

TECHSPEC®

8mm Focal Length, HP Series Fixed Focal Length Lens



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Iris Option:  
Variable

Length (mm):  
90.46

Horizontal Field of View, 1/2" Sensor:  
103.0mm - 44.1°

Horizontal Field of View, 2/3" Sensor:

|                                                                                                                                   |
|-----------------------------------------------------------------------------------------------------------------------------------|
| 143.8mm - 58.5°                                                                                                                   |
| <b>Filter Thread:</b><br>M105 x 1.00 with adapter <a href="#">#89-365</a>                                                         |
| <b>Maximum Diameter (mm):</b><br>70.4                                                                                             |
| <b>Outer Diameter (mm):</b><br>70.4                                                                                               |
| <b>Weight (g):</b><br>347                                                                                                         |
| <b>Horizontal Field of View, 1/3" Sensor:</b><br>76.6mm - 33.7°                                                                   |
| <b>Maximum Rear Protrusion (mm):</b><br>2.46                                                                                      |
| <b>Horizontal Field of View, 1" Sensor:</b><br>215.2mm - 78.4°                                                                    |
| <b>Maximum Image Circle (mm):</b><br>17.60                                                                                        |
| <b>Numerical Aperture NA, Object Side:</b><br>0.0174                                                                              |
| <b>Horizontal Field of View @ Max Sensor Format:</b><br>240.8mm - 83.9°                                                           |
| <b>Horizontal Field of View, 1.1" Sensor:</b><br>240.8mm - 83.9°                                                                  |
| <b>Number of Elements (Groups):</b><br>10 (8)                                                                                     |
| <b>Horizontal Field of View, 1/1.8" Sensor:</b><br>116.4mm - 49.1°                                                                |
| <b>Front Thread:</b><br>M70 x 0.5 (Male)                                                                                          |
| <b>Horizontal Field of View, 1/2.5" Sensor:</b><br>93.0mm - 40.3°                                                                 |
| <b>Type:</b><br>Fixed Focal Length Lens                                                                                           |
| <b>Diameter (mm):</b><br>-0.01                                                                                                    |
| <b>Focal Length FL (mm):</b><br>8.00                                                                                              |
| <b>Primary Magnification PMAG:</b><br>0.064                                                                                       |
| <b>Maximum Sensor Format:</b><br>1.1"                                                                                             |
| <b>Working Distance (mm):</b><br>100 - ∞                                                                                          |
| <b>Mount:</b><br>C-Mount                                                                                                          |
| <b>Aperture (f/#):</b><br>f/1.8 - f/16                                                                                            |
| <b>Coating:</b><br>N4 MgF <sub>2</sub>                                                                                            |
| <b>Coating Specification:</b><br>N4 MgF <sub>2</sub>                                                                              |
| <b>Entrance Pupil Position (mm):</b><br>28.16                                                                                     |
| <b>Horizontal Field of View, 1/4" Sensor:</b><br>57.2mm - 25.5°                                                                   |
| <b>Object Space Principal Plane (mm):</b><br>34.63                                                                                |
| <b>Image Space Principal Plane (mm):</b><br>4.56                                                                                  |
| <b>Field of View at Max Sensor Format:</b><br>Horizontal: 238.5mm - 83.5°<br>Vertical: 174.7mm - 68°<br>Diagonal: 305.3mm - 94.8° |
| <b>Maximum Distortion (%):</b><br>-1.92                                                                                           |
| <b>Maximum Length (mm):</b><br>83.5                                                                                               |
| <b>Exit Pupil Position (mm):</b><br>-28.8                                                                                         |
| <b>Lens Wavelength Range:</b><br>VIS                                                                                              |
| <b>Imaging Lens Type:</b><br>High Performance Lens                                                                                |

**Storage Temperature (°C):**  
-20 to +60 For questions regarding operating temperature please contact our support team

Regulatory Compliance

**RoHS 2015:**  
[Compliant](#)

**Reach 209:**  
[Compliant](#)

**Certificate of Conformance:**  
[View](#)

