

TECHSPEC® 35mm Focal Length, HP+ Series Fixed Focal Length Lens



Stock #20-227 **11 In Stock**

⊖ 1 ⊕ **SS\$1,176⁰⁰**

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General

HP+ Series **Series:**

Fixed Focal Length Lens **Type:**

High Performance Lens **Imaging Lens Type:**

Physical & Mechanical Properties

Variable **Iris Option:**

51.80	Length (mm):
40	Maximum Diameter (mm):
40	Outer Diameter (mm):
127	Weight (g):
4.42	Maximum Rear Protrusion (mm):
51.8	Maximum Length (mm):
49.1	Minimum Length (mm):

Optical Properties

23.4°	Horizontal Field of View @ Max Sensor Format:
Horizontal: 23.5° Vertical: 20.4° Diagonal: 30.8°	Field of View at Max Sensor Format:
22.8°	Horizontal Field of View, 1.1" Sensor:
20.8°	Horizontal Field of View, 1" Sensor:
14.3°	Horizontal Field of View, 2/3" Sensor:
11.8°	Horizontal Field of View, 1/1.8" Sensor:
10.5°	Horizontal Field of View, 1/2" Sensor:
19.30	Maximum Image Circle (mm):
0.0282	Numerical Aperture NA, Object Side:
7(6)	Number of Elements (Groups):
35.00	Focal Length FL (mm):
200 - ∞	Working Distance (mm):
f/2.8 – 16	Aperture (f/#):
M4 MgF ₂	Coating:
M4 MgF ₂	Coating Specification:
20.61	Entrance Pupil Position (mm):
31.10	Object Space Principal Plane (mm):
-22.60	Image Space Principal Plane (mm):
0.37	Maximum Distortion (%):
-35.62	Exit Pupil Position (mm):
VIS	Lens Wavelength Range:

Sensor

1.2"	Maximum Sensor Format:
2.74	Pixel Size (µm):

Threading & Mounting

M25.5 x 0.5 (Female)	Filter Thread:
C-Mount	Mount:

Environmental & Durability Factors

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

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

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

[Compliant](#) **Reach 235:**

Product Details

- 1.2", C-Mount Lenses
- Up to 24.5 MegaPixels, 2.74µm Pixel Size Sensors
- 16mm to 35mm Focal Length

TECHSPEC® HP+ Series Fixed Focal Length Lenses are designed to provide exceptional performance for the harsh demands of factory [automation \(FA\)](#) and machine vision. These lenses are designed for use with Sony's 4th Generation Pregius S™ 24.5MP 1.2" IMX530 and IMX540 sensors. The f/2.8 aperture provide increased light throughput and high-resolution performance. TECHSPEC® HP+ Series Fixed Focal Length Lenses are C-Mount and feature a locking focus and iris rings to prevent unwanted adjustments, as well as a front filter thread for integrating standard optical filters. These lenses are ideal for measurement and gauging, 3D stereo vision, and object tracking.

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.
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