

TECHSPEC[®] 12mm Focal Length, HP+ Series Fixed Focal Length Lens



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+

S\$752⁰⁰

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SPECIFICATIONS

General

Type:

Fixed Focal Length Lens

Imaging Lens Type:

High Performance Lens

Physical & Mechanical Properties

Variable	Iris Option:
89.33	Length (mm):
44	Maximum Diameter (mm):
44	Outer Diameter (mm):
0	Maximum Rear Protrusion (mm):
89.33	Maximum Length (mm):
87.74	Minimum Length (mm):

Optical Properties

71.2°	Horizontal Field of View @ Max Sensor Format:
Horizontal: 71.2° Vertical: 53.3° Diagonal: 86.2°	Field of View at Max Sensor Format:
65.8°	Horizontal Field of View, 1.1" Sensor:
59.6°	Horizontal Field of View, 1" Sensor:
41.4°	Horizontal Field of View, 2/3" Sensor:
34°	Horizontal Field of View, 1/1.8" Sensor:
30.2°	Horizontal Field of View, 1/2" Sensor:
19.30	Maximum Image Circle (mm):
0.0126	Numerical Aperture NA, Object Side:
12 (9)	Number of Elements (Groups):
12.00	Focal Length FL (mm):
100mm to ∞	Working Distance (mm):
f/2.8 – 16	Aperture (f/#):
N4 MgF ₂	Coating:
N4 MgF ₂	Coating Specification:
19.38	Entrance Pupil Position (mm):
29.37	Object Space Principal Plane (mm):
-10.78	Image Space Principal Plane (mm):
15.76	Maximum Distortion (%):
-55.45	Exit Pupil Position (mm):
VS	Wavelength:

Sensor

1.2"	Maximum Sensor Format:

Threading & Mounting

M46 x0.75 (Male)	Filter Thread:
C-Mount	Mount:

Environmental & Durability Factors

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

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.