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## Optical Specification

|                        |                  |
|------------------------|------------------|
| Model                  | OPT-CH10-110-F22 |
| Optical Configuration  | Telecentric      |
| Working Distance (mm)  | 110±2            |
| Magnification          | 1.0X             |
| Sensor Ø(mm)           | 11.0(2/3")       |
| Aperture               | F22              |
| Telecentricity         | 0.10°            |
| NA                     | 0.02265          |
| Distortion             | <0.1%            |
| Depth of Field (mm)    | 1.82             |
| Object Resolution (μm) | 14.81            |
| Resolution (μm)        | 11.1             |
| Image MTF30(lp/mm)     | 45               |
| Field of View Ø(mm)    | 11.00            |
| O/I Distance (mm)      | 237.4            |
| Mount                  | C-Mount          |
| Weight (kg)            | 0.20             |
| Size (mm)              | Ø36.0×109.9      |
| Filter Thread (mm)     | M34×0.5-6H       |
| Working temperature    | -20℃~+60℃        |

[1]Resolution:The resolution is the image resolution.

[2]WD:The distance between the front end of the mechanism and the object.

[3]DOF evaluation formula for telecentric lenses:

$$\text{DOF(mm)} = \frac{F\# \times P \times k}{\beta \times \beta}$$

F#:The real F-number of a lens when used

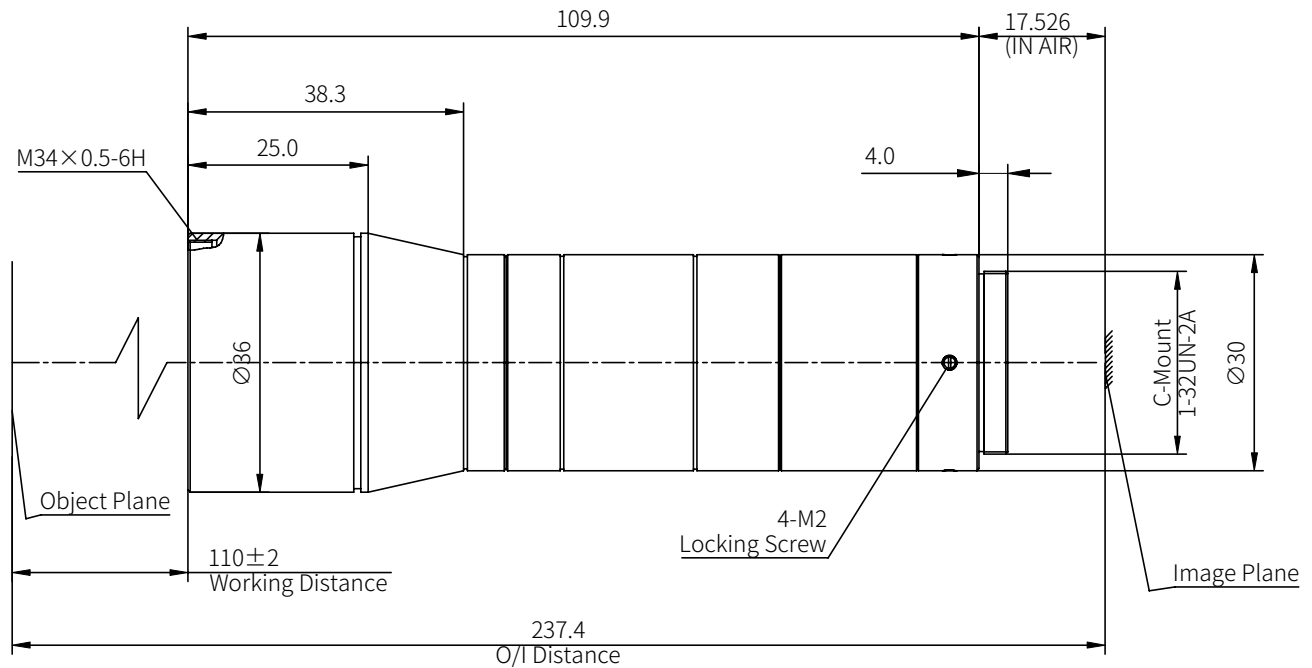
P:Sensor pixel size(5.5 μm used here)

β:Lens magnification

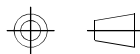
k:The parameter based on application (measurement,

k=0.015;defect detection, k=0.008;0.015 used here)

At the borders of DOF,the image can still be used for measurement. But only half of the nominal DOF should be used to get a sharp image.



View Angle



Item

Signature

Date



OPT Machine Vision Tech Co., Ltd.

Standard Difference

IT14

Drawing

Design

Check

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Drawing Code

Scale

Paper Size

A4

Name

Unit

mm

OPT-CH10-110-F22

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Version

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