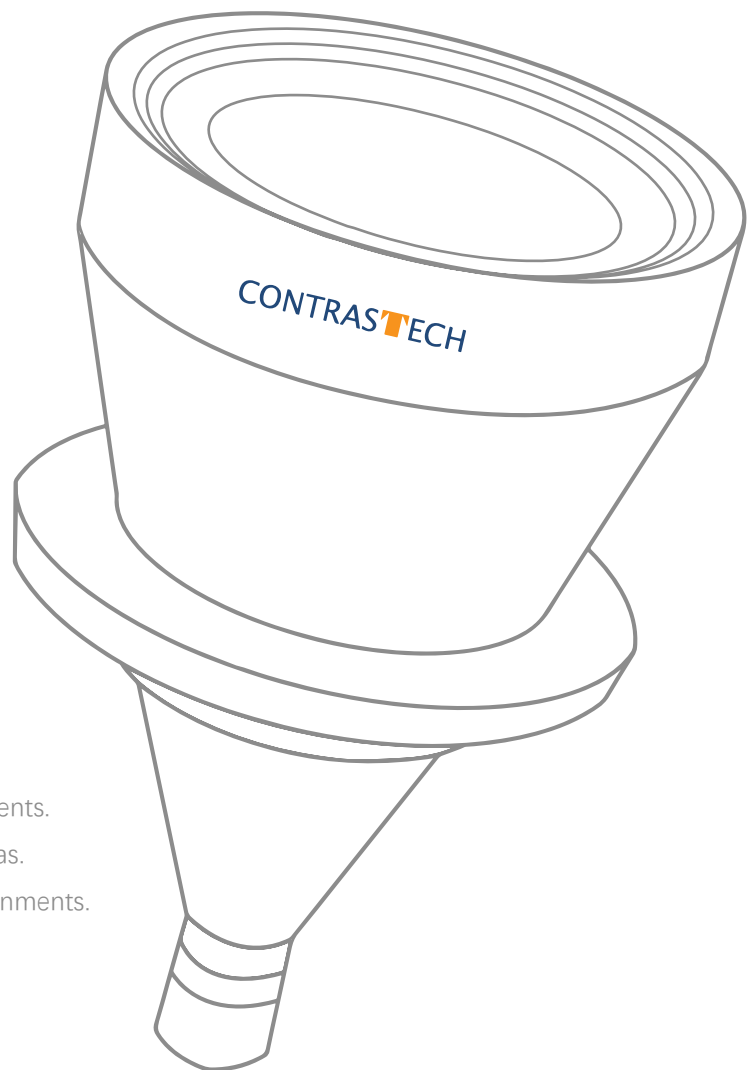


# TELECENTRIC LENSES

## CLW2-MP SERIES

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WD 130/145mm



### 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.

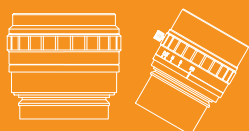
# ABOUT US

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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 130/145mm

1. Compact design with coaxial illumination options;
2. Perfect image and supports all kinds of Mega camera;
3. High contrast, low distortion, high resolution;
4. Optional adjustable Iris for resolution and DOF control.

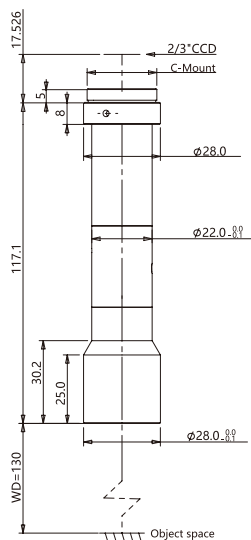


| Model No.             | Optical specs |         |          |         |                        |      |          |                    |                        |        | Mechanical specs |         |
|-----------------------|---------------|---------|----------|---------|------------------------|------|----------|--------------------|------------------------|--------|------------------|---------|
|                       | Variable Iris | Coaxial | Mag. (x) | WD (mm) | Max. Sensor Size (Φmm) | F/#  | DOF (mm) | Distortion (% max) | Telecentricity (° max) | NA     | Length (mm)      | Mount   |
| CLW2-MP-0.8X-130      | No            | No      | 0.8      | 130±2   | 11.0(2/3")             | 12.6 | 1.6      | <0.1               | <0.1                   | 0.0316 | 117.1            | C Mount |
| CLW2-MP-0.8X-130(IA)  | Yes           | No      | 0.8      | 130±2   | 11.0(2/3")             | 12.6 | 1.6      | <0.1               | <0.1                   | 0.0316 | 117.1            | C Mount |
| CLW2-MP-0.8X-130D     | No            | Yes     | 0.8      | 130±2   | 11.0(2/3")             | 12.6 | 1.6      | <0.1               | <0.1                   | 0.0316 | 121.4            | C Mount |
| CLW2-MP-0.8X-130D(IA) | Yes           | Yes     | 0.8      | 130±2   | 11.0(2/3")             | 12.6 | 1.6      | <0.1               | <0.1                   | 0.0316 | 121.4            | C Mount |
| CLW2-MP-0.7X-145      | No            | No      | 0.7      | 145±2   | 11.0(2/3")             | 16.8 | 2.7      | <0.1               | <0.1                   | 0.0207 | 110.4            | C Mount |
| CLW2-MP-0.7X-145(IA)  | Yes           | No      | 0.7      | 145±2   | 11.0(2/3")             | 16.8 | 2.7      | <0.1               | <0.1                   | 0.0207 | 110.4            | C Mount |
| CLW2-MP-0.7X-145D     | No            | Yes     | 0.7      | 145±2   | 11.0(2/3")             | 16.8 | 2.7      | <0.1               | <0.1                   | 0.0207 | 114.7            | C Mount |
| CLW2-MP-0.7X-145D(IA) | Yes           | Yes     | 0.7      | 145±2   | 11.0(2/3")             | 16.8 | 2.7      | <0.1               | <0.1                   | 0.0207 | 114.7            | C Mount |

1. Models with letter "D" support coaxial lights. Models with IA support Variable Iris.

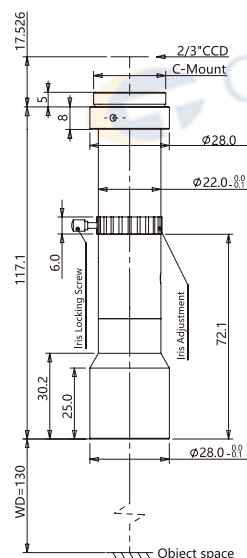
**2. Warm tips:** The above DOF is just theoretical value at the ideal aperture (eg. ±763@F11). Actual DOF or the DOF what you need, please check with our sales engineer before order cfm.

### CLW2-MP-0.8X-130

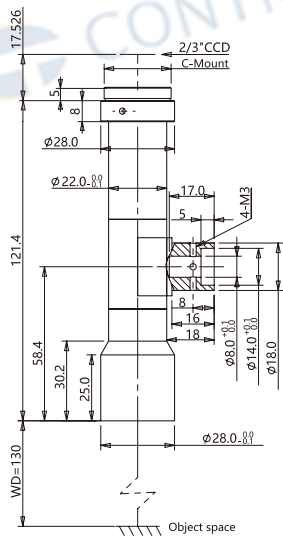


|                        |            |
|------------------------|------------|
| Mag.(x)                | 0.8        |
| WD(mm)                 | 130±2      |
| Max Sensor Size(Φmm)   | 11.0(2/3") |
| F/#                    | 12.6       |
| Telecentricity(° max)  | <0.1       |
| Distortion(% max)      | <0.1       |
| MTF30(lp/mm)           | 65         |
| NA                     | 0.0316     |
| Resolution(μm)         | 10.6       |
| DoF(mm)                | 1.6        |
| Length(mm)             | 117.1      |
| Mount                  | C-Mount    |
| Coaxial Light          | No         |
| Variable Iris          | 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   |

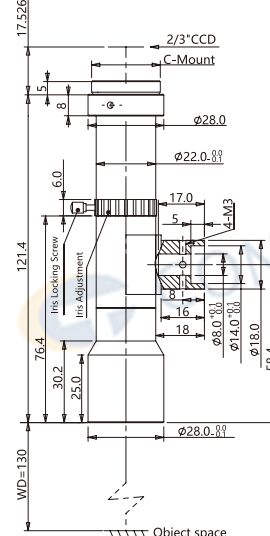
### CLW2-MP-0.8X-130(IA)



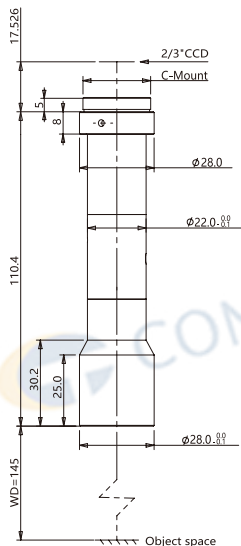
|                        |            |
|------------------------|------------|
| Mag.(x)                | 0.8        |
| WD(mm)                 | 130±2      |
| Max Sensor Size(Φmm)   | 11.0(2/3") |
| F/#                    | 12.6       |
| Telecentricity(° max)  | <0.1       |
| Distortion(% max)      | <0.1       |
| MTF30(lp/mm)           | 65         |
| NA                     | 0.0316     |
| Resolution(μm)         | 10.6       |
| DoF(mm)                | 1.6        |
| Length(mm)             | 117.1      |
| Mount                  | C-Mount    |
| Coaxial Light          | No         |
| Variable Iris          | 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-0.8X-130D**

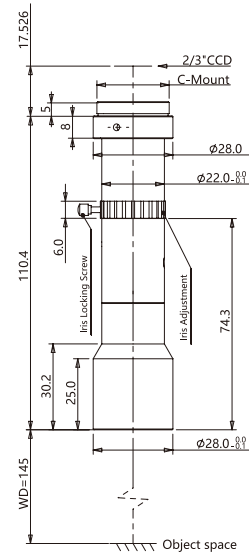
|                        |            |
|------------------------|------------|
| Mag.(x)                | 0.8        |
| WD(mm)                 | 130±2      |
| Max Sensor Size(Φmm)   | 11.0(2/3") |
| F/#                    | 12.6       |
| Telecentricity(° max)  | <0.1       |
| Distortion(% max)      | <0.1       |
| MTF30(lp/mm)           | 65         |
| NA                     | 0.0316     |
| Resolution(μm)         | 10.6       |
| DoF(mm)                | 1.6        |
| Length(mm)             | 121.4      |
| Mount                  | C-Mount    |
| Coaxial Light          | Yes        |
| Variable Iris          | 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-130D(IA)**

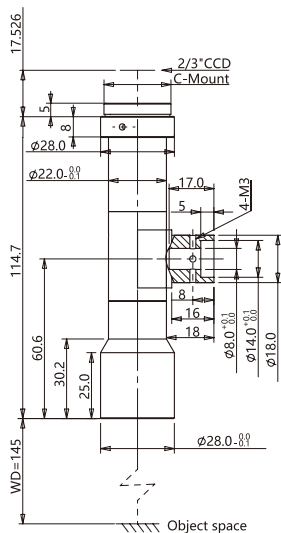
|                        |            |
|------------------------|------------|
| Mag.(x)                | 0.8        |
| WD(mm)                 | 130±2      |
| Max Sensor Size(Φmm)   | 11.0(2/3") |
| F/#                    | 12.6       |
| Telecentricity(° max)  | <0.1       |
| Distortion(% max)      | <0.1       |
| MTF30(lp/mm)           | 65         |
| NA                     | 0.0316     |
| Resolution(μm)         | 10.6       |
| DoF(mm)                | 1.6        |
| Length(mm)             | 121.4      |
| Mount                  | C-Mount    |
| Coaxial Light          | Yes        |
| Variable Iris          | 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-0.7X-145**

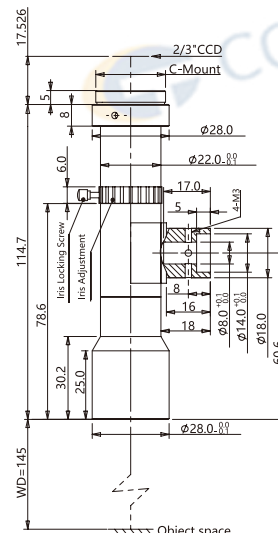
|                        |            |
|------------------------|------------|
| Mag.(x)                | 0.7        |
| WD(mm)                 | 145±2      |
| Max Sensor Size(Φmm)   | 11.0(2/3") |
| F/#                    | 16.8       |
| Telecentricity(° max)  | <0.1       |
| Distortion(% max)      | <0.1       |
| MTF30(lp/mm)           | 55         |
| NA                     | 0.0207     |
| Resolution(μm)         | 16.2       |
| DoF(mm)                | 2.7        |
| Length(mm)             | 110.4      |
| Mount                  | C-Mount    |
| Coaxial Light          | No         |
| Variable Iris          | No         |
| Field of View(mm x mm) |            |
| 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   |

**CLW2-MP-0.7X-145(IA)**

|                        |            |
|------------------------|------------|
| 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       |
| MTF30(lp/mm)           | 55         |
| NA                     | 0.0207     |
| Resolution(μm)         | 16.2       |
| DoF(mm)                | 2.7        |
| Length(mm)             | 110.4      |
| Mount                  | C-Mount    |
| Coaxial Light          | No         |
| Variable Iris          | Yes        |
| Field of View(mm x mm) |            |
| 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   |

**CLW2-MP-0.7X-145D**

|                        |            |
|------------------------|------------|
| 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       |
| MTF30(lp/mm)           | 55         |
| NA                     | 0.0207     |
| Resolution(μm)         | 16.2       |
| DoF(mm)                | 2.7        |
| Length(mm)             | 114.7      |
| Mount                  | C-Mount    |
| Coaxial Light          | Yes        |
| Variable Iris          | No         |
| Field of View(mm x mm) |            |
| 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   |

**CLW2-MP-0.7X-145D(IA)**

|                        |            |
|------------------------|------------|
| 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       |
| MTF30(lp/mm)           | 55         |
| NA                     | 0.0207     |
| Resolution(μm)         | 16.2       |
| DoF(mm)                | 2.7        |
| Length(mm)             | 114.7      |
| Mount                  | C-Mount    |
| Coaxial Light          | Yes        |
| Variable Iris          | Yes        |
| Field of View(mm x mm) |            |
| 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   |

**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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Industrial Lens



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