

TECHSPEC® 16mm f/11, HPi Series Fixed Focal Length Lens

#33-819



16mm HPi Series Fixed Focal Length Lens

해당 제품은 간소화된 기계 설계가 특징이며 **TECHSPEC® HP** 시리즈 렌즈와 마찬가지로 고해상도 성능을 제공합니다. 간소화된 기계 설계로 비용과 무게는 줄이고 더 컴팩트한 크기를 구현할 수 있어 **OEM** 생산형 어플리케이션에 적합합니다. 다양한 고정 조리개 버전과 초점 조절 기능을 제공하므로 산업용 어플리케이션에 필요한 간편함과 유연성을 모두 겸비하고 있습니다. **OEM** 할인 정책의 경우 당사로 문의 바랍니다.

General

Type: Fixed Focal Length Lens

Physical & Mechanical Properties

Iris Option:	Fixed
Length (mm):	64.20
Maximum Diameter (mm):	48
Weight (g):	117
Maximum Rear Protrusion (mm):	0

Optical Properties

Horizontal Field of View, 1/2" Sensor:	49.4mm - 22.1°
Horizontal Field of View, 2/3" Sensor:	68.4mm - 30.1°
Horizontal Field of View, 1/3" Sensor:	36.9mm - 16.6°
Horizontal Field of View, 1" Sensor:	101.3mm - 43.2°
Maximum Image Circle (mm):	17.60
Numerical Aperture NA, Object Side:	0.0058
Horizontal Field of View @ Max Sensor Format:	127mm - 53°
Horizontal Field of View, 1.1" Sensor:	113.4mm - 47.6°
Number of Elements (Groups):	9 (7)
Horizontal Field of View, 1/1.8" Sensor:	55.7mm - 24.8°
Horizontal Field of View, 1/2.5" Sensor:	44.7mm - 20.0°
Focal Length FL (mm):	16.00
Primary Magnification PMAG:	0.131
Working Distance (mm):	100 - ∞
Aperture (f/#):	f/11
Coating:	λ/4 MgF ₂
Coating Specification:	λ/4 MgF ₂
Entrance Pupil Position (mm):	27.28
Horizontal Field of View, 1/4" Sensor:	27.6mm - 12.5°
Object Space Principal Plane (mm):	40.34
Image Space Principal Plane (mm):	4.08
Field of View at Max Sensor Format:	Horizontal: 112.4mm - 47.2° Vertical: 82.7mm - 35.9° Diagonal: 144.7mm - 58°
Maximum Distortion (%):	-3.76
Exit Pupil Position (mm):	-58.81
Optimized Working Distance (mm):	400 - 2000
Lens Wavelength Range:	VIS

Sensor

Optimized Sensor Format:	1"
Maximum Sensor Format:	1.1"

Threading & Mounting

Filter Thread:

M46.0 x 0.75 (Female)

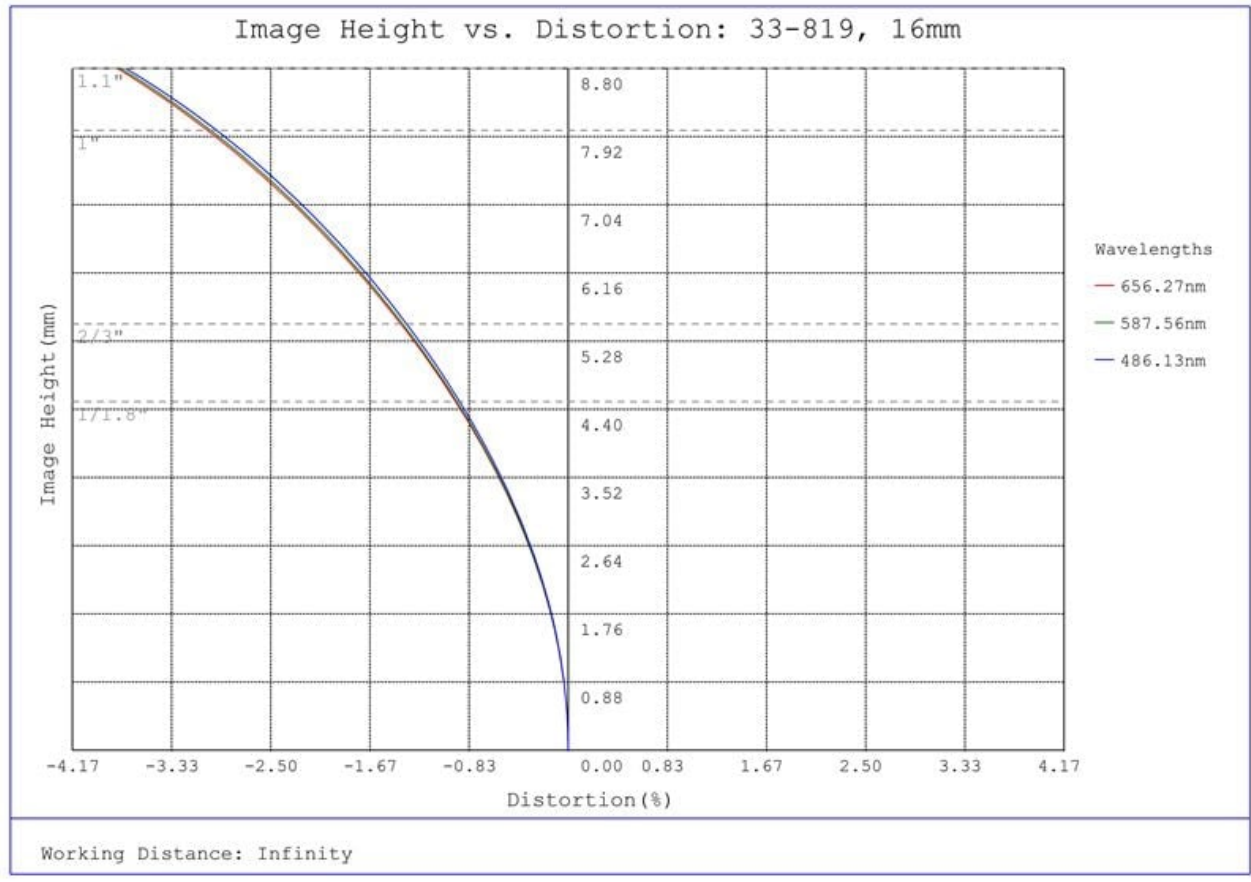
Mount:

C-Mount

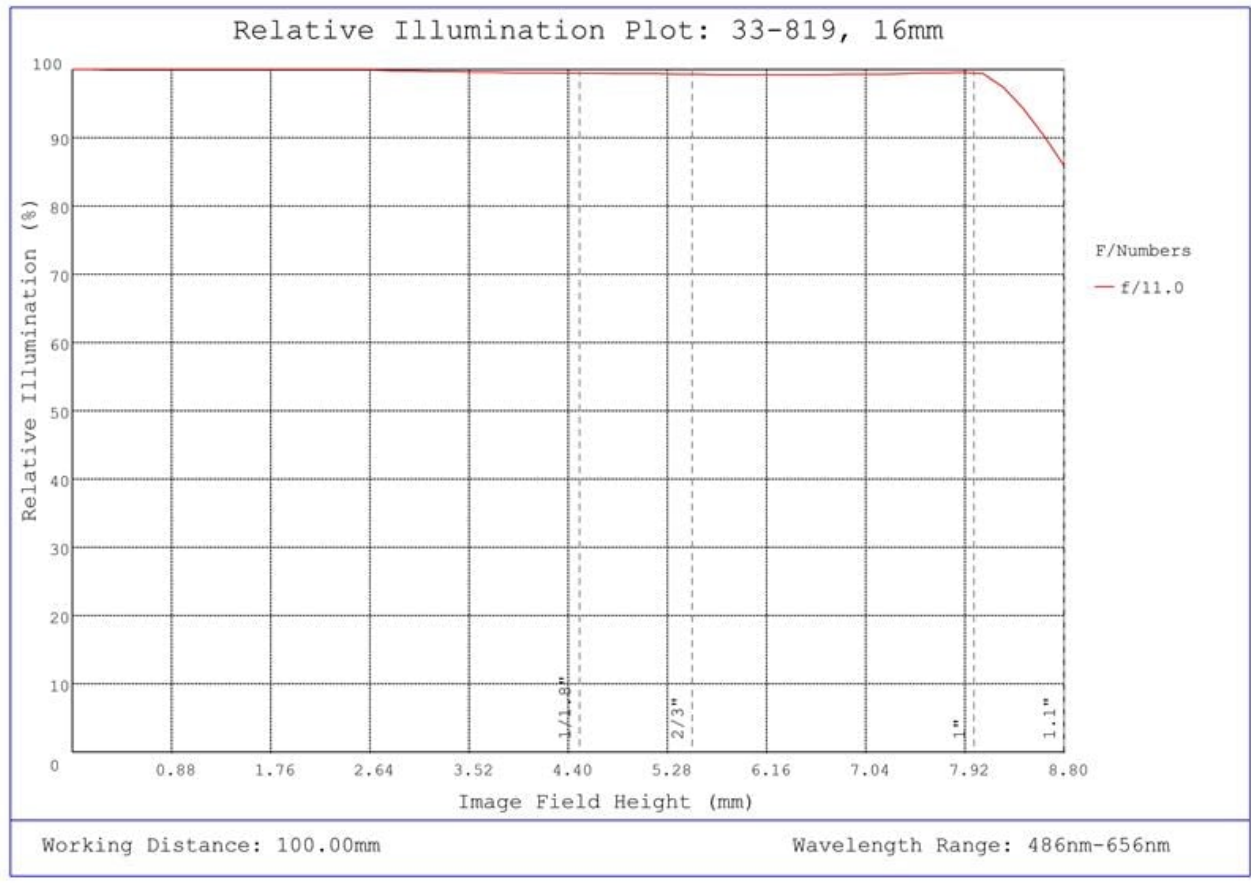
Environmental & Durability Factors

Storage Temperature (°C):

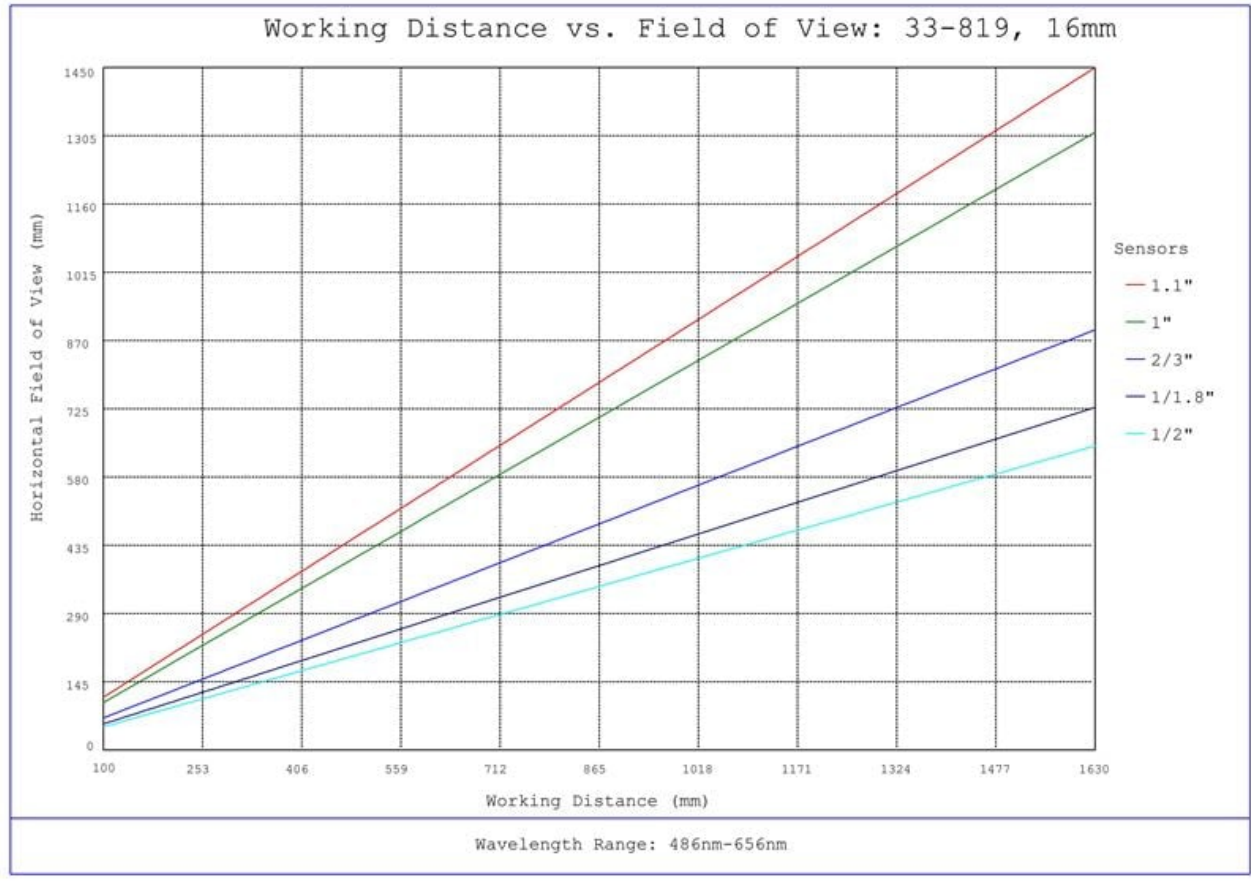
-20 to +60 For questions regarding operating temperature please
contact our support team



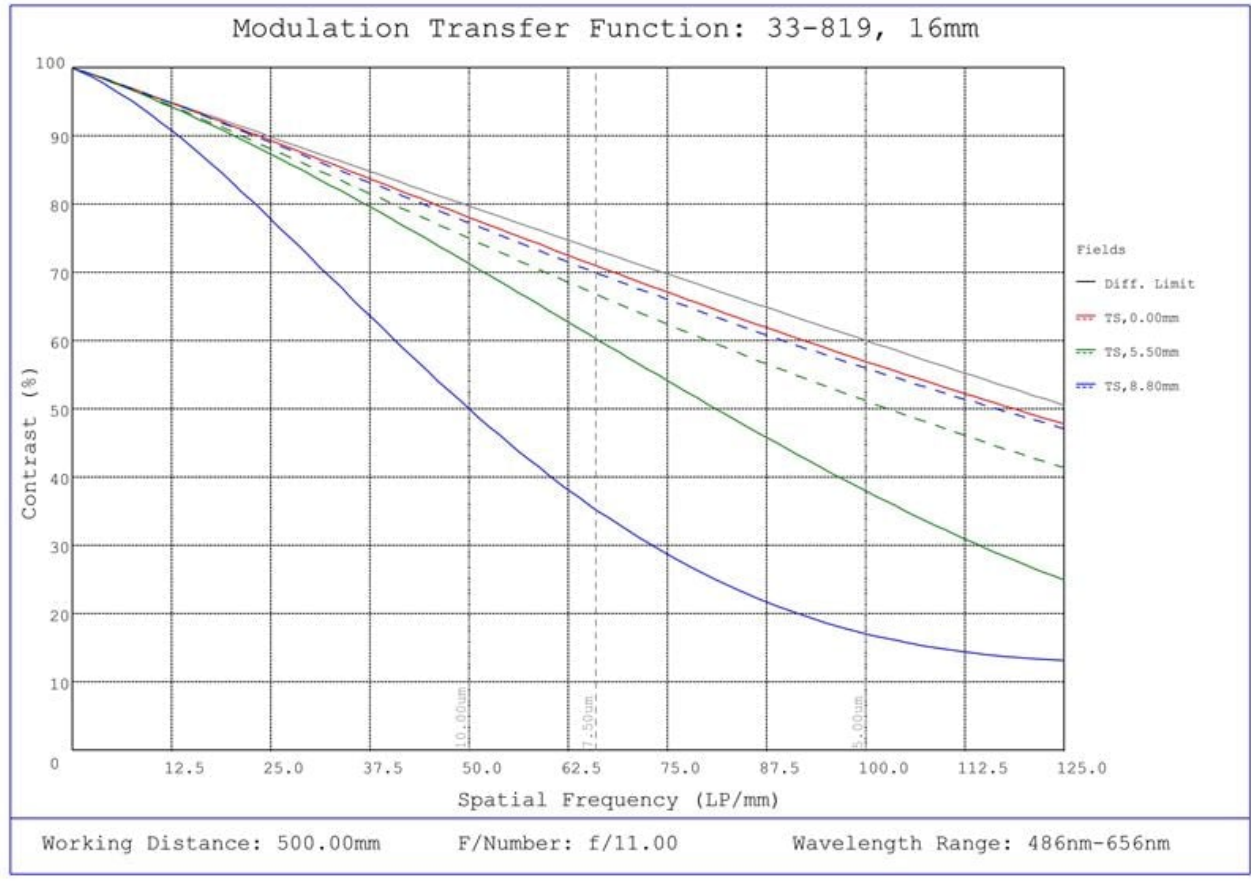
#33-819, 16mm f/11, HPI Series Fixed Focal Length Lens, Distortion Plot



#33-819, 16mm f/11, HPI Series Fixed Focal Length Lens, Relative Illumination Plot



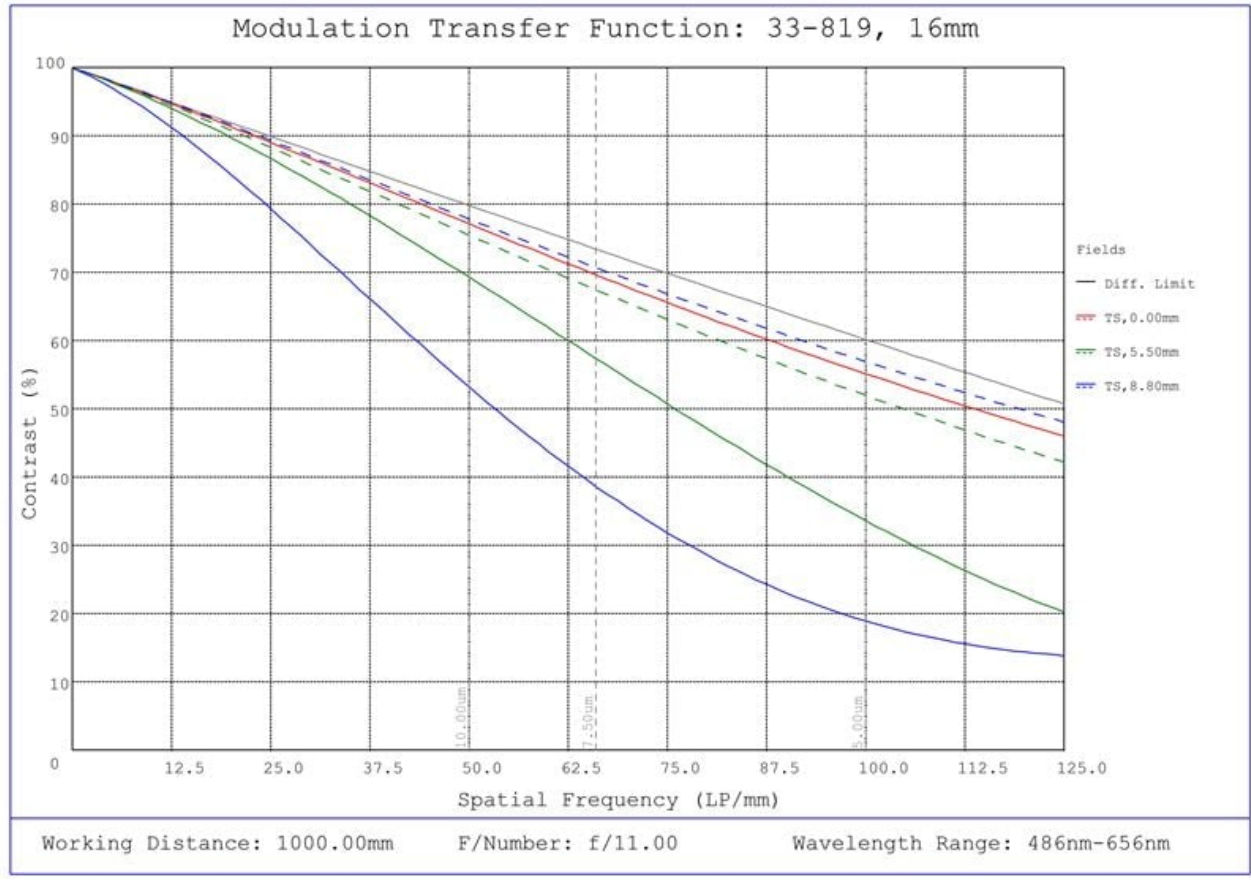
#33-819, 16mm f/11, HPI Series Fixed Focal Length Lens, Working Distance versus Field of View Plot



#33-819, 16mm f/11, HPI Series Fixed Focal Length Lens, Modulated Transfer Function (MTF) Plot, 500mm Working Distance, f11



#33-819, 16mm f/11, HPi Series Fixed Focal Length Lens, Depth of Field Plot, 500mm Working Distance, f11



#33-819, 16mm f/11, HPi Series Fixed Focal Length Lens, Modulated Transfer Function (MTF) Plot, 1000mm Working Distance, f11



#33-819, 16mm f/11, HPi Series Fixed Focal Length Lens, Depth of Field Plot, 1000mm Working Distance, f11



June 21, 2025

To Whom It May Concern,

This document certifies that the product stated below has been reviewed as requested by Edmund Optics:

재고 번호	제품설명
33-819	16mm f/11, HPi Series Fixed Focal Length Lens

This item is EU RoHS (2011/65/EU) compliant without the use of exemptions.

This certification means that:

- EO's suppliers have confirmed the material composition of this product.
- EO has implemented rigorous procedures to document this compliance.
- The information provided may, or may not, be based upon actual test data, or on information from our Vendors, Raw Material Suppliers or Subcontractors.



Jay Budd, Director of Corporate Compliance
June 21, 2025

Edmund Optics Inc. - 101 E Gloucester Pike, Barrington, NJ 08007 | 1-800-363-1992 | Compliance@edmundoptics.com

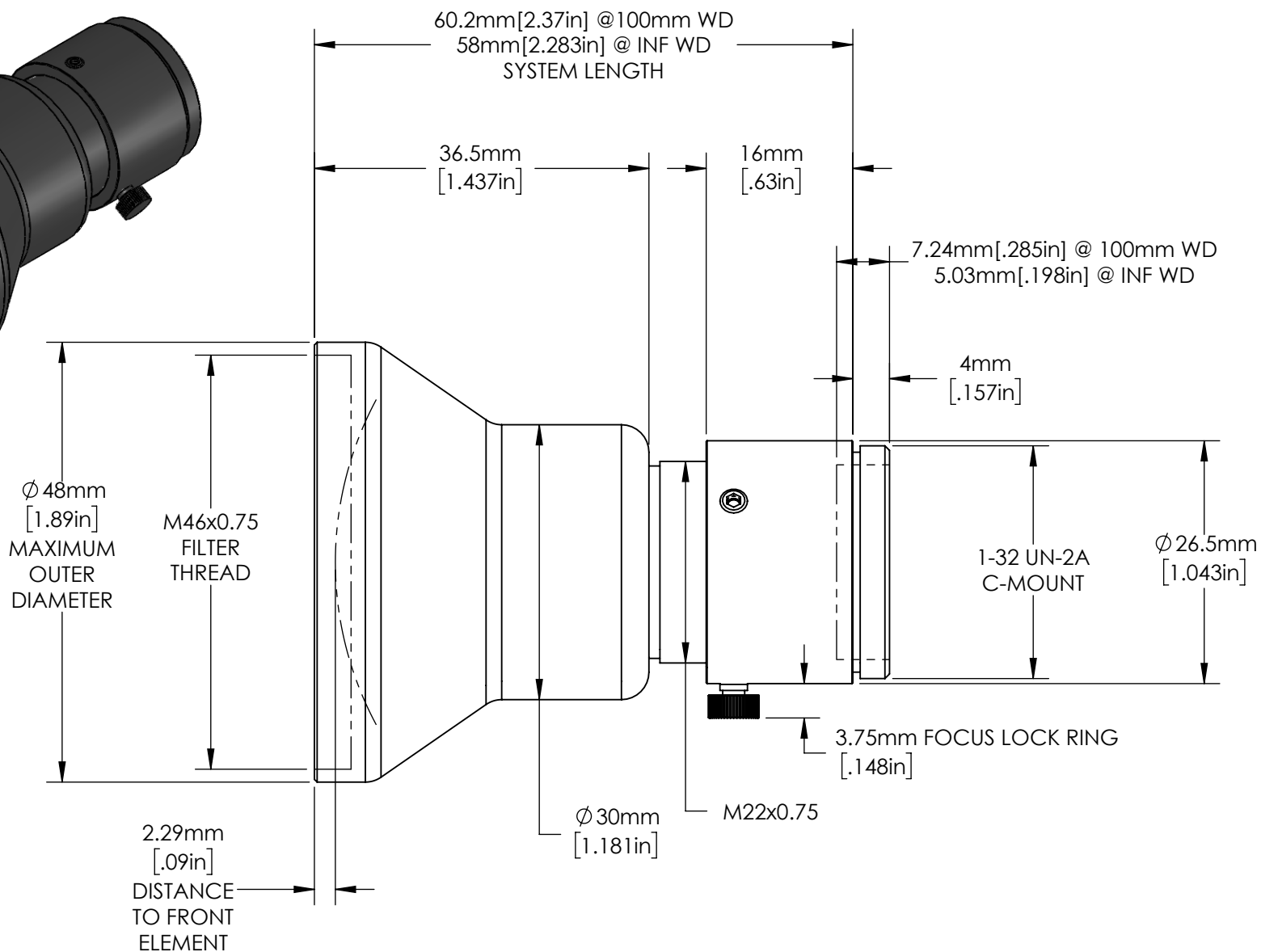
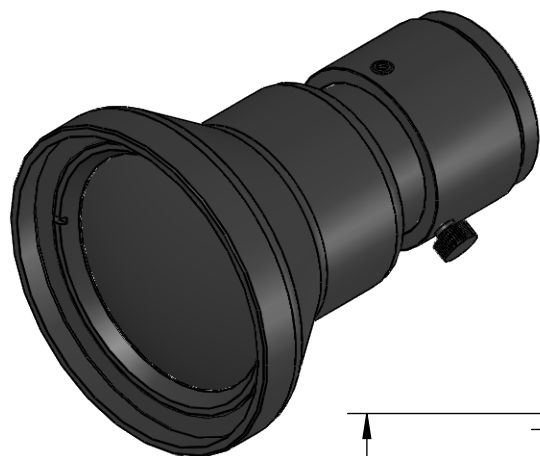
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Edmund Optics certifies that all articles included in this shipment are in compliance with the terms and conditions of this order. The company also certifies that the articles included in this shipment are in accordance to all agreed upon specifications 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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TITLE	16mm HPi Lens, f/11, 1"		
DWG NO	33819		SHEET 1 OF 1

