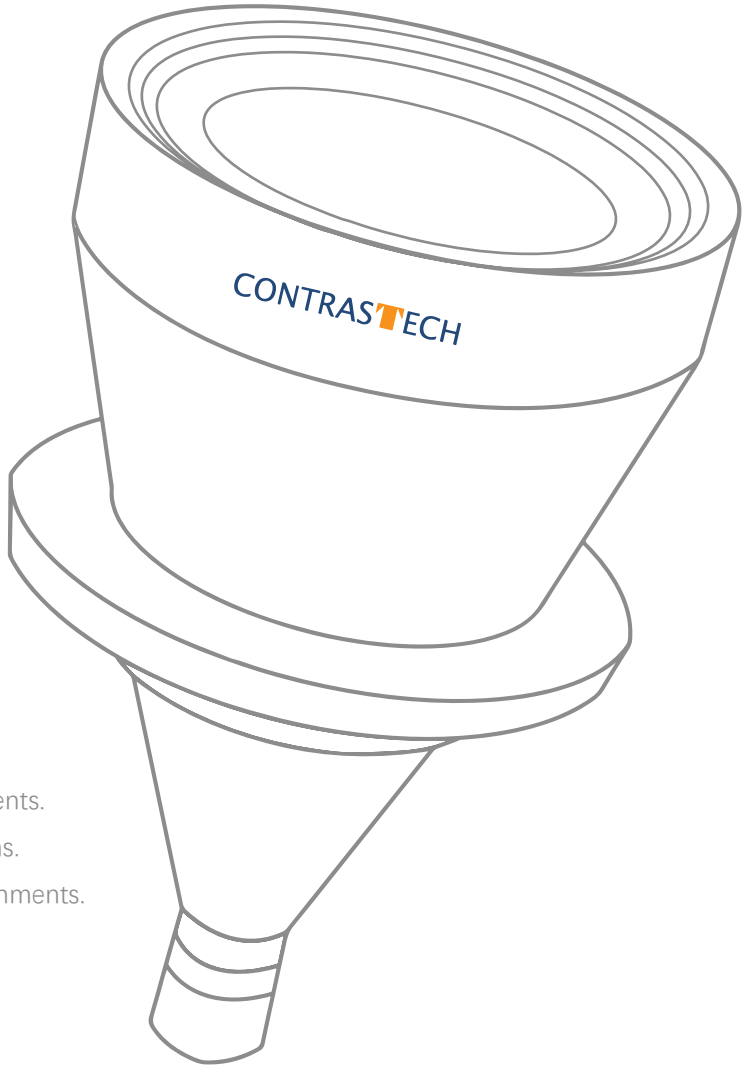
CONTRASTECH

TELECENTRIC LENSES CLW2-10MP SERIES



MAIN FEATURES

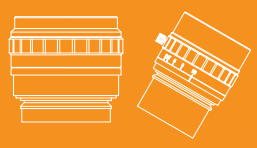
- **High telecentricity** for thick object imaging.
- **Nearly zero distortion** for accurate measurements.
- **Excellent resolution** for high resolution cameras.
- **Simple and robust design** for industrial environments.

ABOUT US

Hangzhou Contrastech Co.,Ltd. is China top leading professional machine vision products manufacturer and supplier, who have been specializing in design, development and producing machine vision products, software and systems.

With advanced technology and creative power of image acquisition and processing, Contrastech major products have included industrial camera, scientific standard camera, industrial FA lens, telecentric lens, machine vision lights and image processing software. All products comply with international quality standards and we have more than 20 years industry experience in the fields of machine vision image acquisition and processing, optical imaging and automation.

Contrastech provides free of charge consultation for imaging solution. With excellent pre-sales, quality control and after-sales service team, we are able to respond rapidly in 24 hours and ensure to create best value for customers. Vision Datum will innovate constantly and shall make more brilliant achievements together with our customers in the era of Industry 4.0.



CLW2-10MP SERIES

- WD 110mm
- WD 180mm
- WD 190mm
- WD 220mm

NAMING RULES

CLW2 [0.5X] — [65D] — [23]

- 23: Largest compatible format: 2/3"
- 65D: Working distance is 65mm "D"=Coaxial light
- 0.5X: Magnification is 0.5X

HIGH RESOLUTION

PRODUCT FEATURES

1. Optimized for AOI application;
2. Large FOV with low magnification;
3. Long working distance easy for illuminations and object allocation design;
4. High accuracy, low distortion, high telecentricity, support up to 1.1" 12M class high-speed camera.

Model No.	Optical specs									Mechanical specs	
	Coaxial	Mag. (x)	WD (mm)	Max. Sesnor Size (Φmm)	F/#	MTF30 (lp/mm)	DOF (mm)	Distortion (% max)	Telecentricity (° max)	Length (mm)	Mount
CLW2-0.3X-110-23	No	0.3	110±2	11.0(2/3")	5.6	>170	±2.5@F5.6	<0.02	<0.04	118.0	C Mount
CLW2-0.3X-110D-23	Yes	0.3	110±2	11.0(2/3")	5.6	>170	±2.5@F5.6	<0.02	<0.04	118.0	C Mount
CLW2-0.4X-110-23	No	0.4	110±2	11.0(2/3")	7	>140	±1.8@F7	<0.02	<0.03	140.2	C Mount
CLW2-0.4X-110D-23	Yes	0.4	110±2	11.0(2/3")	7	>140	±1.8@F7	<0.02	<0.03	140.2	C Mount
CLW2-0.5X-110-23	No	0.5	110±2	11.0(2/3")	7	>140	±1.1@F7	<0.03	<0.03	127.3	C Mount
CLW2-0.5X-110D-23	Yes	0.5	110±2	11.0(2/3")	7	>140	±1.1@F7	<0.03	<0.03	127.3	C Mount
CLW2-0.8X-110-H1.1	No	0.8	110±2	18.0(1.1")	7.9	>85	±0.5@F7.9	<0.1	<0.1	122.7	C Mount
CLW2-0.8X-110D-H1.1	Yes	0.8	110±2	18.0(1.1")	7.9	>85	±0.5@F7.9	<0.1	<0.1	122.7	C Mount
CLW2-1.0X-110-H1.1	No	1	110±2	18.0(1.1")	7	>105	±0.3@F7	<0.13	<0.18	133.3	C Mount
CLW2-1.0X-110D-H1.1	Yes	1	110±2	18.0(1.1")	7	>105	±0.3@F7	<0.13	<0.18	133.3	C Mount
CLW2-1.5X-110-H1.1	No	1.5	110±2	18.0(1.1")	10	>78	±0.18@F10	<0.1	<0.1	128.8	C Mount
CLW2-1.5X-110D-H1.1	Yes	1.5	110±2	18.0(1.1")	10	>78	±0.18@F10	<0.1	<0.1	128.8	C Mount
CLW2-2.0X-110-H1.1	No	2	110±2	18.0(1.1")	13.5	>60	±0.14@F13.5	<0.1	<0.1	133.2	C Mount
CLW2-2.0X-110D-H1.1	Yes	2	110±2	18.0(1.1")	13.5	>60	±0.14@F13.5	<0.1	<0.1	133.2	C Mount
CLW2-3.0X-110-H1.1	No	3	110±2	18.0(1.1")	20.1	>40	±0.09@F20.1	<0.1	<0.1	161.8	C Mount
CLW2-3.0X-110D-H1.1	Yes	3	110±2	18.0(1.1")	20.1	>40	±0.09@F20.1	<0.1	<0.1	166.1	C Mount

HIGH RESOLUTION

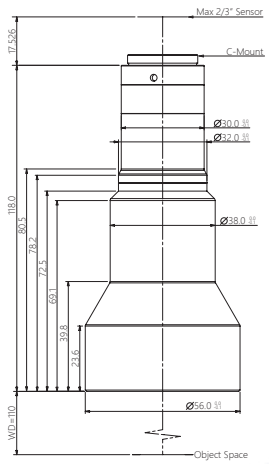
Model No.	Optical specs									Mechanical specs	
	Coaxial	Mag. (x)	WD (mm)	Max. Sesnor Size (Φmm)	F/#	MTF30 (lp/mm)	DOF (mm)	Distortion (% max)	Telecentricity (° max)	Length (mm)	Mount
CLW2-0.3X-180-118	No	0.3	180±2	9.0(1/1.8")	8	>100	±7@F16	<0.1	<0.1	166.2	C Mount
CLW2-0.3X-180-23	No	0.3	180±2	11.0(2/3")	10	>83	±7@F16	<0.1	<0.1	166.3	C Mount
CLW2-0.3X-180D-23	Yes	0.3	180±2	11.0(2/3")	10	>83	±7@F16	<0.1	<0.1	166.2	C Mount
CLW2-0.14X-190-125	No	0.14	190±2	7.2(1/2.5")	8	>100	±32.5@F16	<0.2	<0.1	132.8	C Mount
CLW2-0.22X-200-118	No	0.22	200±3	9.0(1/1.8")	8	>95	±13@F16	<0.1	<0.1	150	C Mount
CLW2-0.22X-200-23	No	0.22	200±3	11.0(2/3")	10	>80	±13@F16	<0.1	<0.1	150	C Mount
CLW2-0.22X-200-23(LM)	No	0.22	200±3	11.0(2/3")	10	>80	±13@F16	<0.1	<0.1	150.3	C Mount

Model No.	Optical specs									Mechanical specs	
	Coaxial	Mag. (x)	WD (mm)	Max. Sesnor Size (Φmm)	F/#	MTF30 (lp/mm)	DOF (mm)	Distortion (% max)	Telecentricity (° max)	Length (mm)	Mount
CLW2-0.22X-220-H1.1	No	0.22	220±3	18.0(1.1")	8	>110	±6.6@F8	<0.1	<0.15	232.9	C Mount
CLW2-0.23X-220-H1.1	No	0.23	220±3	18.0(1.1")	8	>110	±6@F8	<0.1	<0.18	233.0	C Mount
CLW2-0.246X-220-H1.1	No	0.246	220±3	18.0(1.1")	8	>100	±5.3@F8	<0.1	<0.13	232.9	C Mount
CLW2-0.275X-220-H1.1	No	0.275	220±3	18.0(1.1")	8	>105	±4.2@F8	<0.1	<0.15	242.9	C Mount
CLW2-0.3X-220-23	No	0.3	220±3	11.0(2/3")	13.6	>63	±9.7@F22	<0.1	<0.1	167.7	C Mount
CLW2-0.3X-220D-23	Yes	0.3	220±3	11.0(2/3")	13.6	>63	±9.7@F22	<0.1	<0.1	167.7	C Mount
CLW2-0.345XH-220-H1.1	No	0.345	220±3	18.0(1.1")	8	>115	±2.7@F8	<0.1	<0.1	212.2	C Mount
CLW2-0.367XH-220-H1.1	No	0.367	220±3	18.0(1.1")	8	>115	±2.4@F8	<0.1	<0.1	213.1	C Mount
CLW2-0.46X-220-H1	No	0.46	220±3	16.0(1")	11.6	>80	±2.2@F11.6	<0.25	<0.1	205.2	C Mount
CLW2-0.46X-220D-H1	Yes	0.46	220±3	16.0(1")	11.6	>80	±2.2@F11.6	<0.25	<0.1	205.2	C Mount
CLW2-0.5X-220-H1	No	0.5	220±3	16.0(1")	8	>110	±1.3@F8	<0.1	<0.1	205.7	C Mount
CLW2-0.5X-220D-H1	Yes	0.5	220±3	16.0(1")	8	>110	±1.3@F8	<0.1	<0.1	205.7	C Mount
CLW2-0.55XH-220-H1.1	No	0.55	220±3	18.0(1.1")	10.1	>90	±1.3@F10.1	<0.1	<0.1	215.6	C Mount
CLW2-0.55X-220D-H1.1	Yes	0.55	220±3	18.0(1.1")	10.1	>90	±1.3@F10.1	<0.1	<0.1	215.6	C Mount

1. Models with letter "D" support coaxial lights. The back focal length of model with (LM) is adjustable.

2. Warm tips: The above DOF is just theoretical value at the ideal aperture (eg. ±763@F11). Actual DOF or the DOF what you need, please check with our sales engineer before order cfm.

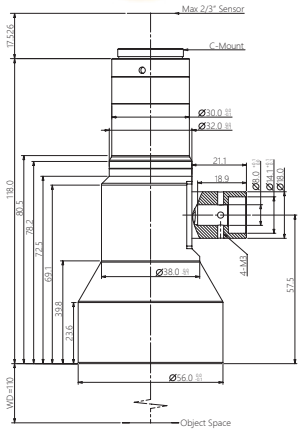
CLW2-0.3X-110-23



Mag.(x)	0.3
WD(mm)	110±2
Max Sensor Size(Φmm)	11.0(2/3")
F/#	5.6
MTF30(lp/mm)	>170
DoF(mm)	±2.5@F5.6
Distortion(% max)	<0.02
Telecentricity(° max)	<0.04
Length(mm)	118.0
Mount	C Mount
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

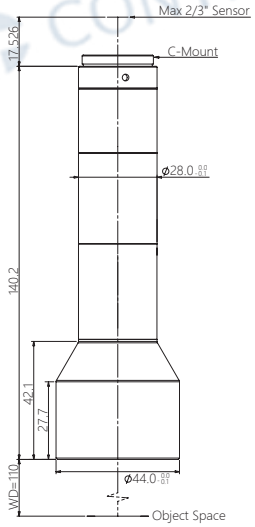
CLW2-0.3X-110D-23



Mag.(x)	0.3
WD(mm)	110±2
Max Sensor Size(Φmm)	11.0(2/3")
F/#	5.6
MTF30(lp/mm)	>170
DoF(mm)	±2.5@F5.6
Distortion(% max)	<0.02
Telecentricity(° max)	<0.04
Length(mm)	118.0
Mount	C Mount
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

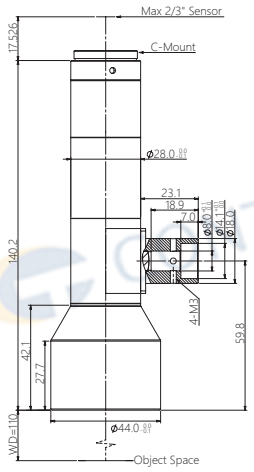
CLW2-0.4X-110-23



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 Mount
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

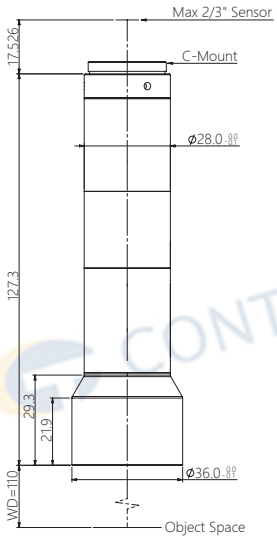
CLW2-0.4X-110D-23



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 Mount
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

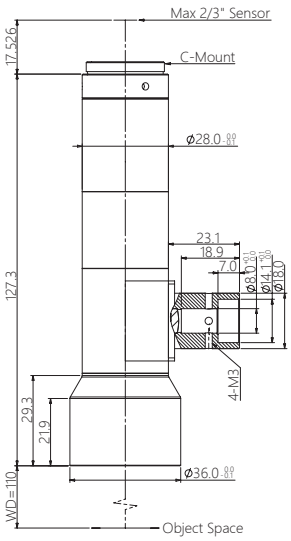
CLW2-0.5X-110-23



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 Mount
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

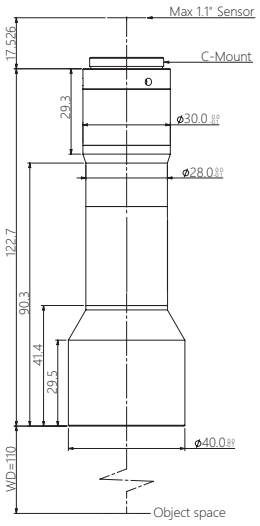
CLW2-0.5X-110D-23



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 Mount
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

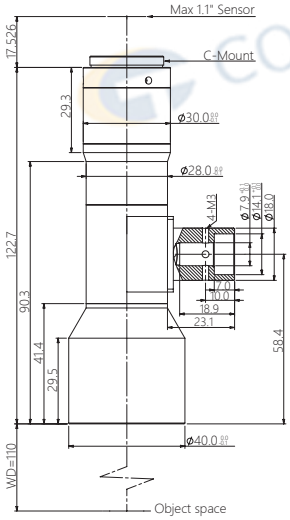
CLW2-0.8X-110-H1.1



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 Mount
Coaxial Light	Yes

Field of View(mmxmm)	
1" IMX183 (13.13x8.76)	16.4x11.0
1.1" IMX253 (14.19x10.38)	17.7x13.0

CLW2-0.8X-110D-H1.1

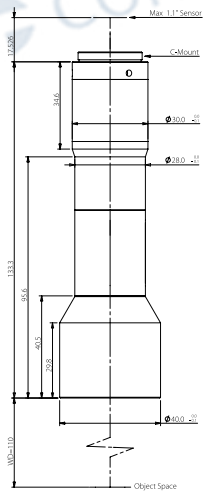


Mag.(x)	0.8
WD(mm)	110±2
Max Sensor Size(Φmm)	18.0(1.1")
F/#	7.9
MTF30(lp/mm)	>85
DoF(mm)	±0.5@F7.9
Distortion(% max)	<0.1
Telecentricity(° max)	<0.1
Length(mm)	122.7
Mount	C Mount
Coaxial Light	Yes

Field of View(mmxmm)	
1" IMX183 (13.13x8.76)	16.4x11.0
1.1" IMX253 (14.19x10.38)	17.7x13.0

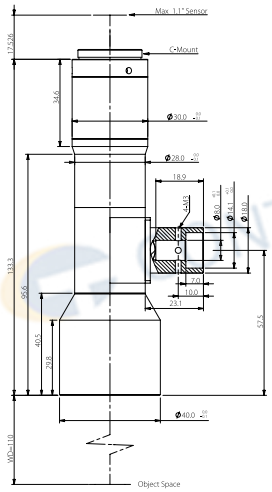
Warm tips: The above DOF is just theoretical value at the ideal aperture (eg. ±763@F11). Actual DOF or the DOF what you need, please check with our sales engineer before order cfm.

CLW2-1.0X-110-H1.1



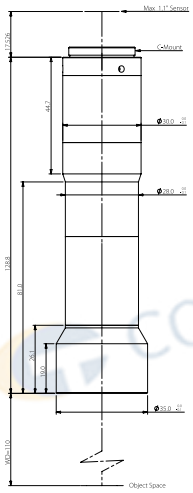
Mag.(x)	1.0
WD(mm)	110±2
Max Sensor Size(Φmm)	18.0(1.1")
F/#	7
MTF30(lp/mm)	>105
DoF(mm)	±0.3@F7
Distortion(% max)	<0.13
Telecentricity(° max)	<0.18
Length(mm)	133.3
Mount	C Mount
Coaxial Light	No
Field of View(mmxmm)	
1.1" IMX253(14.19x10.38)	14.2x10.4

CLW2-1.0X-110D-H1.1



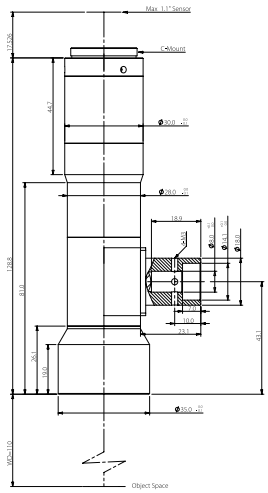
Mag.(x)	1.0
WD(mm)	110±2
Max Sensor Size(Φmm)	18.0(1.1")
F/#	7
MTF30(lp/mm)	>105
DoF(mm)	±0.3@F7
Distortion(% max)	<0.13
Telecentricity(° max)	<0.18
Length(mm)	133.3
Mount	C Mount
Coaxial Light	Yes
Field of View(mmxmm)	
1.1" IMX253(14.19x10.38)	14.2x10.4

CLW2-1.5X-110-H1.1



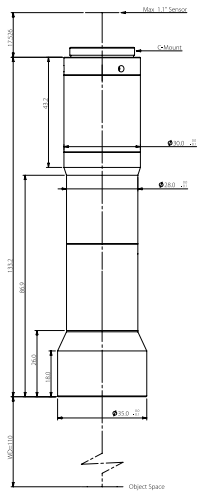
Mag.(x)	1.5
WD(mm)	110±2
Max Sensor Size(Φmm)	18.0(1.1")
F/#	10
MTF30(lp/mm)	>78
DoF(mm)	±0.18@F10
Distortion(% max)	<0.1
Telecentricity(° max)	<0.1
Length(mm)	128.8
Mount	C Mount
Coaxial Light	No
Field of View(mmxmm)	
1.1" IMX253(14.19x10.38)	9.5x6.9

CLW2-1.5X-110D-H1.1



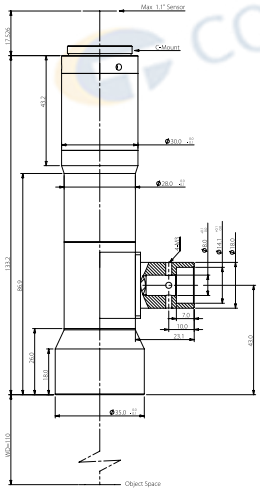
Mag.(x)	1.5
WD(mm)	110±2
Max Sensor Size(Φmm)	18.0(1.1")
F/#	10
MTF30(lp/mm)	>78
DoF(mm)	±0.18@F10
Distortion(% max)	<0.1
Telecentricity(° max)	<0.1
Length(mm)	128.8
Mount	C Mount
Coaxial Light	Yes
Field of View(mmxmm)	
1.1" IMX253(14.19x10.38)	9.5x6.9

CLW2-2.0X-110-H1.1



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 Mount
Coaxial Light	No
Field of View(mmxmm)	
1.1" IMX253(14.19x10.38)	7.1x5.2

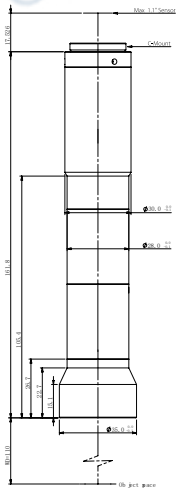
CLW2-2.0X-110D-H1.1



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 Mount
Coaxial Light	Yes
Field of View(mmxmm)	
1.1" IMX253(14.19x10.38)	7.1x5.2

Warm tips: The above DOF is just theoretical value at the ideal aperture (eg. ±763@F11). Actual DOF or the DOF what you need, please check with our sales engineer before order cfm.

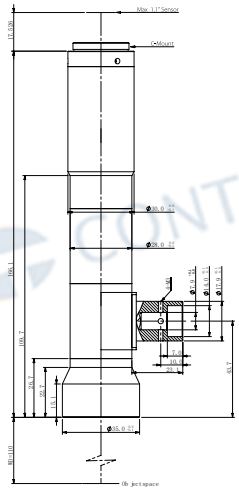
CLW2-3.0X-110-H1.1



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 Mount
Coaxial Light	No

Field of View(mmxmm)	
1.1" IMX253(14.19x10.38)	4.7x3.5

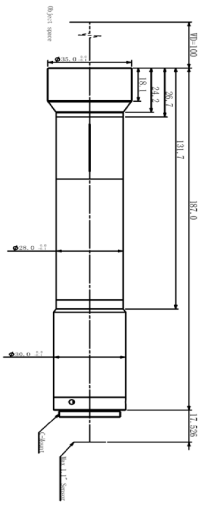
CLW2-3.0X-110D-H1.1



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 Mount
Coaxial Light	Yes

Field of View(mmxmm)	
1.1" IMX253(14.19x10.38)	4.7x3.5

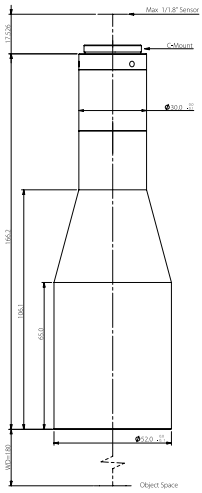
CLW2-4.0X-110-H1.1



Mag.(x)	4.0
WD(mm)	100±2
Max Sensor Size(Φmm)	18(1.1")
F/#	26.5
MTF30(lp/mm)	>35
DoF(mm)	±0.07@F26.5
Distortion(% max)	<0.05
Telecentricity(° max)	<0.01
Length(mm)	187
Mount	C Mount
Coaxial Light	No

Field of View(mmxmm)	
1" IMX183 (13.13x8.76)	3.3x2.2
1.1" IMX253 (14.19x10.38)	3.5x2.6

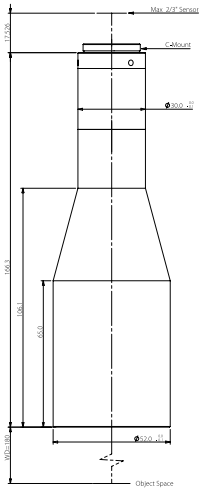
CLW2-0.3X-180-118



Mag.(x)	0.3
WD(mm)	180±2
Max Sensor Size(Φmm)	9.0(1/1.8")
F/#	8
MTF30(lp/mm)	>100
DoF(mm)	±7@F16
Distortion(% max)	<0.1
Telecentricity(° max)	<0.1
Length(mm)	166.2
Mount	C Mount
Coaxial Light	No

Field of View(mmxmm)	
1/1.8"CX274/687(7.16x5.44)	23.9x18.1
1/1.8"EV76C570(7.2x5.4)	24.0x18.0

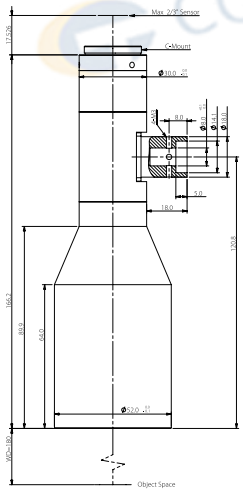
CLW2-0.3X-180-23



Mag.(x)	0.3
WD(mm)	180±2
Max Sensor Size(Φmm)	11.0(2/3")
F/#	10
MTF30(lp/mm)	>83
DoF(mm)	±7@F16
Distortion(% max)	<0.1
Telecentricity(° max)	<0.1
Length(mm)	166.3
Mount	C Mount
Coaxial Light	No

Field of View(mmxmm)	
2/3" ICX625/655(8.47x7.1)	28.2x23.7

CLW2-0.3X-180D-23

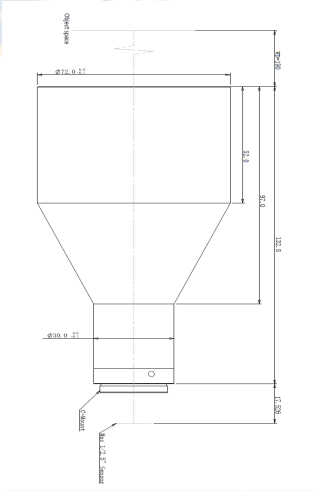


Mag.(x)	0.3
WD(mm)	180±2
Max Sensor Size(Φmm)	11.0(2/3")
F/#	10
MTF30(lp/mm)	>83
DoF(mm)	±7@F16
Distortion(% max)	<0.1
Telecentricity(° max)	<0.1
Length(mm)	166.3
Mount	C Mount
Coaxial Light	Yes

Field of View(mmxmm)	
2/3" ICX625/655(8.47x7.1)	28.2x23.7

Warm tips: The above DOF is just theoretical value at the ideal aperture (eg. ±763@F11). Actual DOF or the DOF what you need, please check with our sales engineer before order cfm.

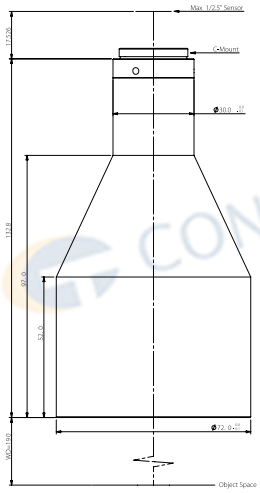
CLW2-0.14X-190-125



Mag.(x)	0.14
WD(mm)	190±2
Max Sensor Size(Φmm)	7.2(1/2.5")
F/#	8
MTF30(lp/mm)	>100
DoF(mm)	±16.3@F8
Distortion(% max)	<0.2
Telecentricity(° max)	<0.1
Length(mm)	132.8
Mount	C Mount
Coaxial Light	No

Field of View(mmxmm)	
1/3"AR130/RJ33(4.8x3.6)	34.3x25.7
1/2.5" 9P001/31(5.7x4.28)	40.7x30.6

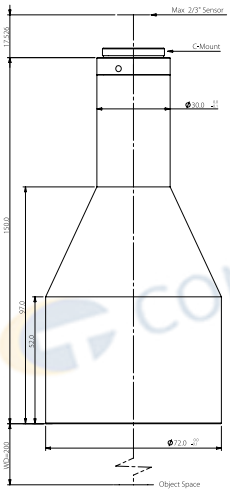
CLW2-0.22X-200-118



Mag.(x)	0.22
WD(mm)	200±3
Max Sensor Size(Φmm)	9.0(1/1.8")
F/#	8
MTF30(lp/mm)	>95
DoF(mm)	±13@F16
Distortion(% max)	<0.1
Telecentricity(° max)	<0.1
Length(mm)	150.0
Mount	C Mount
Coaxial Light	No

Field of View(mmxmm)	
1/1.8"ICX274/687(7.16x5.44)	32.6x24.7
1/1.8"EV76C570(7.2x5.4)	32.7x24.6

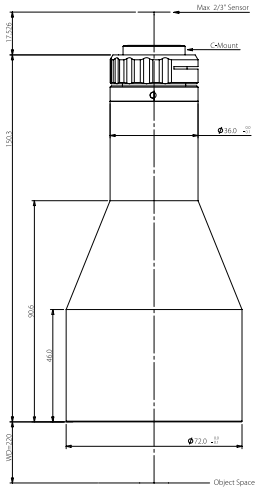
CLW2-0.22X-200-23



Mag.(x)	0.22
WD(mm)	200±3
Max Sensor Size(Φmm)	11.0(2/3")
F/#	10
MTF30(lp/mm)	>80
DoF(mm)	±13@F16
Distortion(% max)	<0.1
Telecentricity(° max)	<0.1
Length(mm)	150.0
Mount	C Mount
Coaxial Light	No

Field of View(mmxmm)	
2/3" ICX625/655(8.47x7.1)	38.5x32.3

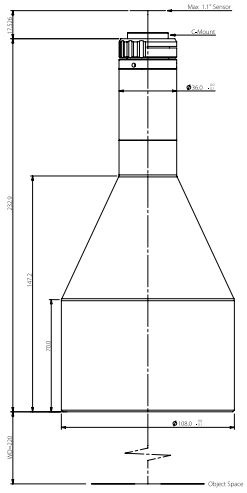
CLW2-0.22X-200-23(LM)



Mag.(x)	0.22
WD(mm)	200±3
Max Sensor Size(Φmm)	11.0(2/3")
F/#	10
MTF30(lp/mm)	>80
DoF(mm)	±13@F16
Distortion(% max)	<0.1
Telecentricity(° max)	<0.1
Length(mm)	150.0
Mount	C Mount
Coaxial Light	No

Field of View(mmxmm)	
2/3" ICX625/655(8.47x7.1)	38.5x32.3

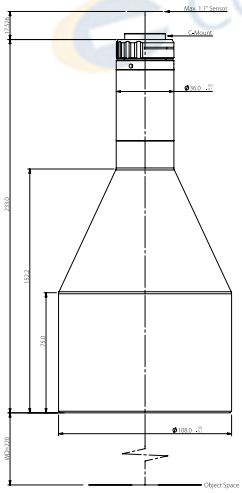
CLW2-0.22XH-220-H1.1



Mag.(x)	0.22
WD(mm)	220±3
Max Sensor Size(Φmm)	18.0(1.1")
F/#	8
MTF30(lp/mm)	>110
DoF(mm)	±13@F16
Distortion(% max)	<0.1
Telecentricity(° max)	<0.15
Length(mm)	232.9
Mount	C Mount
Coaxial Light	No

Field of View(mmxmm)	
1.1" IMX253(14.19x10.38)	64.5x47.2

CLW2-0.23XH-220-H1.1

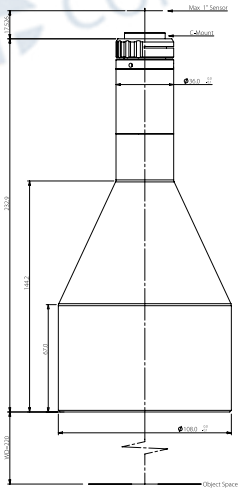


Mag.(x)	0.23
WD(mm)	220±3
Max Sensor Size(Φmm)	18.0(1.1")
F/#	8
MTF30(lp/mm)	>110
DoF(mm)	±12@F16
Distortion(% max)	<0.1
Telecentricity(° max)	<0.18
Length(mm)	233.0
Mount	C Mount
Coaxial Light	No

Field of View(mmxmm)	
1.1" IMX253(14.19x10.38)	61.7x45.1

Warm tips: The above DOF is just theoretical value at the ideal aperture (eg. ±763@F11). Actual DOF or the DOF what you need, please check with our sales engineer before order cfm.

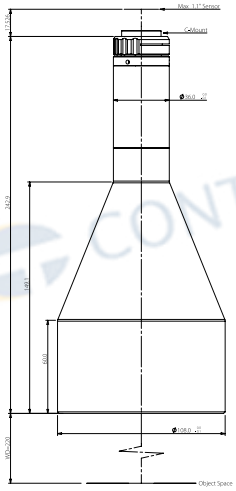
CLW2-0.246X-220-H1.1



Mag.(x)	0.246
WD(mm)	220±3
Max Sensor Size(Φmm)	18.0(1.1")
F/#	8
MTF30(lp/mm)	>100
DoF(mm)	±10@F16
Distortion(% max)	<0.1
Telecentricity(° max)	<0.13
Length(mm)	232.9
Mount	C Mount
Coaxial Light	No

Field of View(mmxmm)	
1.1" IMX253(14.19x10.38)	57.7x42.2

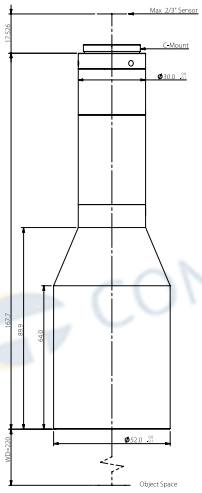
CLW2-0.275X-220-H1.1



Mag.(x)	0.275
WD(mm)	220±3
Max Sensor Size(Φmm)	18.0(1.1")
F/#	8
MTF30(lp/mm)	>105
DoF(mm)	±8@F16
Distortion(% max)	<0.1
Telecentricity(° max)	<0.15
Length(mm)	242.9
Mount	C Mount
Coaxial Light	No

Field of View(mmxmm)	
1.1" IMX253(14.19x10.38)	51.6x37.8

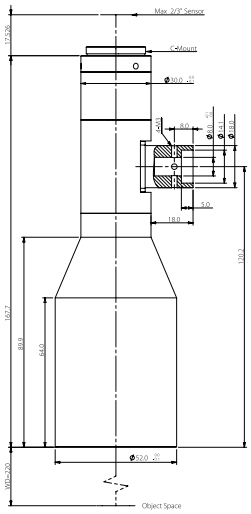
CLW2-0.3X-220-23



Mag.(x)	0.3
WD(mm)	220±3
Max Sensor Size(Φmm)	11.0(2/3")
F/#	13.6
MTF30(lp/mm)	>63
DoF(mm)	±9.7@F22
Distortion(% max)	<0.1
Telecentricity(° max)	<0.1
Length(mm)	167.7
Mount	C Mount
Coaxial Light	No

Field of View(mmxmm)	
2/3" ICX625/655(8.47x7.1)	28.2x23.7

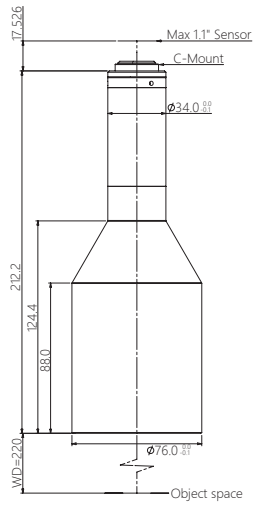
CLW2-0.3X-220D-23



Mag.(x)	0.3
WD(mm)	220±3
Max Sensor Size(Φmm)	11.0(2/3")
F/#	13.6
MTF30(lp/mm)	>63
DoF(mm)	±9.7@F22
Distortion(% max)	<0.1
Telecentricity(° max)	<0.1
Length(mm)	167.7
Mount	C Mount
Coaxial Light	Yes

Field of View(mmxmm)	
2/3" ICX625/655(8.47x7.1)	28.2x23.7

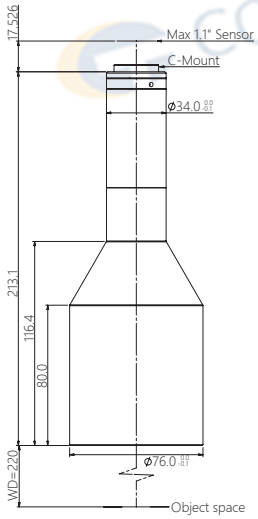
CLW2-0.345XH-220-H1



Mag.(x)	0.345
WD(mm)	220±3
Max Sensor Size(Φmm)	16.0(1")
F/#	8
MTF30(lp/mm)	>115
DoF(mm)	±5.3@F16
Distortion(% max)	<0.1
Telecentricity(° max)	<0.1
Length(mm)	212.2
Mount	C Mount
Coaxial Light	No

Field of View(mmxmm)	
1"KAI-04050(12.85x9.64)	37.3x27.9
1"CMV4000(11.26x11.26)	32.6x32.6
1"ICX674/694/814(12.5x10.0)	36.2x29.0

CLW2-0.367XH-220-H1

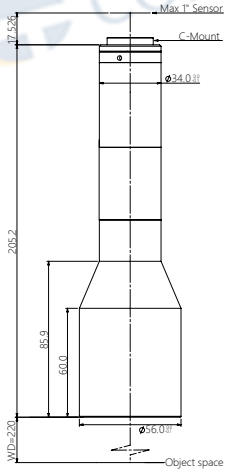


Mag.(x)	0.367
WD(mm)	220±3
Max Sensor Size(Φmm)	16.0(1")
F/#	8
MTF30(lp/mm)	>115
DoF(mm)	±4.7@F16
Distortion(% max)	<0.1
Telecentricity(° max)	<0.1
Length(mm)	213.1
Mount	C Mount
Coaxial Light	No

Field of View(mmxmm)	
1"KAI-04050(12.85x9.64)	35.0x26.3
1"CMV4000(11.26x11.26)	30.7x30.7
1"ICX674/694/814(12.5x10.0)	34.1x27.3

Warm tips: The above DOF is just theoretical value at the ideal aperture (eg. ±763@F11). Actual DOF or the DOF what you need, please check with our sales engineer before order cfm.

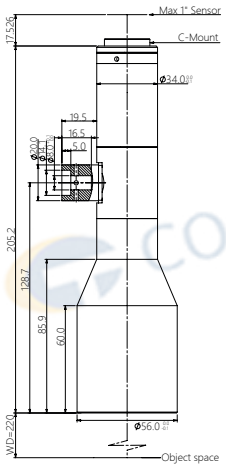
CLW2-0.46X-220-H1



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 Mount
Coaxial Light	No

Field of View(mmxmm)	
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

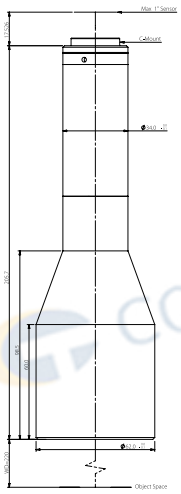
CLW2-0.46X-220D-H1



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 Mount
Coaxial Light	Yes

Field of View(mmxmm)	
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

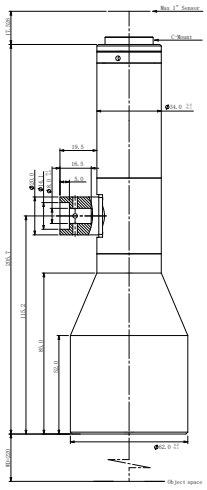
CLW2-0.5X-220-H1



Mag.(x)	0.5
WD(mm)	220±3
Max Sensor Size(Φmm)	16.0(1")
F/#	8
MTF30(lp/mm)	>110
DoF(mm)	±2.5@F16
Distortion(% max)	<0.1
Telecentricity(° max)	<0.1
Length(mm)	205.7
Mount	C Mount
Coaxial Light	No

Field of View(mmxmm)	
1"KAI-04050(12.85x9.64)	25.7x19.3
1"CMV4000(11.26x11.26)	22.5x22.5
1"ICX674/694/814(12.5x10.0)	25.0x20.0

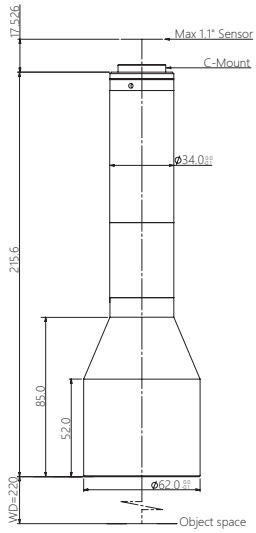
CLW2-0.5X-220D-H1



Mag.(x)	0.5
WD(mm)	220±3
Max Sensor Size(Φmm)	16.0(1")
F/#	8
MTF30(lp/mm)	>110
DoF(mm)	±2.5@F16
Distortion(% max)	<0.1
Telecentricity(° max)	<0.1
Length(mm)	205.7
Mount	C Mount
Coaxial Light	Yes

Field of View(mmxmm)	
1"KAI-04050(12.85x9.64)	25.7x19.3
1"CMV4000(11.26x11.26)	22.5x22.5
1"ICX674/694/814(12.5x10.0)	25.0x20.0

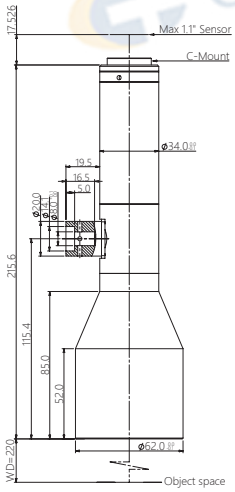
CLW2-0.55XH-220-H1.1



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 Mount
Coaxial Light	No

Field of View(mmxmm)	
1"KAI-04050(12.85x9.64)	23.4x17.5
1"CMV4000(11.26x11.26)	20.5x20.5
1"ICX674/694/814(12.5x10.0)	22.7x18.2

CLW2-0.55X-220D-H1.1



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 Mount
Coaxial Light	Yes

Field of View(mmxmm)	
1"KAI-04050(12.85x9.64)	23.4x17.5
1"CMV4000(11.26x11.26)	20.5x20.5
1"ICX674/694/814(12.5x10.0)	22.7x18.2

Warm tips: The above DOF is just theoretical value at the ideal aperture (eg. ±763@F11). Actual DOF or the DOF what you need, please check with our sales engineer before order cfm.

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