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**TECHSPEC® 16mm Focal Length, HP+ Series Fixed Focal Length Lens**



Stock #20-225 **1 In Stock**

- 1 + €950<sup>00</sup>

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Qty 1+	€950,00 each
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ⓘ Prices shown are exclusive of VAT/local taxes

Product Downloads

**General**

HP+ Series **Product Family:**

Fixed Focal Length Lens **Type:**

High Performance Lens **Imaging Lens Type:**

**Physical & Mechanical Properties**

Variable **Iris Option:**

111.04	Length (mm):
62	Maximum Diameter (mm):
62	Outer Diameter (mm):
488	Weight (g):
0	Maximum Rear Protrusion (mm):
111.2	Maximum Length (mm):
109.2	Minimum Length (mm):

## Optical Properties

52.0°	Horizontal Field of View @ Max Sensor Format:
Horizontal: 52° Vertical: 45.2° Diagonal: 67.5°	Field of View at Max Sensor Format:
50.3°	Horizontal Field of View, 1.1" Sensor:
45.9°	Horizontal Field of View, 1" Sensor:
31.7°	Horizontal Field of View, 2/3" Sensor:
26.1°	Horizontal Field of View, 1/1.8" Sensor:
23.3°	Horizontal Field of View, 1/2" Sensor:
19.30	Maximum Image Circle (mm):
0.0206	Numerical Aperture NA, Object Side:
9 (7)	Number of Elements (Groups):
16.00	Focal Length FL (mm):
100 - ∞	Working Distance (mm):
f/2.8 – 16	Aperture (f/#):
M4 MgF <sub>2</sub>	Coating:
M4 MgF <sub>2</sub>	Coating Specification:
36.46	Entrance Pupil Position (mm):
47.50	Object Space Principal Plane (mm):
-15.70	Image Space Principal Plane (mm):
8.32	Maximum Distortion (%):
-54.67	Exit Pupil Position (mm):
VIS	Lens Wavelength Range:

## Sensor

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

## Threading & Mounting

M62x0.75 (Male)	Filter Thread:
C-Mount	Mount:

## Environmental & Durability Factors

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

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## Regulatory Compliance

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

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

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

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## 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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