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TECHSPEC® 35mm f/2.8, HPr Series Fixed Focal Length Lens



35mm FL HPr Series Lens

Stock **#36-527** **2 In Stock**

⊖ 1 ⊕ **\$\$\$952⁰⁰**

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General

HP_r Series **Product Family:**
Fixed Focal Length Lens **Type:**

Physical & Mechanical Properties

Fixed **Iris Option:**
69.82 **Length (mm):**

39 **Maximum Diameter (mm):**

39 **Outer Diameter (mm):**

125 **Weight (g):**

4 **Maximum Rear Protrusion (mm):**

Optical Properties

Horizontal Field of View @ Max Sensor Format:
92.8mm - 22.9°

Field of View at Max Sensor Format:
Horizontal: 92mm - 22.7°
Vertical: 68.6mm - 17.1°
Diagonal: 116mm - 28.1°

Horizontal Field of View, 1.1" Sensor:
92.8mm - 22.9°

Horizontal Field of View, 1" Sensor:
83.4mm - 20.7°

17.60 **Maximum Image Circle (mm):**

0.0259 **Numerical Aperture NA, Object Side:**

7 (6) **Number of Elements (Groups):**

35.00 **Focal Length FL (mm):**

200 - ∞ **Working Distance (mm):**

f/2.8 **Aperture (f/#):**

λ/4 MgF₂ **Coating:**

λ/4 MgF₂ **Coating Specification:**

36.51 **Entrance Pupil Position (mm):**

55.84 **Object Space Principal Plane (mm):**

-19.37 **Image Space Principal Plane (mm):**

0.41 **Maximum Distortion (%):**

-62.56 **Exit Pupil Position (mm):**

200 - ∞ **Optimized Working Distance (mm):**

VIS **Lens Wavelength Range:**

Sensor

1.1" **Maximum Sensor Format:**

1.85 **Pixel Size (μm):**

Threading & Mounting

M37 x 0.75 (Female) **Filter Thread:**

C-Mount **Mount:**

Environmental & Durability Factors

-20 to +60 **Storage Temperature (°C):**

Stabilized (Robust Mechanics for Shock and Vibration) **Type of Ruggedization:**

Regulatory Compliance

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

Product Details

- 1.1", C-Mount Lens
- Up to 20 MegaPixels, 1.85µm Pixel Size Sensors
- Ruggedized (HPr) Designs (50g Shock) of our HP Series Lens with Individual Optics Glued in Place
- 16mm to 50mm Focal Length
- **Instrumentation (HPi) Versions** Also Available

TECHSPEC® HPr Series Fixed Focal Length Lenses provide a stabilized ruggedization that maintains optical pointing stability after shock and vibration without sacrificing performance. This makes them ideal for calibrated imaging systems such as measurement and gauging, 3D stereo vision, robotics and sensing, autonomous vehicles, and object tracking. Every lens element is glued in place so that object to image mapping is always maintained. Additionally, the TECHSPEC HPr Series Fixed Focal Length Lenses feature a robust mechanical design with a simplified focus and stainless steel locking C-Mount clamp. Call for OEM Quantity Pricing.

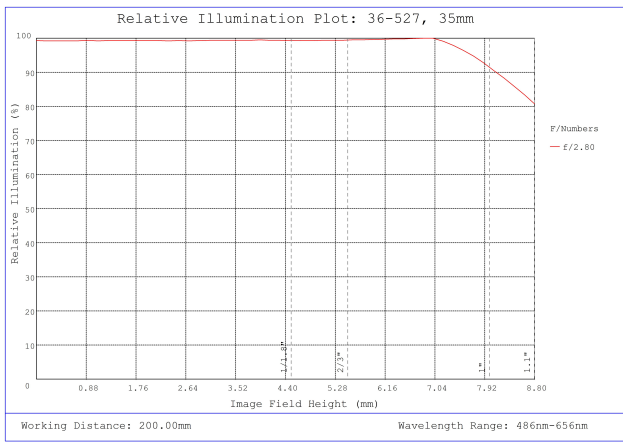
Edmund Optics has created a family of high performance optical designs (the HP Series family) and developed three customized optomechanical solutions targeted for specific applications. These lens sub-families utilize the same optics as the HP Series lenses providing the same optical performance in a variety of optomechanical solutions to meet your application requirements:

- **HP Series:** Features locking cam focus and iris adjustment. This is the most adjustable version of these optical designs and is the typical high quality machine vision lens.
- **HPi Series:** Simplified mechanics featuring fixed apertures with compact housing. **Industrial Ruggedization** for reduced size, cost, and locked focus.
- **HPr Series:** All optics glued in place and a locking C-clamp focus ring. **Stabilized Ruggedization** for reduced pixel shift and improved focus stability.

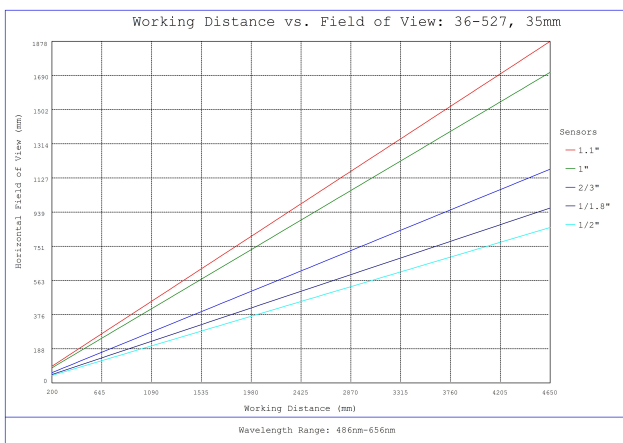
Technical Information



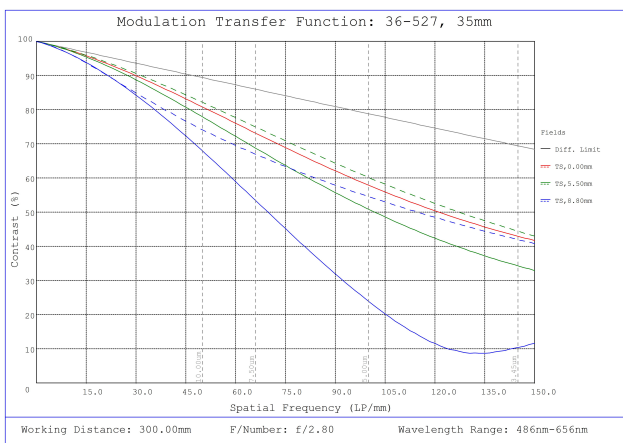
#36-527, 35mm f/2.8, HPr Series Fixed Focal Length Lens, Distortion Plot



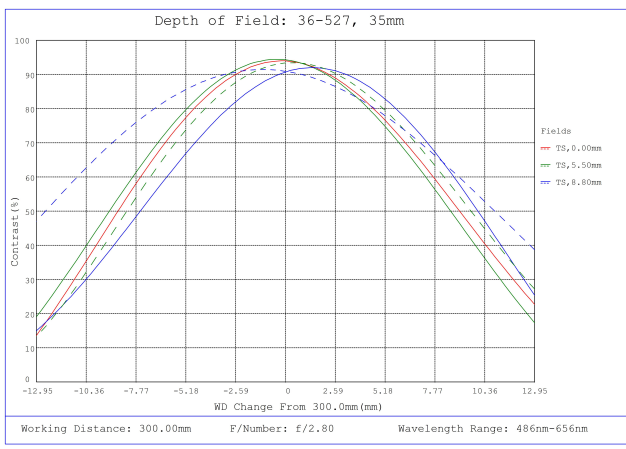
#36-527, 35mm f/2.8, HPr Series Fixed Focal Length Lens, Relative Illumination Plot



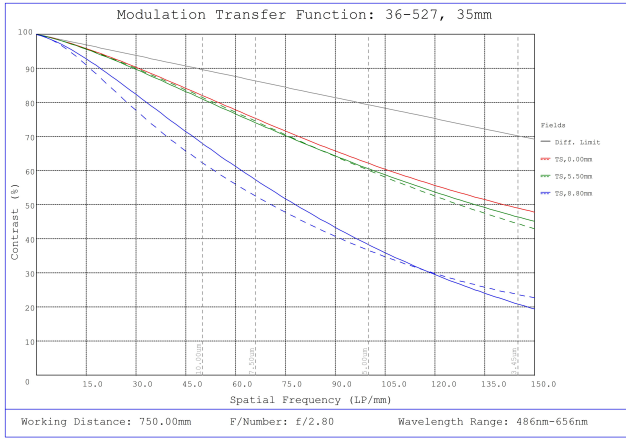
#36-527, 35mm f/2.8, HPr Series Fixed Focal Length Lens, Working Distance versus Field of View Plot



#36-527, 35mm f/2.8, HPr Series Fixed Focal Length Lens, Modulated Transfer Function (MTF) Plot, 300mm Working Distance, f2.8



#36-527, 35mm f/2.8, HPr Series Fixed Focal Length Lens, Depth of Field Plot, 300mm Working Distance, f2.8



#36-527, 35mm f/2.8, HPr Series Fixed Focal Length Lens, Modulated Transfer Function (MTF) Plot, 750mm Working Distance, f2.8



#36-527, 35mm f/2.8, HPr Series Fixed Focal Length Lens, Depth of Field Plot, 750mm Working Distance, f2.8

Compatible Cameras