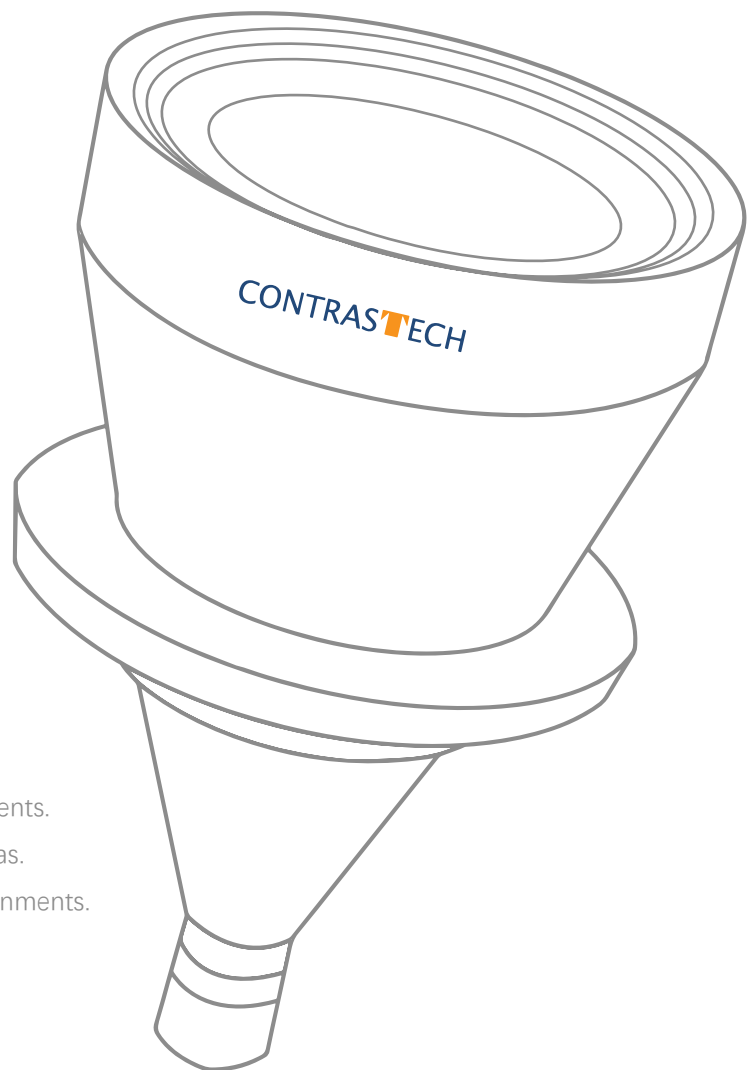


TELECENTRIC LENSES

CLW2-MP SERIES

WD 65mm



MAIN FEATURES

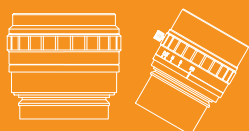
- ◆ **High telecentricity** for thick object imaging.
- ◆ **Nearly zero distortion** for accurate measurements.
- ◆ **Excellent resolution** for high resolution cameras.
- ◆ **Simple and robust design** for industrial environments.

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-MP SERIES

WD 65mm

1. Compact design with coaxial illumination options
2. Perfect image and supports all kinds of Mega camera;
3. High contrast, low distortion, high resolution.

NAMING RULES

CLW2-MP 0.8X 65D

Working distance is 65mm
"D"=Coaxial light

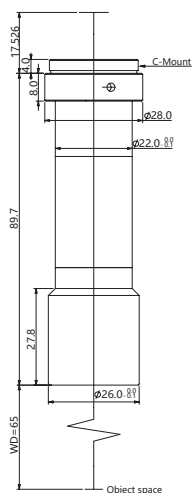
Magnification is 0.8X



Model No.	Optical specs									Mechanical specs	
	Coaxial	Mag. (x)	WD (mm)	Max. Sensor Size (Φmm)	F/#	MTF30 (lp/mm)	Distortion (% max)	Telecentricity (° max)	NA	Length (mm)	Mount
CLW2-MP-0.8X-65	No	0.8	65±1	11.0(2/3")	10	1.3	<0.1	<0.1	0.04	89.7	C Mount
CLW2-MP-0.8X-65D	Yes	0.8	65±1	11.0(2/3")	10	1.3	<0.1	<0.1	0.04	89.7	C Mount
CLW2-MP-1.0X-65	No	1.0	65±1	11.0(2/3")	11.1	0.9	<0.1	<0.1	0.045	79.9	C Mount
CLW2-MP-1.0X-65D	Yes	1.0	65±1	11.0(2/3")	11.1	0.9	<0.1	<0.1	0.045	79.9	C Mount
CLW2-MP-1.5XH-65	No	1.5	65±1	11.0(2/3")	12.5	0.4	<0.1	<0.1	0.06	74.4	C Mount
CLW2-MP-1.5XH-65D	Yes	1.5	65±1	11.0(2/3")	12.5	0.4	<0.1	<0.1	0.06	74.4	C Mount
CLW2-MP-2.0X-65	No	2.0	65±1	11.0(2/3")	13.2	0.3	<0.1	<0.1	0.074	80.0	C Mount
CLW2-MP-2.0X-65D	Yes	2.0	65±1	11.0(2/3")	13.2	0.3	<0.1	<0.1	0.074	80.0	C Mount
CLW2-MP-3.0X-65	No	3.0	65±1	11.0(2/3")	20.2	0.2	<0.1	1.6	0.0703	84.7	C Mount
CLW2-MP-3.0X-65D	Yes	3.0	65±1	11.0(2/3")	20.2	0.2	<0.1	1.6	0.0703	84.7	C Mount
CLW2-MP-4.0X-65	No	4.0	65±1	11.0(2/3")	17.9	0.1	<0.1	0.13	0.1078	101.9	C Mount
CLW2-MP-4.0X-65D	Yes	4.0	65±1	11.0(2/3")	17.9	0.1	<0.1	0.13	0.1078	106.2	C Mount
CLW2-MP-6.0X-65	No	6.0	65±1	11.0(2/3")	24.6	0.1	<0.1	0.1	0.116	116.1	C Mount
CLW2-MP-6.0X-65D	Yes	6.0	65±1	11.0(2/3")	24.6	0.1	<0.1	0.1	0.116	120.4	C Mount

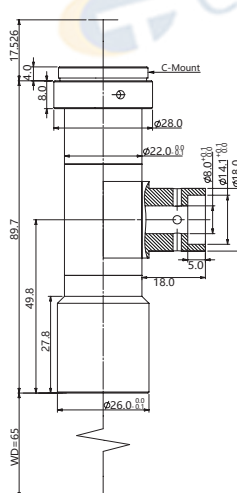
Warm tips: The above DOF is just theoretical value at the ideal aperture (eg. ±763@F11). Actual DOF or the DOF what you need, please check with our sales engineer before order cfm.

CLW2-MP-0.8X-65

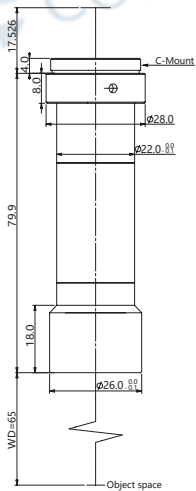


Mag.(x)	0.8
WD(mm)	65±1
Max Sensor Size(Φmm)	11.0(2/3")
F/#	10
Telecentricity(° max)	<0.1
Distortion(% max)	<0.24
MTF30(lp/mm)	75
NA	0.04
Resolution(μm)	8.4
DoF(mm)	1.3
Length(mm)	89.7
Mount	C-Mount
Coaxial Light	No
Field of View(mm x mm)	
1/2" (6.4x4.8)	8.0x6.0
1/1.8" (7.13x5.37)	8.9x6.7
2/3" (8.8x6.6)	11.0x8.3

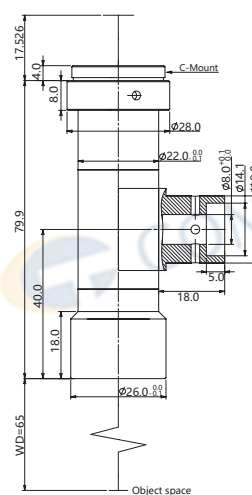
CLW2-MP-0.8X-65D



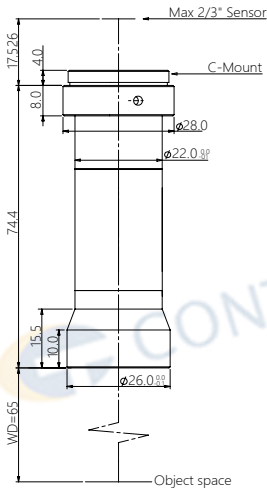
Mag.(x)	0.8
WD(mm)	65±1
Max Sensor Size(Φmm)	11.0(2/3")
F/#	10
Telecentricity(° max)	<0.1
Distortion(% max)	<0.24
MTF30(lp/mm)	75
NA	0.04
Resolution(μm)	8.4
DoF(mm)	1.3
Length(mm)	89.7
Mount	C-Mount
Coaxial Light	Yes
Field of View(mm x mm)	
1/2" (6.4x4.8)	8.0x6.0
1/1.8" (7.13x5.37)	8.9x6.7
2/3" (8.8x6.6)	11.0x8.3

CLW2-MP-1.0X-65

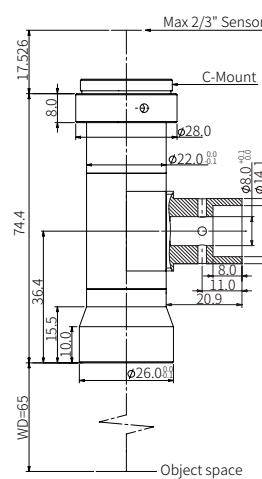
Mag.(x)	1.0
WD(mm)	65±1
Max Sensor Size(Φmm)	11.0(2/3")
F/#	11.1
Telecentricity(° max)	<0.1
Distortion(% max)	<0.36
MTF30(lp/mm)	70
NA	0.045
Resolution(μm)	7.5
DoF(mm)	0.9
Length(mm)	79.9
Mount	C-Mount
Coaxial Light	No
Field of View(mm x mm)	
1/2" (6.4x4.8)	6.4x4.8
1/1.8" (7.13x5.37)	7.13x5.37
2/3" (8.8x6.6)	8.8x6.6

CLW2-MP-1.0X-65D

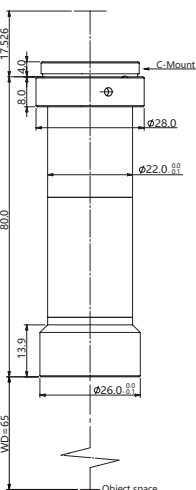
Mag.(x)	1.0
WD(mm)	65±1
Max Sensor Size(Φmm)	11.0(2/3")
F/#	11.1
Telecentricity(° max)	<0.1
Distortion(% max)	<0.36
MTF30(lp/mm)	70
NA	0.045
Resolution(μm)	7.5
DoF(mm)	0.9
Length(mm)	79.9
Mount	C-Mount
Coaxial Light	Yes
Field of View(mm x mm)	
1/2" (6.4x4.8)	6.4x4.8
1/1.8" (7.13x5.37)	7.13x5.37
2/3" (8.8x6.6)	8.8x6.6

CLW2-MP-1.5XH-65

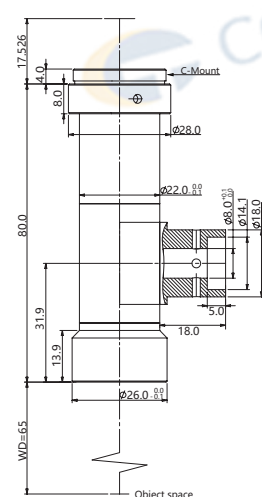
Mag.(x)	1.5
WD(mm)	65±1
Max Sensor Size(Φmm)	11.0(2/3")
F/#	12.5
Telecentricity(° max)	<0.1
Distortion(% max)	<0.5
MTF30(lp/mm)	65
NA	0.06
Resolution(μm)	5.6
DoF(mm)	0.4
Length(mm)	74.4
Mount	C-Mount
Coaxial Light	No
Field of View(mm x mm)	
1/2" (6.4x4.8)	4.3x3.2
1/1.8" (7.13x5.37)	4.8x3.6
2/3" (8.8x6.6)	5.9x4.4

CLW2-MP-1.5XH-65D

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)	<0.5
MTF30(lp/mm)	65
NA	0.06
Resolution(μm)	5.6
DoF(mm)	0.4
Length(mm)	74.4
Mount	C-Mount
Coaxial Light	Yes
Field of View(mm x mm)	
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

CLW2-MP-2.0X-65

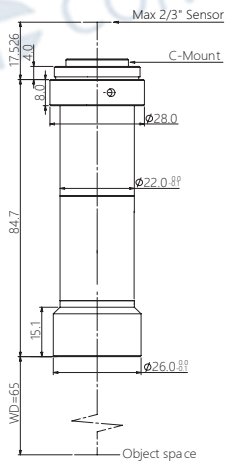
Mag.(x)	2.0
WD(mm)	65±1
Max Sensor Size(Φmm)	11.0(2/3")
F/#	13.2
Telecentricity(° max)	<0.1
Distortion(% max)	<0.23
MTF30(lp/mm)	60
NA	0.074
Resolution(μm)	4.5
DoF(mm)	0.3
Length(mm)	80.0
Mount	C-Mount
Coaxial Light	No
Field of View(mm x mm)	
1/2" (6.4x4.8)	3.2x2.4
1/1.8" (7.13x5.37)	3.6x2.7
2/3" (8.8x6.6)	4.4x3.3

CLW2-MP-2.0X-65D

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)	<0.23
MTF30(lp/mm)	60
NA	0.074
Resolution(μm)	4.5
DoF(mm)	0.3
Length(mm)	80.0
Mount	C-Mount
Coaxial Light	Yes
Field of View(mm x mm)	
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

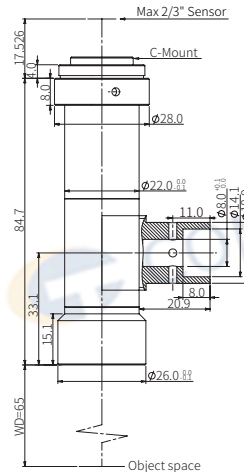
Warm tips: The above DOF is just theoretical value at the ideal aperture (eg. ±763@F11). Actual DOF or the DOF what you need, please check with our sales engineer before order cfm.

CLW2-MP-3.0X-65



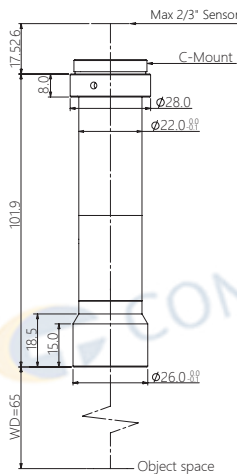
Mag.(x)	3.0
WD(mm)	65±1
Max Sensor Size(Φmm)	11.0(2/3")
F/#	20.2
Telecentricity(° max)	<0.1
Distortion(% max)	<0.23
MTF30(lp/mm)	-
NA	0.0703
Resolution(μm)	4.8
DoF(mm)	0.2
Length(mm)	84.7
Mount	C-Mount
Coaxial Light	No
Field of View(mm x mm)	
1/2" (6.4x4.8)	2.1x1.6
1/1.8" (7.13x5.37)	2.4x1.8
2/3" (8.8x6.6)	2.9x2.2

CLW2-MP-3.0X-65D



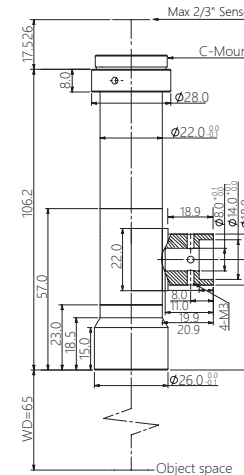
Mag.(x)	3.0
WD(mm)	65±1
Max Sensor Size(Φmm)	11.0(2/3")
F/#	20.2
Telecentricity(° max)	<0.1
Distortion(% max)	<0.23
MTF30(lp/mm)	-
NA	0.0703
Resolution(μm)	4.8
DoF(mm)	0.2
Length(mm)	84.7
Mount	C-Mount
Coaxial Light	Yes
Field of View(mm x mm)	
1/2" (6.4x4.8)	2.1x1.6
1/1.8" (7.13x5.37)	2.4x1.8
2/3" (8.8x6.6)	2.9x2.2

CLW2-MP-4.0X-65



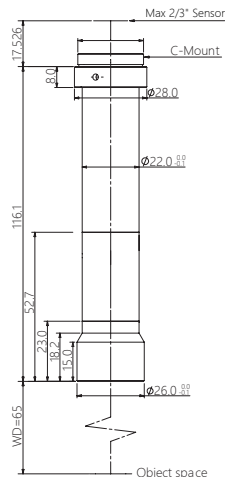
Mag.(x)	4.0
WD(mm)	65±1
Max Sensor Size(Φmm)	11.0(2/3")
F/#	17.9
Telecentricity(° max)	<0.1
Distortion(% max)	<0.23
MTF30(lp/mm)	-
NA	0.1078
Resolution(μm)	3.1
DoF(mm)	0.1
Length(mm)	101.9
Mount	C-Mount
Coaxial Light	No
Field of View(mm x mm)	
1/2" (6.4x4.8)	1.6x1.2
1/1.8" (7.13x5.37)	1.8x1.3
2/3" (8.8x6.6)	2.2x1.7

CLW2-MP-4.0X-65D



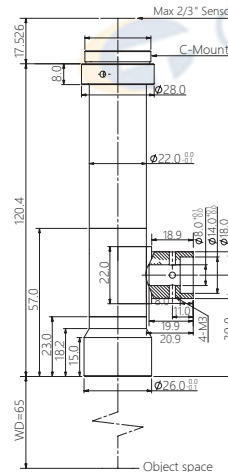
Mag.(x)	4.0
WD(mm)	65±1
Max Sensor Size(Φmm)	11.0(2/3")
F/#	17.9
Telecentricity(° max)	<0.1
Distortion(% max)	<0.23
MTF30(lp/mm)	-
NA	0.1078
Resolution(μm)	3.1
DoF(mm)	0.1
Length(mm)	101.9
Mount	C-Mount
Coaxial Light	Yes
Field of View(mm x mm)	
1/2" (6.4x4.8)	1.6x1.2
1/1.8" (7.13x5.37)	1.8x1.3
2/3" (8.8x6.6)	2.2x1.7

CLW2-MP-6.0X-65



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)	<0.23
MTF30(lp/mm)	-
NA	0.116
Resolution(μm)	2.9
DoF(mm)	0.1
Length(mm)	116.1
Mount	C-Mount
Coaxial Light	No
Field of View(mm x mm)	
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

CLW2-MP-6.0X-65D



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)	<0.23
MTF30(lp/mm)	-
NA	0.116
Resolution(μm)	2.9
DoF(mm)	0.1
Length(mm)	116.1
Mount	C-Mount
Coaxial Light	Yes
Field of View(mm x mm)	
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

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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System Solution
No-programming Software



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