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# 35mm f/4 HPi+ Lens 1.2"

Stock **#29-286** **1 In Stock**

- 1 + **S$672.00**

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## General

| | |
|---|---|
| **Product Family:** | HPi+ Series |
| **Type:** | Fixed Focal Length Lens |
| **Imaging Lens Type:** | High Performance Lens |

## Physical & Mechanical Properties

| | |
|---|---|
| **Iris Option:** | Fixed |

**Length (mm):**
47.30

**Outer Diameter (mm):**
34.5

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

## Optical Properties

**Horizontal Field of View @ Max Sensor Format:**
23.4°

**Horizontal Field of View, 1.1" Sensor:**
22.8°

**Horizontal Field of View, 1" Sensor:**
20.8°

**Horizontal Field of View, 2/3" Sensor:**
14.3°

**Horizontal Field of View, 1/1.8" Sensor:**
11.8°

**Horizontal Field of View, 1/2" Sensor:**
10.5°

**Maximum Image Circle (mm):**
19.30

**Number of Elements (Groups):**
8

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

**Working Distance (mm):**
200 - ∞

**FOV @ Max Sensor Format, H x V (mm):**
Horizontal: 23.5° Vertical: 20.4° Diagonal: 30.8°

**Aperture (f/#):**
f/4

**Coating:**
λ/4 MgF2

**Coating Specification:**
λ/4 MgF2

**Entrance Pupil Position (mm):**
20.61

**Object Space Principal Plane (mm):**
31.10

**Image Space Principal Plane (mm):**
-22.60

**Maximum Distortion (%):**
0.37

**Exit Pupil Position (mm):**
-35.62

**Lens Wavelength Range:**
VIS

**Wavelength:**
VIS

## Sensor

**Maximum Sensor Format:**
1.2"

**Pixel Size (µm):**
2.74

## Threading & Mounting

**Filter Thread:**
M25.5 x 0.50

**Mount:**
C-Mount

## Environmental & Durability Factors

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

**Type of Ruggedization:**
Industrial (Fixed Aperture with Simplified Mechanics)

## Regulatory Compliance

**Certificate of Conformance:**
View

# Product Details

- Instrumentation (HPi+) versions of our HP+ Series Lenses with Streamlined Mechanical Designs and Fixed Apertures
- 1.2", C-Mount Lenses
- Up to 24.5 MegaPixels, 2.74µm Pixel Size Sensors
- 16mm to 35mm Focal Length

TECHSPEC® HPi+ 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® HPi+ Series Fixed Focal Length Lenses are C-Mount and are designed without an iris or focusing mechanism to drive down size, weight, and cost. These lenses are ideal for measurement and gauging, 3D stereo vision, and object tracking.

HP+ Series: Features locking focus and iris rings to prevent unwanted adjustments and are designed for factory automation.
**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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