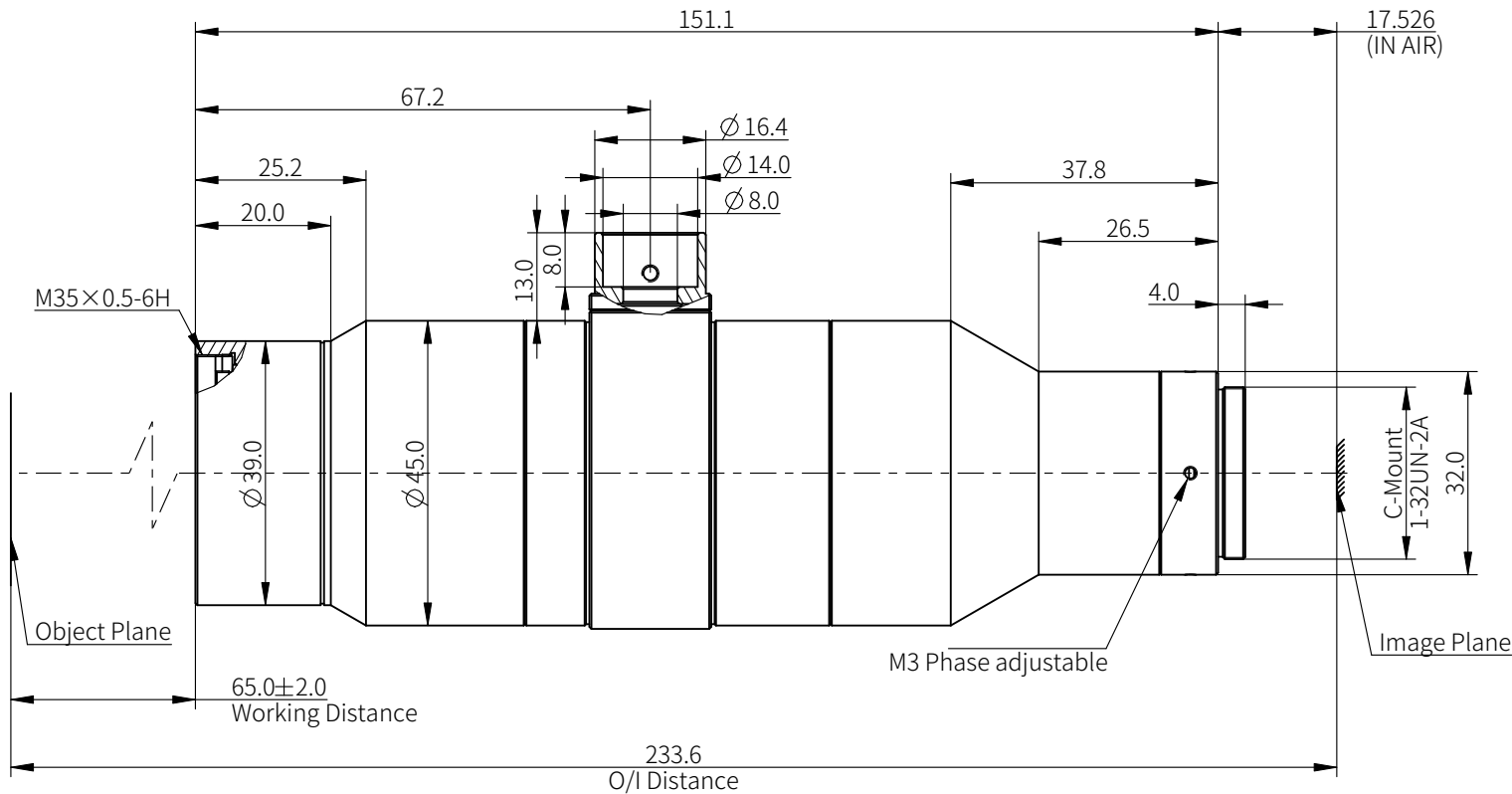


| Optical Specification |                 |
|-----------------------|-----------------|
| Model                 | OPT-HP20-65C-F7 |
| Optical Configuration | Telecentric     |
| Working Distance (mm) | 65± 2           |
| Magnification         | 2.0X            |
| Sensor Ø (mm)         | 18.4(1.1")      |
| Aperture              | F7.0            |
| Telecentricity        | 0.10°           |
| NA                    | 0.14142         |
| Distortion            | <0.1%           |
| Depth of Field (mm)   | 0.14            |
| Resolution (µm)       | 3.85            |
| Image MTF30 (lp/mm)   | 130             |
| Field of View Ø (mm)  | 9.20            |
| O/I Distance (mm)     | 233.6           |
| Mount                 | C-Mount         |
| Weight (kg)           | 0.49            |
| Size (mm)             | Ø 45×151.1      |
| Filter Thread (mm)    | M35×0.5-6H      |
| Working Temperature   | -20°C~+60°C     |



[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      | 9:10      |      | Name                                     | OPT-HP20-65C-F7 |            |              |
|                     |      | Paper Size | A4        |      | Unit                                     | mm              | Page 1 / 1 | Version V1.0 |