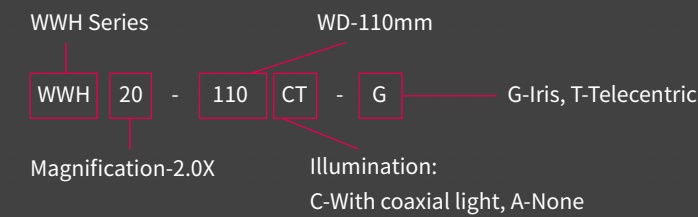
WWH Series

Megapixel telecentric lens

★ Features

- A full range of fixed magnification object side telecentric lenses, many kinds of working distances and magnifications can be chosen from.
- Perfect imaging quality, support for a wide variety of cameras.
- High contrast, low distortion, high definition, and build-in coaxial lighting.
- Variable Iris for best use of balance in DOF and resolution.
- Quickly customization service is available, hundreds of non-standard specifications available for selection.
- Widely used in high-precision visual positioning application.

👤 Name Rule

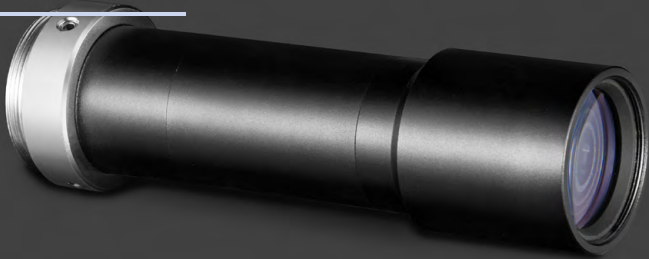


WWH Series-WD 65mm

Megapixel,

Object side

Telecentric

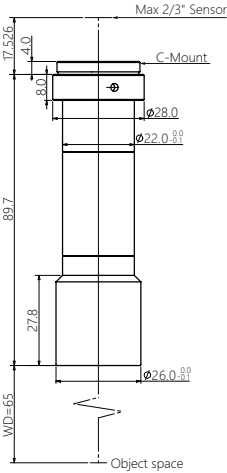


Lens Model	Mag.(x)	WD (mm)	Max Sensor Size (Φmm)	F/#	Telecentricity (° max)	Distortion (% max)	NA	Resolution (um)	DOF (mm)	Length (mm)	Mount
WWH08-65AT	0.8	65±1	11.0(2/3")	10	<0.1	<0.1	0.04	8.4	1.3	89.7	C-Mount
WWH08-65CT	0.8	65±1	11.0(2/3")	10	<0.1	<0.1	0.04	8.4	1.3	89.7	C-Mount
WWH10-65AT	1.0	65±1	11.0(2/3")	11.1	<0.1	<0.1	0.045	7.5	0.9	79.9	C-Mount
WWH10-65CT	1.0	65±1	11.0(2/3")	11.1	<0.1	<0.1	0.045	7.5	0.9	79.9	C-Mount
WWH15-65AT	1.5	65±1	11.0(2/3")	12.5	<0.1	<0.1	0.06	5.6	0.4	74.4	C-Mount
WWH15-65CT	1.5	65±1	11.0(2/3")	12.5	<0.1	<0.1	0.06	5.6	0.4	74.4	C-Mount
WWH20-65AT	2.0	65±1	11.0(2/3")	13.2	<0.1	<0.1	0.074	4.5	0.3	80.0	C-Mount
WWH20-65CT	2.0	65±1	11.0(2/3")	13.2	<0.1	<0.1	0.074	4.5	0.3	80.0	C-Mount
WWH30-65AT	3.0	65±1	11.0(2/3")	20.2	<0.1	1.6	0.0703	4.8	0.2	84.7	C-Mount
WWH30-65CT	3.0	65±1	11.0(2/3")	20.2	<0.1	1.6	0.0703	4.8	0.2	84.7	C-Mount
WWH40-65AT	4.0	65±1	11.0(2/3")	17.9	<0.1	0.13	0.1078	3.1	0.1	101.9	C-Mount
WWH40-65CT	4.0	65±1	11.0(2/3")	17.9	<0.1	0.13	0.1078	3.1	0.1	106.2	C-Mount
WWH60-65AT	6.0	65±1	11.0(2/3")	24.6	<0.1	0.1	0.116	2.9	0.1	116.1	C-Mount
WWH60-65CT	6.0	65±1	11.0(2/3")	24.6	<0.1	0.1	0.116	2.9	0.1	120.4	C-Mount

DTCA Series
Bi-Telecentric Lens
with Iris and Coaxial Light

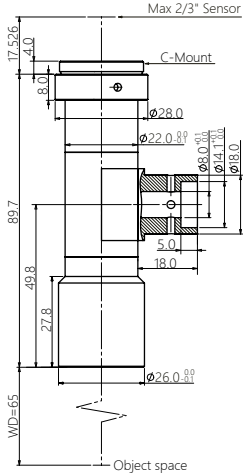
WWK Series
Telecentric Lens for
AOI Inspection

WWH08-65AT



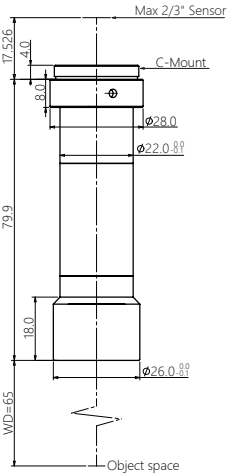
Mag.(x)	0.8
WD(mm)	65±1
Max Sensor Size(Φmm)	11.0(2/3")
F/#	10
Telecentricity(° max)	<0.1
Distortion(% max)	<0.1
NA	0.04
Resolution(μm)	8.4
DOF(mm)	1.3
Length(mm)	89.7
Mount	C-Mount
Field of View (mmxmm)	
1/2"(6.4x4.8)	8.0x6.0
1/1.8"(7.13x5.37)	8.9x6.7
2/3"(8.8x6.6)	11.0x8.3

WWH08-65CT



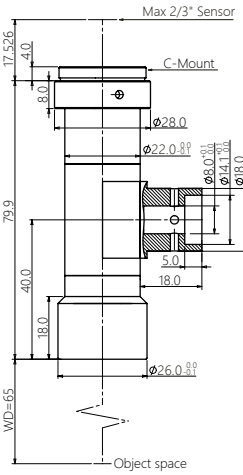
Mag.(x)	0.8
WD(mm)	65±1
Max Sensor Size(Φmm)	11.0(2/3")
F/#	10
Telecentricity(° max)	<0.1
Distortion(% max)	<0.1
NA	0.04
Resolution(μm)	8.4
DOF(mm)	1.3
Length(mm)	89.7
Mount	C-Mount
Field of View (mmxmm)	
1/2"(6.4x4.8)	8.0x6.0
1/1.8"(7.13x5.37)	8.9x6.7
2/3"(8.8x6.6)	11.0x8.3

WWH10-65AT



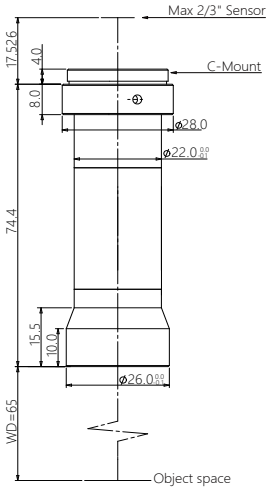
Mag.(x)	1.0
WD(mm)	65±1
Max Sensor Size(Φmm)	11.0(2/3")
F/#	11.1
Telecentricity(° max)	<0.1
Distortion(% max)	<0.1
NA	0.045
Resolution(μm)	7.5
DOF(mm)	0.9
Length(mm)	79.9
Mount	C-Mount
Field of View (mmxmm)	
1/2"(6.4x4.8)	6.4x4.8
1/1.8"(7.13x5.37)	7.13x5.37
2/3"(8.8x6.6)	8.8x6.6

WWH10-65CT



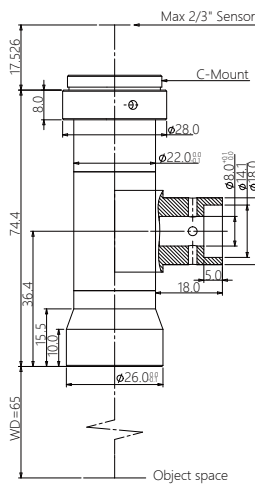
Mag.(x)	1.0
WD(mm)	65±1
Max Sensor Size(Φmm)	11.0(2/3")
F/#	11.1
Telecentricity(° max)	<0.1
Distortion(% max)	<0.1
NA	0.045
Resolution(μm)	7.5
DOF(mm)	0.9
Length(mm)	79.9
Mount	C-Mount
Field of View (mmxmm)	
1/2"(6.4x4.8)	6.4x4.8
1/1.8"(7.13x5.37)	7.13x5.37
2/3"(8.8x6.6)	8.8x6.6

WWH15-65AT



Mag.(x)	1.5
WD(mm)	65±1
Max Sensor Size(Φmm)	11.0(2/3")
F/#	12.5
Telecentricity(° max)	<0.1
Distortion(% max)	<0.1
NA	0.06
Resolution(μm)	5.6
DOF(mm)	0.4
Length(mm)	74.4
Mount	C-Mount
Field of View (mmxmm)	
1/2"(6.4x4.8)	4.3x3.2
1/1.8"(7.13x5.37)	4.8x3.6
2/3"(8.8x6.6)	5.9x4.4

WWH15-65CT



Mag.(x)	1.5
WD(mm)	65±1
Max Sensor Size(Φmm)	11.0(2/3")
F/#	12.5
Telecentricity(° max)	<0.1
Distortion(% max)	<0.1
NA	0.06
Resolution(μm)	5.6
DOF(mm)	0.4
Length(mm)	74.4
Mount	C-Mount
Field of View (mmxmm)	
1/2"(6.4x4.8)	4.3x3.2
1/1.8"(7.13x5.37)	4.8x3.6
2/3"(8.8x6.6)	5.9x4.4

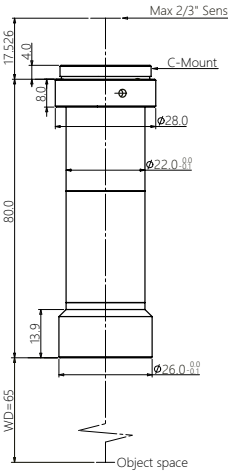
WD 65mm

WD 110mm

WD 130/145mm

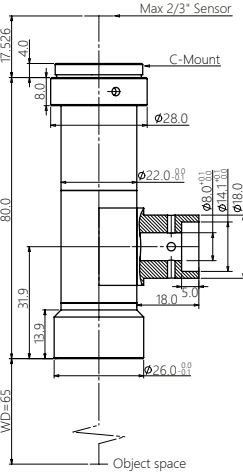
Long WD

WWH20-65AT



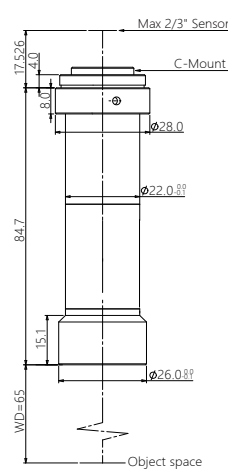
Mag.(x)	2.0
WD(mm)	65±1
Max Sensor Size(Φmm)	11.0(2/3")
F/#	13.2
Telecentricity(° max)	<0.1
Distortion(% max)	<0.1
NA	0.074
Resolution(μm)	4.5
DOF(mm)	0.3
Length(mm)	80.0
Mount	C-Mount
Field of View (mmxmm)	
1/2"(6.4x4.8)	3.2x2.4
1/1.8"(7.13x5.37)	3.6x2.7
2/3"(8.8x6.6)	4.4x3.3

WWH20-65CT



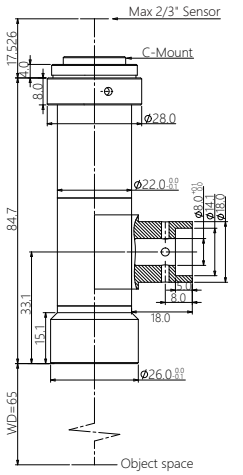
Mag.(x)	2.0
WD(mm)	65±1
Max Sensor Size(Φmm)	11.0(2/3")
F/#	13.2
Telecentricity(° max)	<0.1
Distortion(% max)	<0.1
NA	0.074
Resolution(μm)	4.5
DOF(mm)	0.3
Length(mm)	80.0
Mount	C-Mount
Field of View (mmxmm)	
1/2"(6.4x4.8)	3.2x2.4
1/1.8"(7.13x5.37)	3.6x2.7
2/3"(8.8x6.6)	4.4x3.3

WWH30-65AT



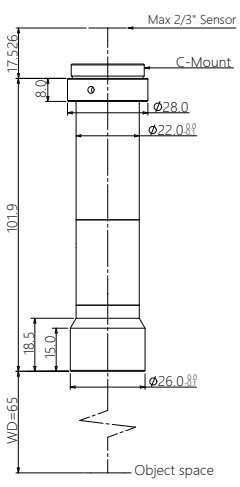
Mag.(x)	3.0
WD(mm)	65±1
Max Sensor Size(Φmm)	11.0(2/3")
F/#	20.2
Telecentricity(° max)	<0.1
Distortion(% max)	<0.1
NA	0.0703
Resolution(μm)	4.8
DOF(mm)	0.2
Length(mm)	84.7
Mount	C-Mount
Field of View (mmxmm)	
1/2"(6.4x4.8)	2.1x1.6
1/1.8"(7.13x5.37)	2.4x1.8
2/3"(8.8x6.6)	2.9x2.2

WWH30-65CT



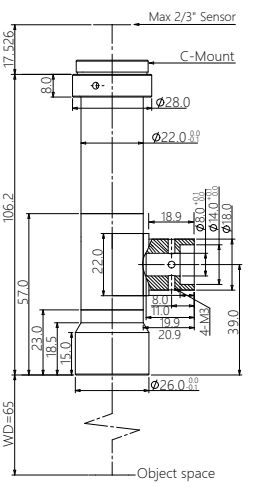
Mag.(x)	3.0
WD(mm)	65±1
Max Sensor Size(Φmm)	11.0(2/3")
F/#	20.2
Telecentricity(° max)	<0.1
Distortion(% max)	<0.1
NA	0.0703
Resolution(μm)	4.8
DOF(mm)	0.2
Length(mm)	84.7
Mount	C-Mount
Field of View (mmxmm)	
1/2"(6.4x4.8)	2.1x1.6
1/1.8"(7.13x5.37)	2.4x1.8
2/3"(8.8x6.6)	2.9x2.2

WWH40-65AT

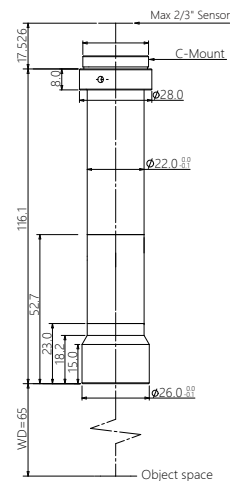


Mag.(x)	4.0
WD(mm)	65±1
Max Sensor Size(Φmm)	11.0(2/3")
F/#	17.9
Telecentricity(° max)	<0.1
Distortion(% max)	<0.1
NA	0.1078
Resolution(μm)	3.1
DOF(mm)	0.1
Length(mm)	101.9
Mount	C-Mount
Field of View (mmxmm)	
1/2"(6.4x4.8)	1.6x1.2
1/1.8"(7.13x5.37)	1.8x1.3
2/3"(8.8x6.6)	2.2x1.7

WWH40-65CT

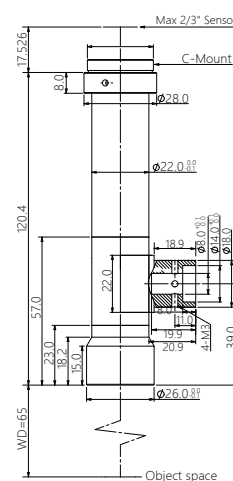


Mag.(x)	4.0
WD(mm)	65±1
Max Sensor Size(Φmm)	11.0(2/3")
F/#	17.9
Telecentricity(° max)	<0.1
Distortion(% max)	<0.1
NA	0.1078
Resolution(μm)	3.1
DOF(mm)	0.1
Length(mm)	106.2
Mount	C-Mount
Field of View (mmxmm)	
1/2"(6.4x4.8)	1.6x1.2
1/1.8"(7.13x5.37)	1.8x1.3
2/3"(8.8x6.6)	2.2x1.7

WWH60-65AT

Mag.(x)	6.0
WD(mm)	65±1
Max Sensor Size(Φmm)	11.0(2/3")
F/#	24.6
Telecentricity(° max)	<0.1
Distortion(% max)	<0.1
NA	0.116
Resolution(μm)	2.9
DOF(mm)	0.1
Length(mm)	116.1
Mount	C-Mount
Field of View (mmxmm)	
1/2"(6.4x4.8)	1.1x0.8
1/1.8"(7.13x5.37)	1.2x0.9
2/3"(8.8x6.6)	1.5x1.1

WWH60-65CT



Mag.(x)	6.0
WD(mm)	65±1
Max Sensor Size(Φmm)	11.0(2/3")
F/#	24.6
Telecentricity(° max)	<0.1
Distortion(% max)	<0.1
NA	0.116
Resolution(μm)	2.9
DOF(mm)	0.1
Length(mm)	120.4
Mount	C-Mount
Field of View (mmxmm)	
1/2"(6.4x4.8)	1.1x0.8
1/1.8"(7.13x5.37)	1.2x0.9
2/3"(8.8x6.6)	1.5x1.1

Products recommendation

Smart vision module with built-in telecentric imaging device

Model: CL series

Special description

Each module integrates one telecentric lens and camera.

Key advantage

0.4Mp analog/digital camera , configurable with various telecentric lenses, suitable for array systems or narrow spaces.

Product pictures



CL08-65AT/633BP



CL20-65CT/633BP



CL30-150AT/633BP



CL30-150CT/633BP

WWH Series-WD 110mm

Megapixel,

Object side

Telecentric



Lens Model	Mag.(x)	WD (mm)	Max Sensor Size (Φmm)	F/#	Telecentricity (° max)	Distortion (% max)	NA	Resolution (μm)	DOF (mm)	Length (mm)	Mount
WWH03-110AT	0.3	110±2	9.0(1/1.8")	9	<0.1	<0.1	0.0167	20.1	8.0	137.1	C-Mount
WWH03-110CT	0.3	110±2	9.0(1/1.8")	9	<0.1	<0.1	0.0167	20.1	8.0	137.1	C-Mount
WWH05-110AT	0.5	110±2	11.0(2/3")	9.6	<0.1	<0.1	0.026	12.9	3.1	135.2	C-Mount
WWH05-110AT-G	0.5	110±2	11.0(2/3")	9.6	<0.1	<0.1	0.026	12.9	3.1	135.2	C-Mount
WWH05-110CT	0.5	110±2	11.0(2/3")	9.6	<0.1	<0.1	0.026	12.9	3.1	135.2	C-Mount
WWH05-110CT-G	0.5	110±2	11.0(2/3")	9.6	<0.1	<0.1	0.026	12.9	3.1	135.2	C-Mount
WWH08-110ATV2	0.8	110±2	11.0(2/3")	7.9	<0.1	<0.1	0.05028	6.7	1.0	122.7	C-Mount
WWH08-110CTV2	0.8	110±2	11.0(2/3")	7.9	<0.1	<0.1	0.05028	6.7	1.0	122.7	C-Mount
WWH10-110ATV2	1.0	110±2	11.0(2/3")	7	<0.1	<0.1	0.07158	4.7	0.6	133.3	C-Mount
WWH10-110AT-G	1.0	110±2	11.0(2/3")	10.7	<0.1	<0.1	0.047	7.1	0.9	133.9	C-Mount
WWH10-110CTV2	1.0	110±2	11.0(2/3")	7	<0.1	<0.1	0.07158	4.7	0.6	133.3	C-Mount
WWH10-110CT-G	1.0	110±2	11.0(2/3")	10.7	<0.1	<0.1	0.047	7.1	0.9	138.2	C-Mount
WWH15-110ATV2	1.5	110±2	11.0(2/3")	10	<0.1	<0.1	0.07488	4.5	0.4	128.9	C-Mount
WWH15-110CTV2	1.5	110±2	11.0(2/3")	10	<0.1	<0.1	0.07488	4.5	0.4	128.9	C-Mount

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DTCA Series
Bi-Telecentric Lens
with Iris and Coaxial Light

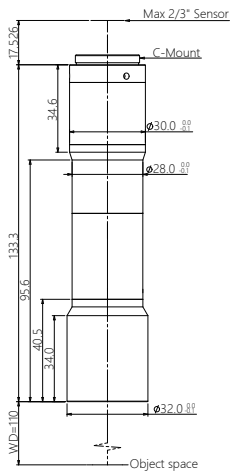
WWK Series
Telecentric Lens for
AOI Inspection

DTCM Series
Bi-Telecentric Lens

WWH Series
Megapixel Object Side
Telecentric Lens

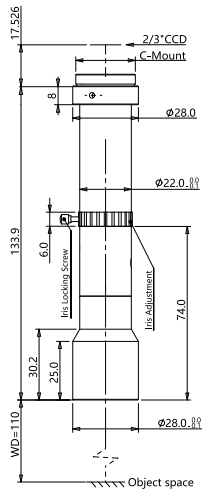
WWL Series
Standard Fixed
Magnification Lens

WWH10-110ATV2 (NEW)



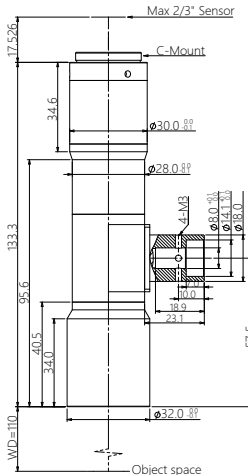
Mag.(x)	1.0
WD(mm)	110±2
Max Sensor Size(Φmm)	11.0(2/3")
F/#	7
Telecentricity(° max)	<0.1
Distortion(% max)	<0.1
NA	0.07158
Resolution(μm)	4.7
DOF(mm)	0.6
Length(mm)	133.3
Mount	C-Mount
Field of View (mmxmm)	
1/2"(6.4x4.8)	6.4x4.8
1/1.8"(7.13x5.37)	7.13x5.37
2/3"(8.8x6.6)	8.8x6.6

WWH10-110AT-G



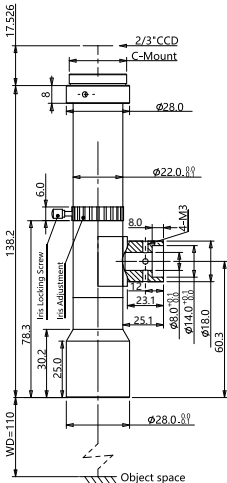
Mag.(x)	1.0
WD(mm)	110±2
Max Sensor Size(Φmm)	11.0(2/3")
F/#	10.7
Telecentricity(° max)	<0.1
Distortion(% max)	<0.1
NA	0.047
Resolution(μm)	7.1
DOF(mm)	0.9
Length(mm)	133.9
Mount	C-Mount
Field of View (mmxmm)	
1/2"(6.4x4.8)	6.4x4.8
1/1.8"(7.13x5.37)	7.13x5.37
2/3"(8.8x6.6)	8.8x6.6

WWH10-110CTV2 (NEW)



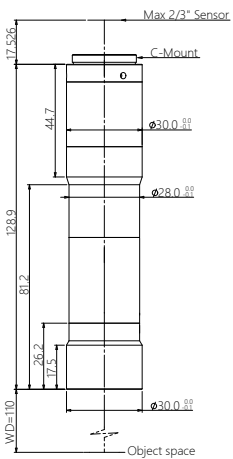
Mag.(x)	1.0
WD(mm)	110±2
Max Sensor Size(Φmm)	11.0(2/3")
F/#	7
Telecentricity(° max)	<0.1
Distortion(% max)	<0.1
NA	0.07158
Resolution(μm)	4.7
DOF(mm)	0.6
Length(mm)	133.3
Mount	C-Mount
Field of View (mmxmm)	
1/2"(6.4x4.8)	6.4x4.8
1/1.8"(7.13x5.37)	7.13x5.37
2/3"(8.8x6.6)	8.8x6.6

WWH10-110CT-G



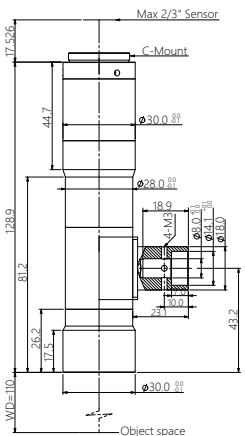
Mag.(x)	1.0
WD(mm)	110±2
Max Sensor Size(Φmm)	11.0(2/3")
F/#	10.7
Telecentricity(° max)	<0.1
Distortion(% max)	<0.1
NA	0.047
Resolution(μm)	7.1
DOF(mm)	0.9
Length(mm)	138.2
Mount	C-Mount
Field of View (mmxmm)	
1/2"(6.4x4.8)	6.4x4.8
1/1.8"(7.13x5.37)	7.13x5.37
2/3"(8.8x6.6)	8.8x6.6

WWH15-110ATV2 (NEW)



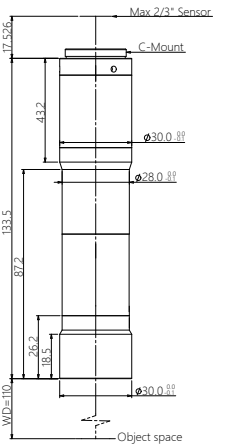
Mag.(x)	1.5
WD(mm)	110±2
Max Sensor Size(Φmm)	11.0(2/3")
F/#	10
Telecentricity(° max)	<0.1
Distortion(% max)	<0.1
NA	0.07488
Resolution(μm)	4.5
DOF(mm)	0.4
Length(mm)	128.9
Mount	C-Mount
Field of View (mmxmm)	
1/2"(6.4x4.8)	4.3x3.2
1/1.8"(7.13x5.37)	4.8x3.6
2/3"(8.8x6.6)	5.9x4.4

WWH15-110CTV2 (NEW)



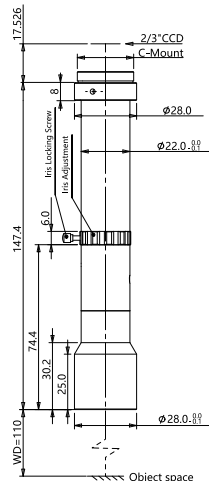
Mag.(x)	1.5
WD(mm)	110±2
Max Sensor Size(Φmm)	11.0(2/3")
F/#	10
Telecentricity(° max)	<0.1
Distortion(% max)	<0.1
NA	0.07488
Resolution(μm)	4.5
DOF(mm)	0.4
Length(mm)	128.9
Mount	C-Mount
Field of View (mmxmm)	
1/2"(6.4x4.8)	4.3x3.2
1/1.8"(7.13x5.37)	4.8x3.6
2/3"(8.8x6.6)	5.9x4.4

WWH20-110ATV2 (NEW)



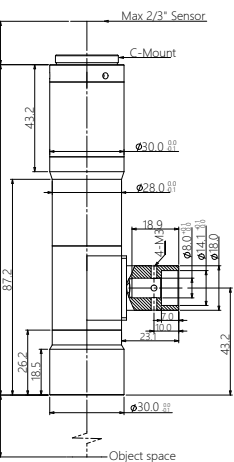
Mag.(x)	2.0
WD(mm)	110±2
Max Sensor Size(Φmm)	11.0(2/3")
F/#	12.2
Telecentricity(° max)	<0.1
Distortion(% max)	<0.1
NA	0.0815
Resolution(μm)	4.1
DOF(mm)	0.2
Length(mm)	133.5
Mount	C-Mount
Field of View (mmxmm)	
1/2"(6.4x4.8)	3.2x2.4
1/1.8"(7.13x5.37)	3.6x2.7
2/3"(8.8x6.6)	4.4x3.3

WWH20-110AT-G



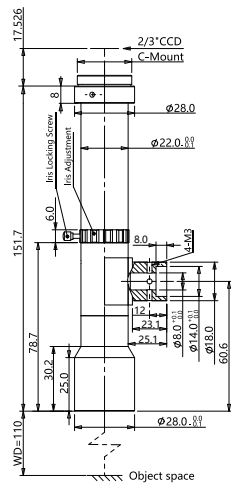
Mag.(x)	2.0
WD(mm)	110±2
Max Sensor Size(Φmm)	11.0(2/3")
F/#	18.2
Telecentricity(° max)	<0.1
Distortion(% max)	<0.1
NA	0.0536
Resolution(μm)	6.3
DOF(mm)	0.4
Length(mm)	147.4
Mount	C-Mount
Field of View (mmxmm)	
1/2"(6.4x4.8)	3.2x2.4
1/1.8"(7.13x5.37)	3.6x2.7
2/3"(8.8x6.6)	4.4x3.3

WWH20-110CTV2 (NEW)



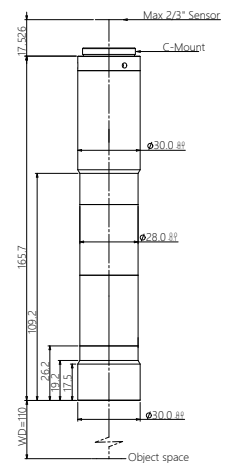
Mag.(x)	2.0
WD(mm)	110±2
Max Sensor Size(Φmm)	11.0(2/3")
F/#	12.2
Telecentricity(° max)	<0.1
Distortion(% max)	<0.1
NA	0.0815
Resolution(μm)	4.1
DOF(mm)	0.2
Length(mm)	133.5
Mount	C-Mount
Field of View (mmxmm)	
1/2"(6.4x4.8)	3.2x2.4
1/1.8"(7.13x5.37)	3.6x2.7
2/3"(8.8x6.6)	4.4x3.3

WWH20-110CT-G



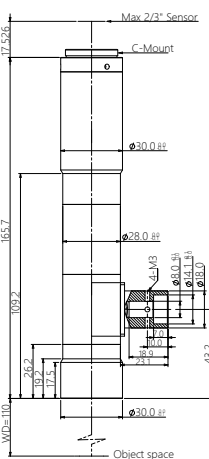
Mag.(x)	2.0
WD(mm)	110±2
Max Sensor Size(Φmm)	11.0(2/3")
F/#	18.2
Telecentricity(° max)	<0.1
Distortion(% max)	<0.1
NA	0.0536
Resolution(μm)	6.3
DOF(mm)	0.4
Length(mm)	151.7
Mount	C-Mount
Field of View (mmxmm)	
1/2"(6.4x4.8)	3.2x2.4
1/1.8"(7.13x5.37)	3.6x2.7
2/3"(8.8x6.6)	4.4x3.3

WWH30-110ATV2 (NEW)



Mag.(x)	3.0
WD(mm)	110±2
Max Sensor Size(Φmm)	11.0(2/3")
F/#	18.3
Telecentricity(° max)	<0.1
Distortion(% max)	<0.1
NA	0.08255
Resolution(μm)	4.1
DOF(mm)	0.2
Length(mm)	165.7
Mount	C-Mount
Field of View (mmxmm)	
1/2"(6.4x4.8)	2.1x1.6
1/1.8"(7.13x5.37)	2.4x1.8
2/3"(8.8x6.6)	2.9x2.2

WWH30-110CTV2 (NEW)



Mag.(x)	3.0
WD(mm)	110±2
Max Sensor Size(Φmm)	11.0(2/3")
F/#	18.3
Telecentricity(° max)	<0.1
Distortion(% max)	<0.1
NA	0.08255
Resolution(μm)	4.1
DOF(mm)	0.2
Length(mm)	165.7
Mount	C-Mount
Field of View (mmxmm)	
1/2"(6.4x4.8)	2.1x1.6
1/1.8"(7.13x5.37)	2.4x1.8
2/3"(8.8x6.6)	2.9x2.2

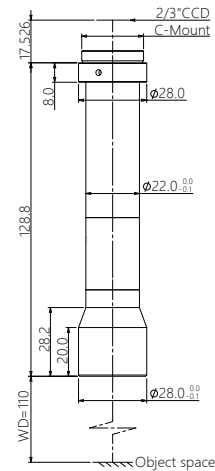
WD 65mm

WD 110mm

WD 130/145mm

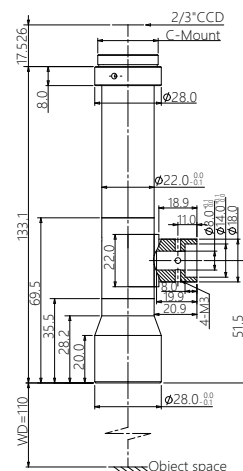
Long WD

WWH40-110AT



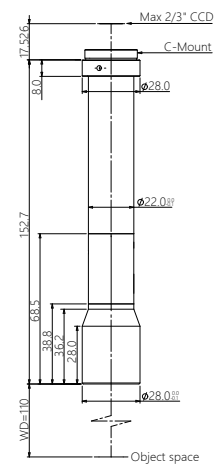
Mag.(x)	4.0
WD(mm)	110±2
Max Sensor Size(Φmm)	11.0(2/3")
F/#	25.6
Telecentricity(° max)	<0.1
Distortion(% max)	<0.1
NA	0.075
Resolution(μm)	4.5
DOF(mm)	0.1
Length(mm)	128.8
Mount	C-Mount
Field of View (mmxmm)	
1/2" (6.4x4.8)	1.6x1.2
1/1.8" (7.13x5.37)	1.8x1.3
2/3" (8.8x6.6)	2.2x1.7

WWH40-110CT



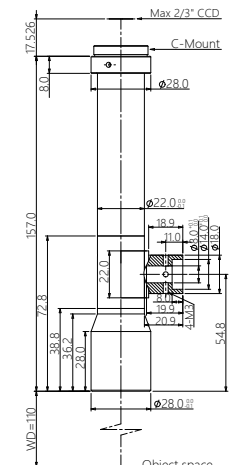
Mag.(x)	4.0
WD(mm)	110±2
Max Sensor Size(Φmm)	11.0(2/3")
F/#	25.6
Telecentricity(° max)	<0.1
Distortion(% max)	<0.1
NA	0.075
Resolution(μm)	4.5
DOF(mm)	0.1
Length(mm)	133.1
Mount	C-Mount
<hr/>	
Field of View (mmxmm)	
1/2"(6.4x4.8)	1.6x1.2
1/1.8"(7.13x5.37)	1.8x1.3
2/3"(8.8x6.6)	2.2x1.7

WWH60-110AT



Mag.(x)	6.0
WD(mm)	110±2
Max Sensor Size(Φmm)	11.0(2/3")
F/#	38.9
Telecentricity(° max)	<0.1
Distortion(% max)	<0.1
NA	0.075
Resolution(μm)	4.5
DOF(mm)	0.1
Length(mm)	152.7
Mount	C-Mount
Field of View (mmxmm)	
1/2"(6.4x4.8)	1.1x0.8
1/1.8"(7.13x5.37)	1.2x0.9
2/3"(8.8x6.6)	1.5x1.1

WWH60-110CT



Mag.(x)	6.0
WD(mm)	110±2
Max Sensor Size(Φmm)	11.0(2/3")
F/#	38.9
Telecentricity(° max)	<0.1
Distortion(% max)	<0.1
NA	0.075
Resolution(μm)	4.5
DOF(mm)	0.1
Length(mm)	157.0
Mount	C-Mount
Field of View (mmxmm)	
1/2"(6.4x4.8)	1.1x0.8
1/1.8"(7.13x5.37)	1.2x0.9
2/3"(8.8x6.6)	1.5x1.1

Accessory products

L-type and Z-type deflecting prisms

Description

Light path turning device which placed in front of lens:
Be used for various vico lens.



L-type deflecting prisms



Z-type deflecting prisms

We love telecentric imaging.

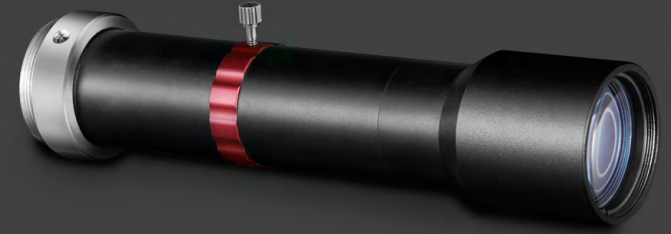
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WWH Series-WD 130/145mm

Megapixel,

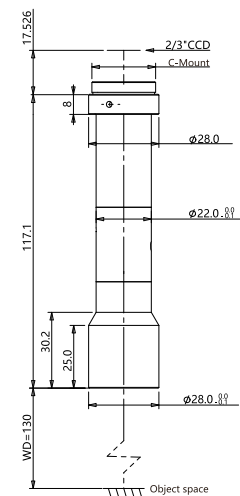
Object side

Telecentric



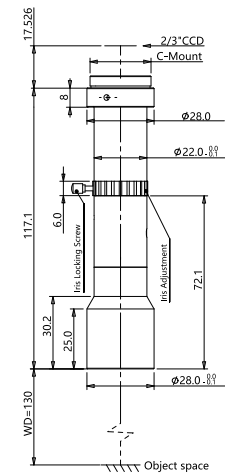
Lens Model	Mag.(x)	WD (mm)	Max Sensor Size (Φmm)	F/#	Telecentricity (° max)	Distortion (% max)	NA	Resolution (um)	DOF (mm)	Length (mm)	Mount
WWH08-130AT	0.8	130±2	11.0(2/3")	12.6	<0.1	<0.1	0.0316	10.6	1.6	117.1	C-Mount
WWH08-130AT-G	0.8	130±2	11.0(2/3")	12.6	<0.1	<0.1	0.0316	10.6	1.6	117.1	C-Mount
WWH08-130CT	0.8	130±2	11.0(2/3")	12.6	<0.1	<0.1	0.0316	10.6	1.6	121.4	C-Mount
WWH08-130CT-G	0.8	130±2	11.0(2/3")	12.6	<0.1	<0.1	0.0316	10.6	1.6	121.4	C-Mount
WWH07-145AT	0.7	145±2	11.0(2/3")	16.8	<0.1	<0.1	0.0207	16.2	2.7	110.4	C-Mount
WWH07-145AT-G	0.7	145±2	11.0(2/3")	16.8	<0.1	<0.1	0.0207	16.2	2.7	110.4	C-Mount
WWH07-145CT	0.7	145±2	11.0(2/3")	16.8	<0.1	<0.1	0.0207	16.2	2.7	114.7	C-Mount
WWH07-145CT-G	0.7	145±2	11.0(2/3")	16.8	<0.1	<0.1	0.0207	16.2	2.7	114.7	C-Mount

WWH08-130AT



Mag.(x)	0.8
WD(mm)	130±2
Max Sensor Size(Φmm)	11.0(2/3")
F/#	12.6
Telecentricity(° max)	<0.1
Distortion(% max)	<0.1
NA	0.0316
Resolution(μm)	10.6
DOF(mm)	1.6
Length(mm)	117.1
Mount	C-Mount
Field of View (mmxmm)	
1/2"(6.4x4.8)	8.0x6.0
1/1.8"(7.13x5.37)	8.9x6.7
2/3"(8.8x6.6)	11.0x8.3

WWH08-130AT-G



Mag.(x)	0.8
WD(mm)	130±2
Max Sensor Size(Φmm)	11.0(2/3")
F/#	12.6
Telecentricity(° max)	<0.1
Distortion(% max)	<0.1
NA	0.0316
Resolution(μm)	10.6
DOF(mm)	1.6
Length(mm)	117.1
Mount	C-Mount
Field of View (mmxmm)	
1/2"(6.4x4.8)	8.0x6.0
1/1.8"(7.13x5.37)	8.9x6.7
2/3"(8.8x6.6)	11.0x8.3

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DTCA Series
Bi-Telecentric Lens
with Iris and Coaxial Light

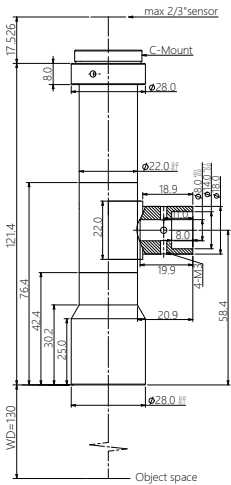
WWK Series
Telecentric Lens for
AOI Inspection

DTCM Series
Bi-Telecentric Lens

WWH Series
Megapixel Object Side
Telecentric Lens

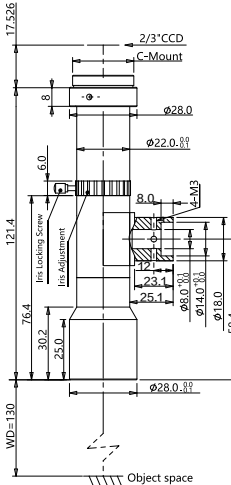
WWL Series
Standard Fixed
Magnification Lens

WWH08-130CT



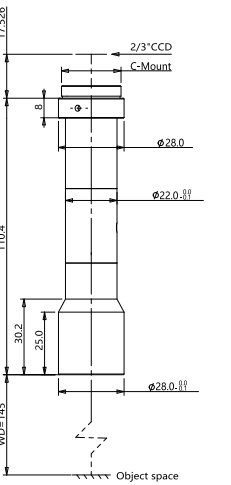
Mag.(x)	0.8
WD(mm)	130±2
Max Sensor Size(Φmm)	11.0(2/3")
F/#	12.6
Telecentricity(° max)	<0.1
Distortion(% max)	<0.1
NA	0.0316
Resolution(μm)	10.6
DOF(mm)	1.6
Length(mm)	121.4
Mount	C-Mount
Field of View (mmxmm)	
1/2"(6.4x4.8)	8.0x6.0
1/1.8"(7.13x5.37)	8.9x6.7
2/3"(8.8x6.6)	11.0x8.3

WWH08-130CT-G



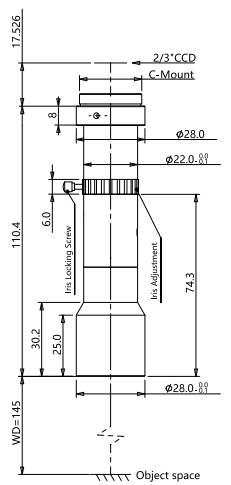
Mag.(x)	0.8
WD(mm)	130±2
Max Sensor Size(Φmm)	11.0(2/3")
F/#	12.6
Telecentricity(° max)	<0.1
Distortion(% max)	<0.1
NA	0.0316
Resolution(μm)	10.6
DOF(mm)	1.6
Length(mm)	121.4
Mount	C-Mount
Field of View (mmxmm)	
1/2"(6.4x4.8)	8.0x6.0
1/1.8"(7.13x5.37)	8.9x6.7
2/3"(8.8x6.6)	11.0x8.3

WWH07-145AT



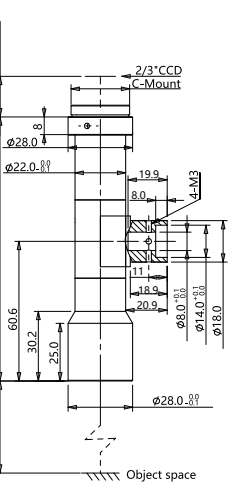
Mag.(x)	0.7
WD(mm)	145±2
Max Sensor Size(Φmm)	11.0(2/3")
F/#	16.8
Telecentricity(° max)	<0.1
Distortion(% max)	<0.1
NA	0.0207
Resolution(μm)	16.2
DOF(mm)	2.7
Length(mm)	110.4
Mount	C-Mount
Field of View (mmxmm)	
1/2"(6.4x4.8)	9.1x6.9
1/1.8"(7.13x5.37)	10.2x7.7
2/3"(8.8x6.6)	12.6x9.4

WWH07-145AT-G



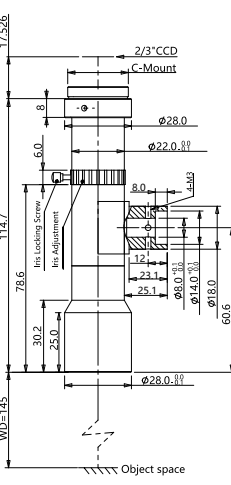
Mag.(x)	0.7
WD(mm)	145±2
Max Sensor Size(Φmm)	11.0(2/3")
F/#	16.8
Telecentricity(° max)	<0.1
Distortion(% max)	<0.1
NA	0.0207
Resolution(μm)	16.2
DOF(mm)	2.7
Length(mm)	110.4
Mount	C-Mount
Field of View (mmxmm)	
1/2"(6.4x4.8)	9.1x6.9
1/1.8"(7.13x5.37)	10.2x7.7
2/3"(8.8x6.6)	12.6x9.4

WWH07-145CT



Mag.(x)	0.7
WD(mm)	145±2
Max Sensor Size(Φmm)	11.0(2/3")
F/#	16.8
Telecentricity(° max)	<0.1
Distortion(% max)	<0.1
NA	0.0207
Resolution(μm)	16.2
DOF(mm)	2.7
Length(mm)	114.7
Mount	C-Mount
Field of View (mmxmm)	
1/2"(6.4x4.8)	9.1x6.9
1/1.8"(7.13x5.37)	10.2x7.7
2/3"(8.8x6.6)	12.6x9.4

WWH07-145CT-G



Mag.(x)	0.7
WD(mm)	145±2
Max Sensor Size(Φmm)	11.0(2/3")
F/#	16.8
Telecentricity(° max)	<0.1
Distortion(% max)	<0.1
NA	0.0207
Resolution(μm)	16.2
DOF(mm)	2.7
Length(mm)	114.7
Mount	C-Mount
Field of View (mmxmm)	
1/2"(6.4x4.8)	9.1x6.9
1/1.8"(7.13x5.37)	10.2x7.7
2/3"(8.8x6.6)	12.6x9.4

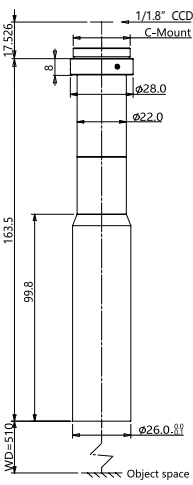
WWH Series-Long WD

Megapixel,
Object side
Telecentric



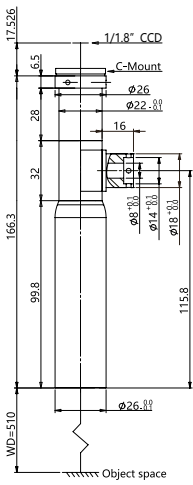
Lens Model	Mag.(x)	WD (mm)	Max Sensor Size (Φmm)	F/#	Telecentricity (° max)	Distortion (% max)	NA	Resolution (μm)	DOF (mm)	Length (mm)	Mount
WWH05-510AT	0.5	510±3	9.0(1/1.8")	14.2	/	<0.1	0.0174	19.3	4.5	163.5	C-Mount
WWH05-510CT	0.5	510±3	9.0(1/1.8")	14.2	/	<0.1	0.0174	19.3	4.5	166.3	C-Mount
WWH10-330AT	1.0	330±3	11.0(2/3")	28.6	<0.1	<0.1	0.0174	19.3	2.3	199.7	C-Mount
WWH10-330CT	1.0	330±3	11.0(2/3")	28.6	<0.1	<0.1	0.0174	19.3	2.3	197.6	C-Mount
WWH10-410AT	1.0	410±3	11.0(2/3")	17.9	<0.1	<0.1	0.0273	12.3	1.4	178.9	C-Mount
WWH10-410CT	1.0	410±3	11.0(2/3")	17.9	<0.1	<0.1	0.0273	12.3	1.4	182.2	C-Mount
WWH10-510AT	1.0	510±3	11.0(2/3")	25.7	<0.1	<0.1	0.0197	17.0	2.1	175.0	C-Mount
WWH10-510CT	1.0	510±3	11.0(2/3")	25.7	<0.1	<0.1	0.0197	17.0	2.1	178.5	C-Mount

WWH05-510AT



Mag.(x)	0.5
WD(mm)	510±3
Max Sensor Size(Φmm)	9.0(1/1.8")
F/#	14.2
Telecentricity(° max)	/
Distortion(% max)	<0.1
NA	0.0174
Resolution(μm)	19.3
DOF(mm)	4.5
Length(mm)	163.5
Mount	C-Mount
Field of View (mmxmm)	
1/3"(4.8x3.6)	9.6x7.2
1/2"(6.4x4.8)	13.0x9.6
1/1.8"(7.13x5.37)	14.0x11.0

WWH05-510CT



Mag.(x)	0.5
WD(mm)	510±3
Max Sensor Size(Φmm)	9.0(1/1.8")
F/#	14.2
Telecentricity(° max)	/
Distortion(% max)	<0.1
NA	0.0174
Resolution(μm)	19.3
DOF(mm)	4.5
Length(mm)	166.3
Mount	C-Mount
Field of View (mmxmm)	
1/3"(4.8x3.6)	9.6x7.2
1/2"(6.4x4.8)	13.0x9.6
1/1.8"(7.13x5.37)	14.0x11.0

WD 65mm

WD 110mm

WD 130/145mm

Long WD

DTCA Series
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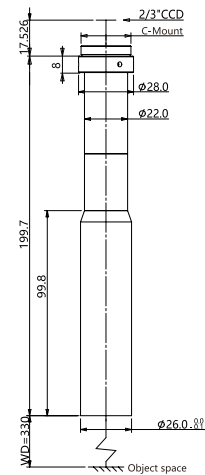
WWK Series
Telecentric Lens for
AOI Inspection

DTCM Series
Bi-Telecentric Lens

WWH Series
Megapixel Object Side
Telecentric Lens

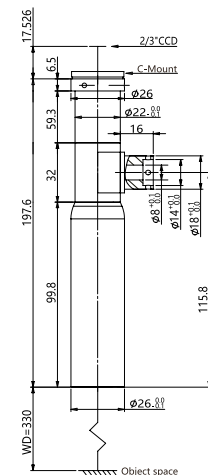
WWL Series
Standard Fixed
Magnification Lens

WWH10-330AT



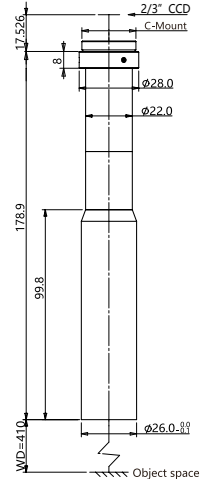
Mag.(x)	1.0
WD(mm)	330±3
Max Sensor Size(Φmm)	11.0(2/3")
F/#	28.6
Telecentricity(° max)	<0.1
Distortion(% max)	<0.1
NA	0.0174
Resolution(μm)	19.3
DOF(mm)	2.3
Length(mm)	199.7
Mount	C-Mount
Field of View (mmxmm)	
1/2"(6.4x4.8)	6.4x4.8
1/1.8"(7.13x5.37)	7.13x5.37
2/3"(8.8x6.6)	8.8x6.6

WWH10-330CT



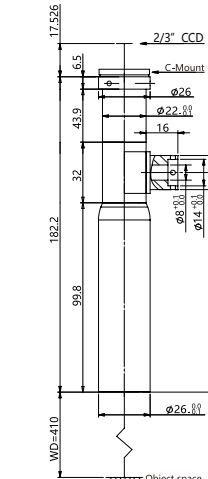
Mag.(x)	1.0
WD(mm)	330±3
Max Sensor Size(Φmm)	11.0(2/3")
F/#	28.6
Telecentricity(° max)	<0.1
Distortion(% max)	<0.1
NA	0.0174
Resolution(μm)	19.3
DOF(mm)	2.3
Length(mm)	197.6
Mount	C-Mount
Field of View (mmxmm)	
1/2"(6.4x4.8)	6.4x4.8
1/1.8"(7.13x5.37)	7.13x5.37
2/3"(8.8x6.6)	8.8x6.6

WWH10-410AT



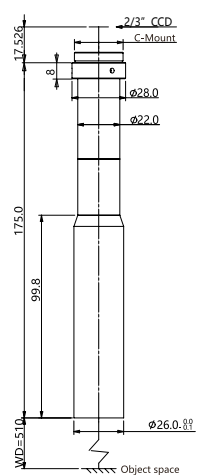
Mag.(x)	1.0
WD(mm)	410±3
Max Sensor Size(Φmm)	11.0(2/3")
F/#	17.9
Telecentricity(° max)	<0.1
Distortion(% max)	<0.1
NA	0.0273
Resolution(μm)	12.3
DOF(mm)	1.4
Length(mm)	178.9
Mount	C-Mount
Field of View (mmxmm)	
1/2"(6.4x4.8)	6.4x4.8
1/1.8"(7.13x5.37)	7.13x5.37
2/3"(8.8x6.6)	8.8x6.6

WWH10-410CT



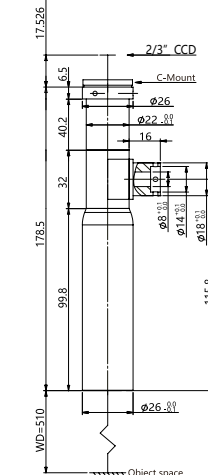
Mag.(x)	1.0
WD(mm)	410±3
Max Sensor Size(Φmm)	11.0(2/3")
F/#	17.9
Telecentricity(° max)	<0.1
Distortion(% max)	<0.1
NA	0.0273
Resolution(μm)	12.3
DOF(mm)	1.4
Length(mm)	182.2
Mount	C-Mount
Field of View (mmxmm)	
1/2"(6.4x4.8)	6.4x4.8
1/1.8"(7.13x5.37)	7.13x5.37
2/3"(8.8x6.6)	8.8x6.6

WWH10-510AT



Mag.(x)	1.0
WD(mm)	510±3
Max Sensor Size(Φmm)	11.0(2/3")
F/#	25.7
Telecentricity(° max)	<0.1
Distortion(% max)	<0.1
NA	0.0197
Resolution(μm)	17.0
DOF(mm)	2.1
Length(mm)	175.0
Mount	C-Mount
Field of View (mmxmm)	
1/2"(6.4x4.8)	6.4x4.8
1/1.8"(7.13x5.37)	7.13x5.37
2/3"(8.8x6.6)	8.8x6.6

WWH10-510CT



Mag.(x)	1.0
WD(mm)	510±3
Max Sensor Size(Φmm)	11.0(2/3")
F/#	25.7
Telecentricity(° max)	<0.1
Distortion(% max)	<0.1
NA	0.0197
Resolution(μm)	17.0
DOF(mm)	2.1
Length(mm)	178.5
Mount	C-Mount
Field of View (mmxmm)	
1/2"(6.4x4.8)	6.4x4.8
1/1.8"(7.13x5.37)	7.13x5.37
2/3"(8.8x6.6)	8.8x6.6

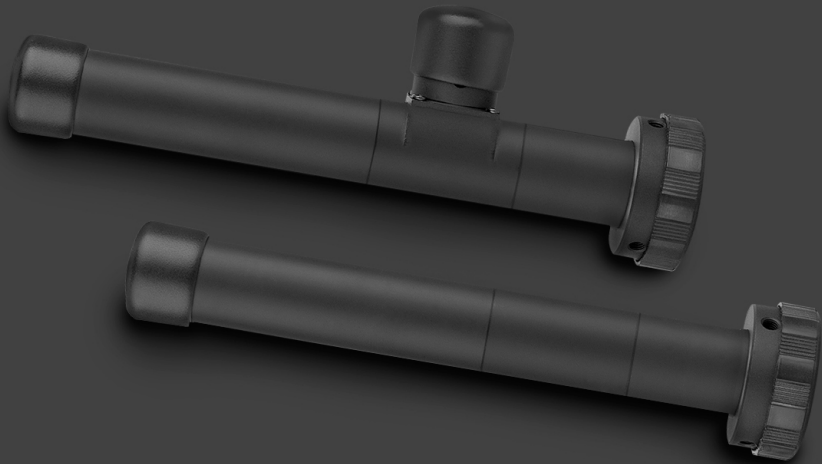
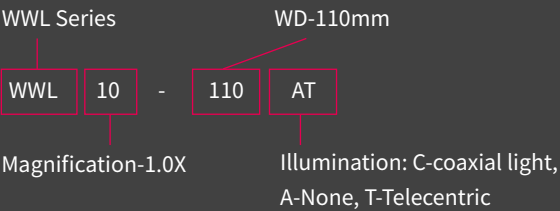
WWL Series

Standard/ Fixed magnification telecentric lens

★ Features

- A full range of fixed magnification object side telecentric lenses, many kinds of working distances and magnifications can be chosen from.
- Φ16mm diameter, suitable for space-limited industrial applications.
- Quickly customization service is available, hundreds of non-standard specifications available for selection.
- Excellent cost performance, significantly lowered the threshold for industry application.

👤 Name Rule



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Bi-Telecentric Lens
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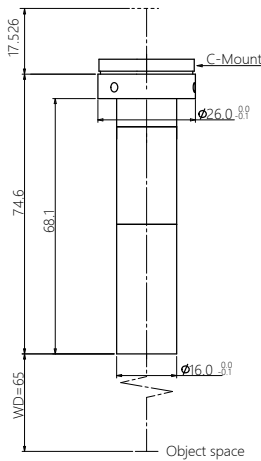
WWK Series
Telecentric Lens for
AOI Inspection

DTCM Series
Bi-Telecentric Lens

WWH Series
Megapixel Object Side
Telecentric Lens

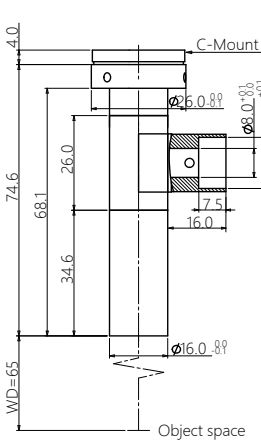
WWL Series
Standard Fixed
Magnification Lens

WWL15-65AT



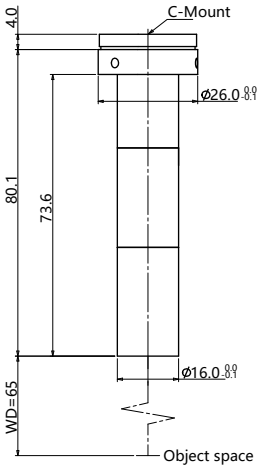
Mag.(x)	1.5
WD(mm)	65
Max Sensor Size(Φmm)	6.0(1/3")
F/#	12
NA	0.06189
Resolution(μm)	5.4
DOF(mm)	0.4
Length(mm)	74.6
Mount	C-Mount
Field of View (mmxmm)	
1/4"(3.2x2.4)	2.1x1.6
1/3"(4.8x3.6)	3.2x2.4

WWL15-65CT



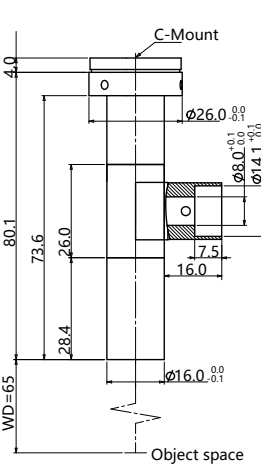
Mag.(x)	1.5
WD(mm)	65
Max Sensor Size(Φmm)	6.0(1/3")
F/#	12
NA	0.06189
Resolution(μm)	5.4
DOF(mm)	0.4
Length(mm)	74.6
Mount	C-Mount
Field of View (mmxmm)	
1/4"(3.2x2.4)	2.1x1.6
1/3"(4.8x3.6)	3.2x2.4

WWL20-65AT



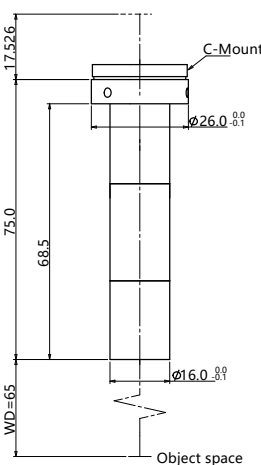
Mag.(x)	2.0
WD(mm)	65
Max Sensor Size(Φmm)	6.0(1/3")
F/#	13.7
NA	0.07187
Resolution(μm)	4.7
DOF(mm)	0.3
Length(mm)	80.1
Mount	C-Mount
Field of View (mmxmm)	
1/4"(3.2x2.4)	1.6x1.2
1/3"(4.8x3.6)	2.4x1.8

WWL20-65CT



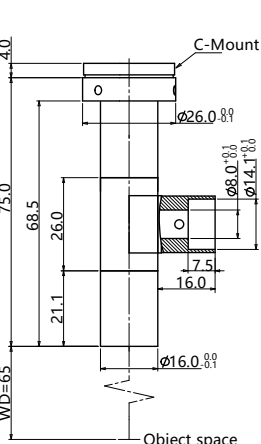
Mag.(x)	2.0
WD(mm)	65
Max Sensor Size(Φmm)	6.0(1/3")
F/#	13.7
NA	0.07187
Resolution(μm)	4.7
DOF(mm)	0.3
Length(mm)	80.1
Mount	C-Mount
Field of View (mmxmm)	
1/4"(3.2x2.4)	1.6x1.2
1/3"(4.8x3.6)	2.4x1.8

WWL30-65A



Mag.(x)	3.0
WD(mm)	65
Max Sensor Size(Φmm)	6.0(1/3")
F/#	24.8
NA	0.05872
Resolution(μm)	5.7
DOF(mm)	0.2
Length(mm)	75.0
Mount	C-Mount
Field of View (mmxmm)	
1/4"(3.2x2.4)	1.1x0.8
1/3"(4.8x3.6)	1.6x1.2

WWL30-65C



Mag.(x)	3.0
WD(mm)	65
Max Sensor Size(Φmm)	6.0(1/3")
F/#	24.8
NA	0.05872
Resolution(μm)	5.7
DOF(mm)	0.2
Length(mm)	75.0
Mount	C-Mount
Field of View (mmxmm)	
1/4"(3.2x2.4)	1.1x0.8
1/3"(4.8x3.6)	1.6x1.2

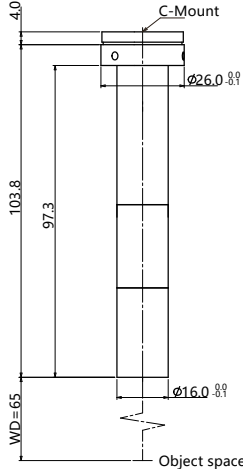
WD 65mm

WD 110/130mm

WD 150mm

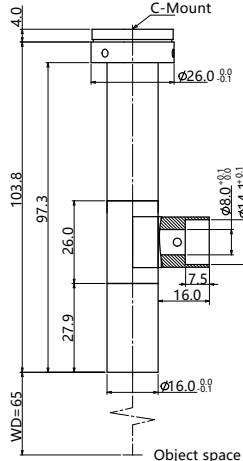
WD 250mm

WWL40-65A



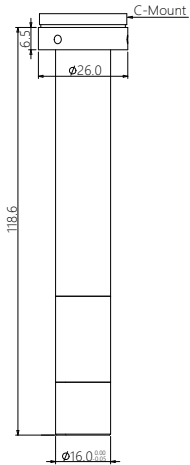
Mag.(x)	4.0
WD(mm)	65
Max Sensor Size(Φmm)	6.0(1/3")
F/#	34.9
NA	0.05619
Resolution(μm)	6.0
DOF(mm)	0.2
Length(mm)	103.8
Mount	C-Mount
Field of View (mmxmm)	
1/4"(3.2x2.4)	0.8x0.6
1/3"(4.8x3.6)	1.2x0.9

WWL40-65C



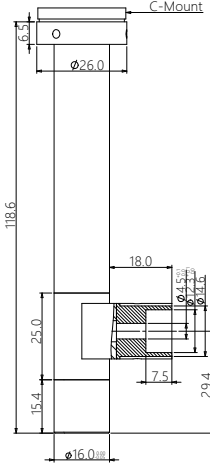
Mag.(x)	4.0
WD(mm)	65
Max Sensor Size(Φmm)	6.0(1/3")
F/#	34.9
NA	0.05619
Resolution(μm)	6.0
DOF(mm)	0.2
Length(mm)	103.8
Mount	C-Mount
Field of View (mmxmm)	
1/4"(3.2x2.4)	0.8x0.6
1/3"(4.8x3.6)	1.2x0.9

WWL60-65AT



Mag.(x)	6.0
WD(mm)	65
Max Sensor Size(Φmm)	6.0(1/3")
F/#	39.2
NA	0.073
Resolution(μm)	4.6
DOF(mm)	0.1
Length(mm)	118.6
Mount	C-Mount
Field of View (mmxmm)	
1/4"(3.2x2.4)	0.5x0.4
1/3"(4.8x3.6)	0.8x0.6

WWL60-65CT



Mag.(x)	6.0
WD(mm)	65
Max Sensor Size(Φmm)	6.0(1/3")
F/#	39.2
NA	0.073
Resolution(μm)	4.6
DOF(mm)	0.1
Length(mm)	118.6
Mount	C-Mount
Field of View (mmxmm)	
1/4"(3.2x2.4)	0.5x0.4
1/3"(4.8x3.6)	0.8x0.6

Specialty products

Long working distance positioning lens

Model: WWS series

Special Description

Long working distance + Small field of view industrial lens.

Key advantage

Customized products for special machines.



WWS04-220FC



WWS20-150R

WWL Series-WD 110/130mm

Support 1/3" CCD,

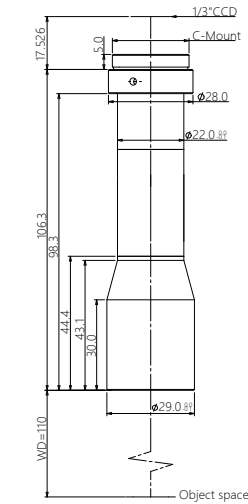
Fixed Magnification

Object Side Telecentric



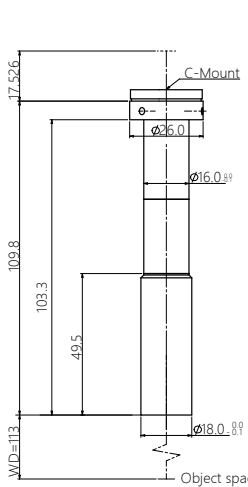
Lens Model	Mag.(x)	WD(mm)	Max Sensor Size (Φmm)	F/#	NA	Resolution (um)	DOF (mm)	Length (mm)	Mount
WWL05-110AT	0.5	110	6.0(1/3")	11.6	0.02142	15.7	3.7	106.3	C-Mount
WWL05-110CT	0.5	110	6.0(1/3")	11.6	0.02142	15.7	3.7	106.3	C-Mount
WWL10-110AT	1.0	113	6.0(1/3")	13.7	0.03663	9.2	1.1	109.8	C-Mount
WWL10-110CT	1.0	113	6.0(1/3")	13.7	0.03663	9.2	1.1	109.8	C-Mount
WWL15-110AN	1.5	110	6.0(1/3")	13.6	0.0552	6.1	0.5	104.2	C-Mount
WWL15-110CN	1.5	110	6.0(1/3")	13.6	0.0552	6.1	0.5	104.3	C-Mount
WWL20-110ATS	2.0	110	6.0(1/3")	23.7	0.04152	8.1	0.5	73.8	C-Mount
WWL20-110CTS	2.0	110	6.0(1/3")	23.7	0.04152	8.1	0.5	73.8	C-Mount
WWL25-110A	2.5	110	6.0(1/3")	26.7	0.04607	7.3	0.3	109.7	C-Mount
WWL25-110C	2.5	110	6.0(1/3")	26.7	0.04607	7.3	0.3	109.7	C-Mount
WWL30-110AT	3.0	110	6.0(1/3")	31.2	0.04617	7.3	0.3	117.1	C-Mount
WWL30-110CT	3.0	110	6.0(1/3")	31.2	0.04617	7.3	0.3	117.1	C-Mount
WWL40-110A	4.0	110	6.0(1/3")	36.3	0.0552	6.1	0.2	132.5	C-Mount
WWL40-110C	4.0	110	6.0(1/3")	36.3	0.0552	6.1	0.2	132.5	C-Mount
WWL08-130AT	0.8	130	6.0(1/3")	15.2	0.02606	12.9	1.9	97.1	C-Mount
WWL08-130CT	0.8	130	6.0(1/3")	15.2	0.02606	12.9	1.9	97.1	C-Mount

WWL05-110AT



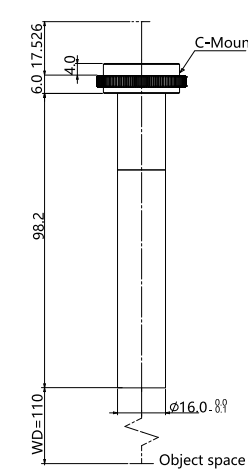
Mag.(x)	0.5
WD(mm)	110
Max Sensor Size(Φmm)	6.0(1/3")
F/#	11.6
NA	0.02142
Resolution(μm)	15.7
DOF(mm)	3.7
Length(mm)	106.3
Mount	C-Mount
Field of View (mmxmm)	
1/4"(3.2x2.4)	6.4x4.8
1/3"(4.8x3.6)	9.6x7.2

WWL10-110AT



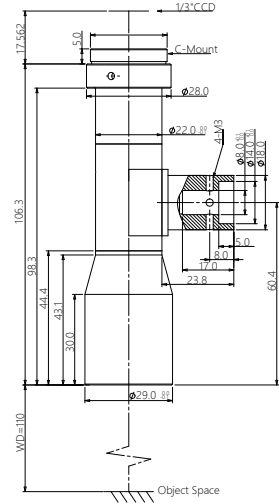
Mag.(x)	1.0
WD(mm)	113
Max Sensor Size(Φmm)	6.0(1/3")
F/#	13.7
NA	0.03663
Resolution(μm)	9.2
DOF(mm)	1.1
Length(mm)	109.8
Mount	C-Mount
Field of View (mmxmm)	
1/4"(3.2x2.4)	3.2x2.4
1/3"(4.8x3.6)	4.8x3.6

WWL15-110AN



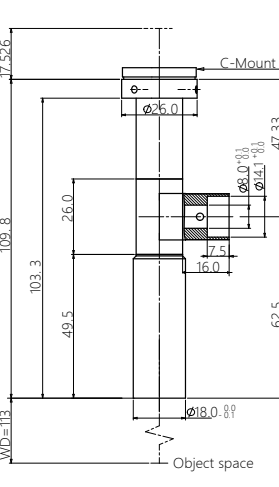
Mag.(x)	1.5
WD(mm)	110
Max Sensor Size(Φmm)	6.0(1/3")
F/#	13.6
NA	0.0552
Resolution(μm)	6.1
DOF(mm)	0.5
Length(mm)	104.2
Mount	C-Mount
Field of View (mmxmm)	
1/4"(3.2x2.4)	2.1x1.6
1/3"(4.8x3.6)	3.2x2.4

WWL05-110CT



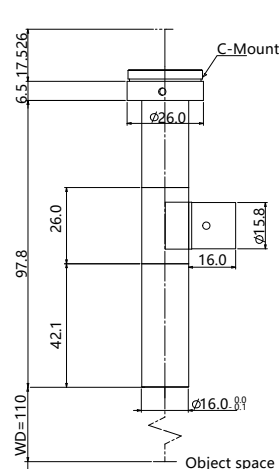
Mag.(x)	0.5
WD(mm)	110
Max Sensor Size(Φmm)	6.0(1/3")
F/#	11.6
NA	0.02142
Resolution(μm)	15.7
DOF(mm)	3.7
Length(mm)	106.3
Mount	C-Mount
Field of View (mmxmm)	
1/4"(3.2x2.4)	6.4x4.8
1/3"(4.8x3.6)	9.6x7.2

WWL10-110CT



Mag.(x)	1.0
WD(mm)	113
Max Sensor Size(Φmm)	6.0(1/3")
F/#	13.7
NA	0.03663
Resolution(μm)	9.2
DOF(mm)	1.1
Length(mm)	109.8
Mount	C-Mount
Field of View (mmxmm)	
1/4"(3.2x2.4)	3.2x2.4
1/3"(4.8x3.6)	4.8x3.6

WWL15-110CN



Mag.(x)	1.5
WD(mm)	110
Max Sensor Size(Φmm)	6.0(1/3")
F/#	13.6
NA	0.0552
Resolution(μm)	6.1
DOF(mm)	0.5
Length(mm)	104.3
Mount	C-Mount
Field of View (mmxmm)	
1/4"(3.2x2.4)	2.1x1.6
1/3"(4.8x3.6)	3.2x2.4

DTCA Series
Bi-Telecentric Lens
with Iris and Coaxial Light

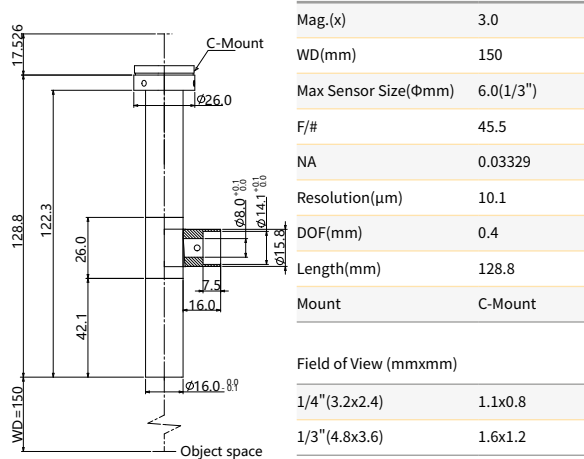
WWK Series
Telecentric Lens for
AOI Inspection

DTCM Series
Bi-Telecentric Lens

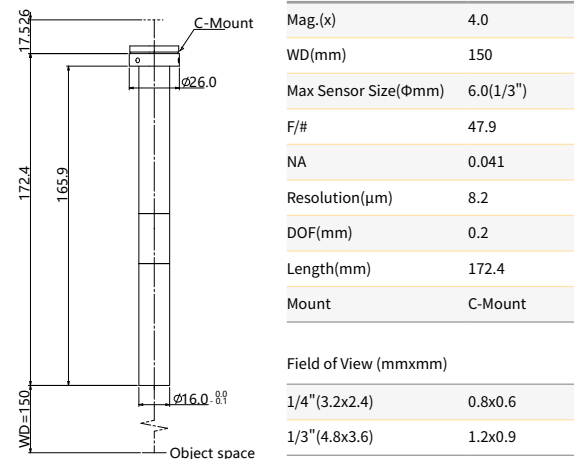
WWH Series
Megapixel Object Side
Telecentric Lens

WWL Series
Standard Fixed
Magnification Lens

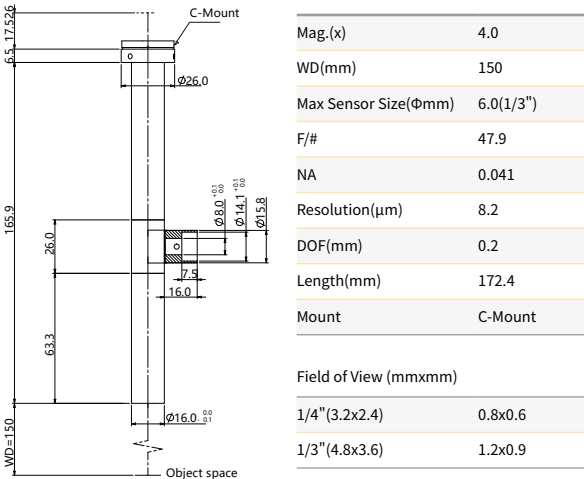
WWL30-150CT



WWL40-150A



WWL40-150C



Special customized products

M series MZ/MT/MZL

Model:M series

Special Description

Telecentric lens with deflecting the light path.

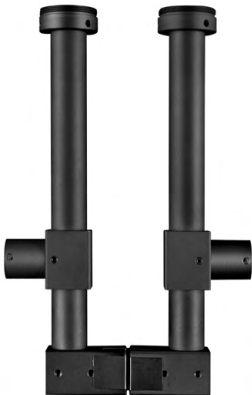
Key advantage

This series is specially designed for special requirement when the space between two lenses is close proximity.

Product pictures



SQ-MT2-60C



SQ-MZL5-15CL/R



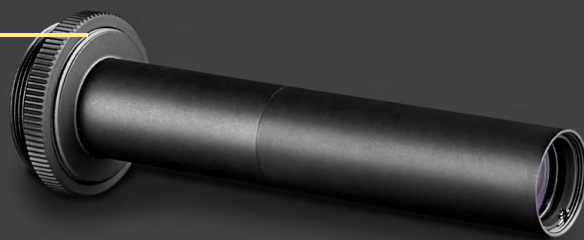
SQ-MZ2-80C

WWL Series-WD 250mm

Support 1/3" CCD,

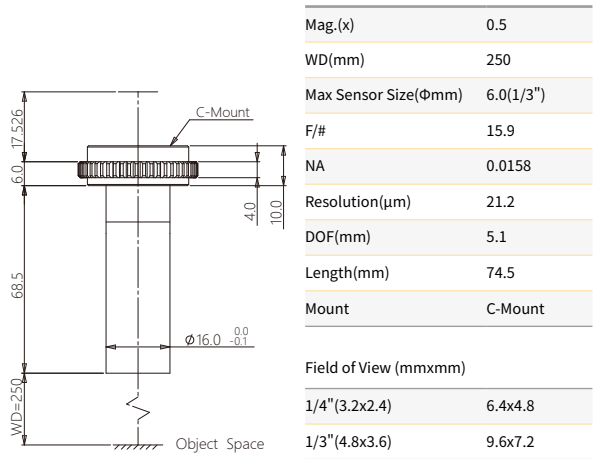
Fixed Magnification

Object Side Telecentric

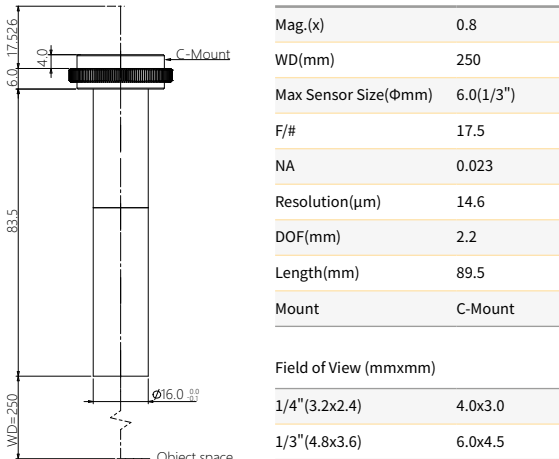


Lens Model	Mag.(x)	WD(mm)	Max Sensor Size (Φmm)	F/#	NA	Resolution (um)	DOF (mm)	Length (mm)	Mount
WWL05-250A	0.5	250	6.0(1/3")	15.9	0.0158	21.2	5.1	74.5	C-Mount
WWL08-250AN	0.8	250	6.0(1/3")	17.5	0.023	14.6	2.2	89.5	C-Mount
WWL10-250A	1.0	250	6.0(1/3")	20	0.025	13.4	1.6	115.8	C-Mount
WWL10-250C	1.0	250	6.0(1/3")	20	0.025	13.4	1.6	115.8	C-Mount
WWL15-250A	1.5	250	6.0(1/3")	29.7	0.025	13.4	1.1	141.5	C-Mount
WWL15-250C	1.5	250	6.0(1/3")	29.7	0.025	13.4	1.1	141.5	C-Mount
WWL20-250A	2.0	250	6.0(1/3")	40	0.025	13.4	0.8	141.2	C-Mount
WWL20-250C	2.0	250	6.0(1/3")	40	0.025	13.4	0.8	141.2	C-Mount

WWL05-250A



WWL08-250AN





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