TECHSPEC® 6.5mm Focal Length, HP Series Fixed Focal Length Lens

#86-568



Phone: 1-800-363-1992 or 1-856-573-6250, Fax: 1-856-573-6295
101 EAST GLOUCESTER PIKE | P.O BOX 9000
BARRINGTON, NJ 08007-1380 USA
www.edmundoptics.com

TECHSPEC® HP Series Fixed Focal Length Lenses are designed for the harsh demands of factory automation (FA) and machine vision (MV) applications. The 6.5mm, 8mm, 12mm, 16mm, 25mm, and 35mm lenses are compatible with 1” and 1.1” sensor formats, while the 50mm lens is compatible with up to 4/3” sensor formats. The f/1.8 and f/2.8 apertures 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. Call for OEM Quantity Pricing.

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General

Product Family:	HP Series
Note:	Not compatible with camera mounted, c-mount filters
Type:	Fixed Focal Length Lens
Imaging Lens Type:	High Performance Lens

Physical & Mechanical Properties

Iris Option:	Variable
Length (mm):	77.17
Maximum Diameter (mm):	78.00
Outer Diameter (mm):	78.00
Weight (g):	392
Maximum Rear Protrusion (mm):	0
Maximum Length (mm):	77.17
Minimum Length (mm):	76.97

Optical Properties

Horizontal Field of View @ Max Sensor Format:	91.4°
Horizontal Field of View, 1.1" Sensor:	91.4°
Horizontal Field of View, 1" Sensor:	83.9°
Horizontal Field of View, 2/3" Sensor:	60.5°
Horizontal Field of View, 1/1.8" Sensor:	50.2°
Horizontal Field of View, 1/2" Sensor:	44.9°
Horizontal Field of View, 1/2.5" Sensor:	40.8°
Horizontal Field of View, 1/3" Sensor:	34.0°
Horizontal Field of View, 1/4" Sensor:	25.6°
Maximum Image Circle (mm):	17.60
Numerical Aperture NA, Object Side:	0.0112
Number of Elements (Groups):	11 (10)
Focal Length FL (mm):	6.50
Working Distance (mm):	100 - ∞
Aperture (f/#):	f/2.0 - f/16
Coating:	λ/4 MgF_2
Coating Specification:	λ/4 MgF_2
Entrance Pupil Position (mm):	25.19
Object Space Principal Plane (mm):	31.30

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Exit Pupil Position (mm):	-40.21
Lens Wavelength Range:	VIS
Wavelength:	VIS

Sensor

Maximum Sensor Format:	1.1"
Pixel Size, H x V (µm):	1.85 x 1.85

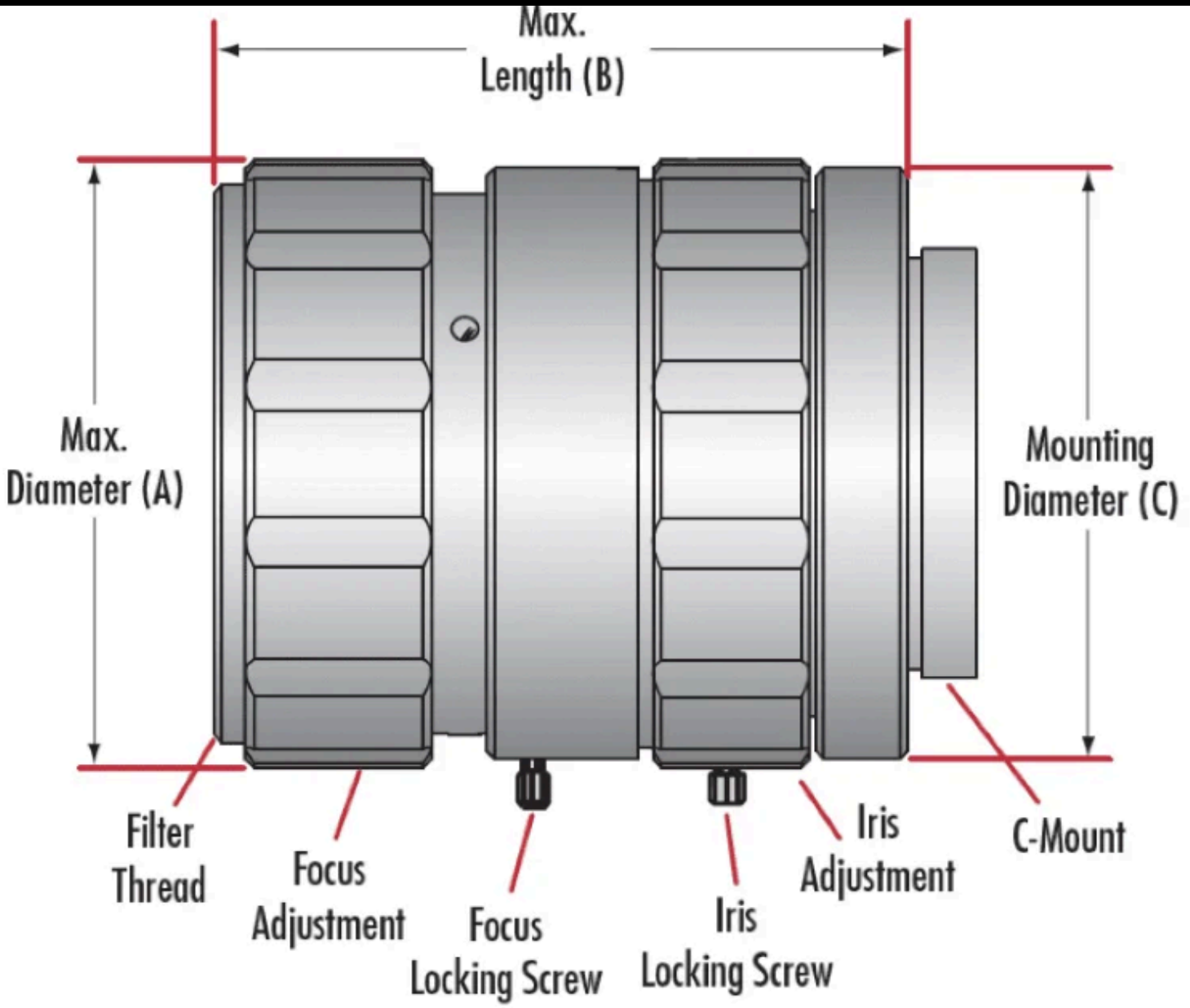
Threading & Mounting

Mount:	C-Mount

Environmental & Durability Factors

Storage Temperature (°C):	-20 to +60

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October 20, 2026

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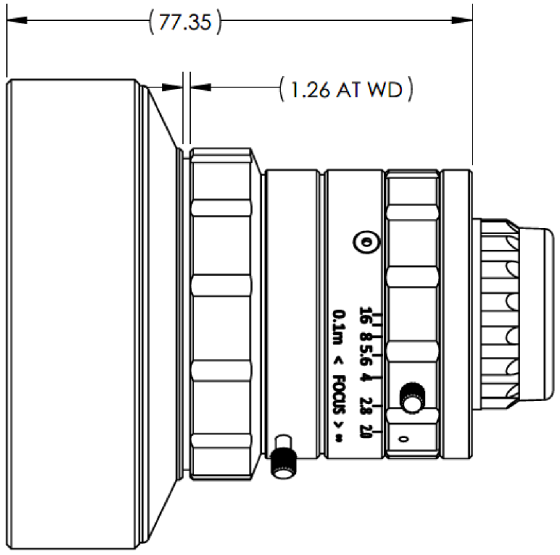
Stock No.	Description
86-568	6.5mm Focal Length, HP Series Fixed Focal Length Lens

Edmund Optics certifies that all articles included in this shipment are in compliance with the terms and conditions of this order. The company also certifies that the articles included in this shipment are in accordance to all agreed upon specifications and quality assurance provisions. Please call 1-800-363-1992 should any questions arise from this shipment.

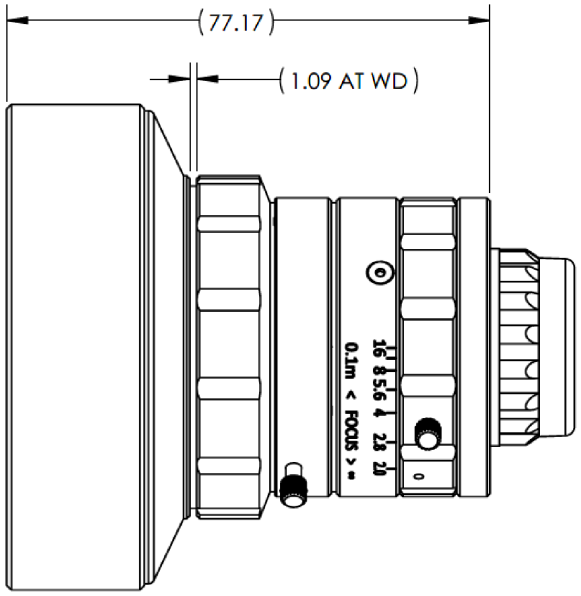


Jeff Harvey- EVP of Operations

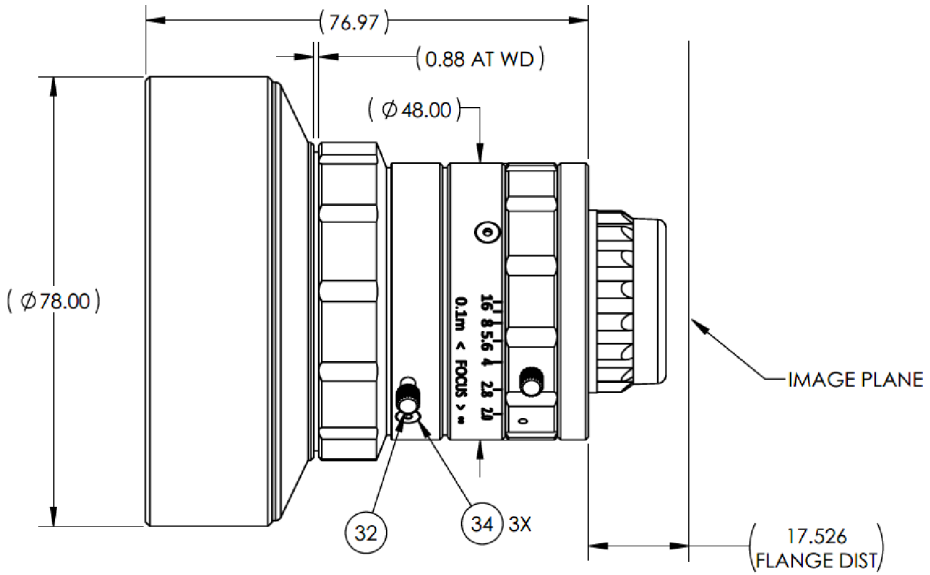
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INF WORKING DISTANCE



500mm WORKING DISTANCE



200mm WORKING DISTANCE

SPECIFICATIONS SUBJECT TO CHANGE WITHOUT NOTICE
DIMENSIONS ARE FOR REFERENCE ONLY

FOR INFORMATION ONLY:
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Edmund Optics®

THIRD ANGLE PROJECTION		TITLE	6.5mm FOCAL LENGTH, HP SERIES FIXED FOCAL LENGTH LENS
ALL DIMS IN	mm	DWG NO	86568
			SHEET 1 OF 1