

| Optical Specification |                 |
|-----------------------|-----------------|
| Model                 | OPT-HP08-110-F8 |
| Optical Configuration | Bi-Telecentric  |
| Working Distance (mm) | 110±2           |
| Magnification         | 0.8X            |
| Sensor Ø (mm)         | 18.4(1.1")      |
| Aperture              | F8.0            |
| Telecentricity        | 0.10°           |
| NA                    | 0.04996         |
| Distortion            | <0.1%           |
| Depth of Field (mm)   | 1.03            |
| Resolution (µm)       | 4.2             |
| Image MTF30 (lp/mm)   | 120             |
| Field of View Ø (mm)  | 23.00           |
| O/I Distance (mm)     | 279             |
| Mount                 | C-Mount         |
| Weight (kg)           | 0.51            |
| Size (mm)             | Ø 60×151.5      |
| Filter Thread (mm)    | M56×0.75-6H     |
| Working Temperature   | -20℃~+60℃       |

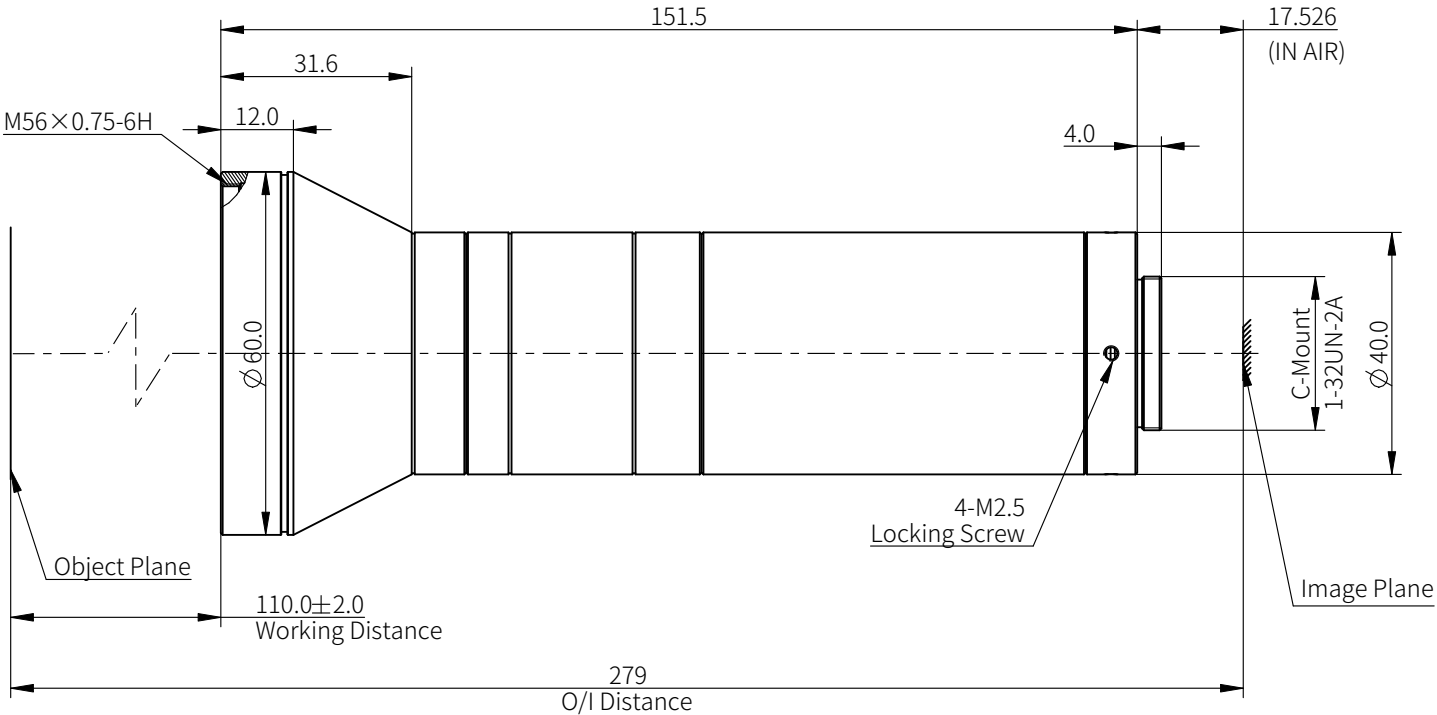
- [1]Resolution:The resolution is the image resolution.  
[2]DOF evaluation formula for telecentric lenses:

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

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 | <b>OPT Machine Vision Tech Co., Ltd.</b> |                 |            |              |
|                     |      | Drawing    |           |      |                                          |                 |            |              |
| Standard Difference | IT14 | Design     |           |      | All Rights Reserved                      |                 |            |              |
|                     |      | Check      |           |      |                                          |                 |            |              |
| Drawing Code        |      | Scale      | 4:5       |      | Name                                     | OPT-HP08-110-F8 |            |              |
|                     |      | Paper Size | A4        |      | Unit                                     | mm              | Page 1 / 1 | Version V1.0 |