

TECHSPEC® 12mm f/8, 1000mm-∞ Primary WD, HRr Series Fixed Focal Length Lens

#36-860



12mm, 1000-∞ Primary WD, HPr Series Fixed Focal Length Lens

해당 제품은 설계 시 우수한 머신 비전 성능을 고려하였으며 픽셀 이동을 줄이기 위해 모든 렌즈 요소를 제자리에 고정 처리하는 안정성 등급의 강건설계를 적용했습니다. 최적화된 여러 작동 거리와 호환되도록 초점 거리마다 다양한 옵션이 제공됩니다. 또한, 스테인리스 스틸 고정 C-마운트 클램프와 간소화된 포커싱으로 견고함을 더했습니다. 해당 제품은 측정 및 계측, 3D 스테레오 비전, 로봇 공학, 감지, 자율주행 자동차, 객체 추적 등 교정 이미징 시스템에 적합합니다. OEM 할인 정책의 경우 당사로 문의 바랍니다.

General

Type: Fixed Focal Length Lens

Physical & Mechanical Properties

Iris Option:	Fixed
Length (mm):	39.20
Maximum Diameter (mm):	33
Weight (g):	77
Maximum Rear Protrusion (mm):	1.63

Optical Properties

Horizontal Field of View, 1/2" Sensor:	64.8mm - 30.9°
Horizontal Field of View, 2/3" Sensor:	90.2mm - 42.0°
Horizontal Field of View, 1/3" Sensor:	48.3mm - 23.3°
Maximum Image Circle (mm):	11.00
Numerical Aperture NA, Object Side:	0.0061
Horizontal Field of View @ Max Sensor Format:	90.2mm - 42.0°
Number of Elements (Groups):	10 (6)
Horizontal Field of View, 1/1.8" Sensor:	73.1mm - 34.7°
Horizontal Field of View, 1/2.5" Sensor:	58.6mm - 28.1°
Focal Length FL (mm):	12.00
Primary Magnification PMAG:	0.1
Working Distance (mm):	100 - ∞
Aperture (f/#):	f/8
Coating:	425 - 675nm BBAR
Coating Specification:	425 - 675nm BBAR
Entrance Pupil Position (mm):	17.6
Horizontal Field of View, 1/4" Sensor:	36.1mm - 17.5°
Object Space Principal Plane (mm):	26.32
Image Space Principal Plane (mm):	2.81
Field of View at Max Sensor Format:	Horizontal: 90.1mm - 42° Vertical: 66.8mm - 31.9° Diagonal: 114.2mm - 51.8°
Maximum Distortion (%):	-3.28
Exit Pupil Position (mm):	-31.25
Optimized Working Distance (mm):	1000 - ∞
Lens Wavelength Range:	VIS

Sensor

Maximum Sensor Format: 2/3"

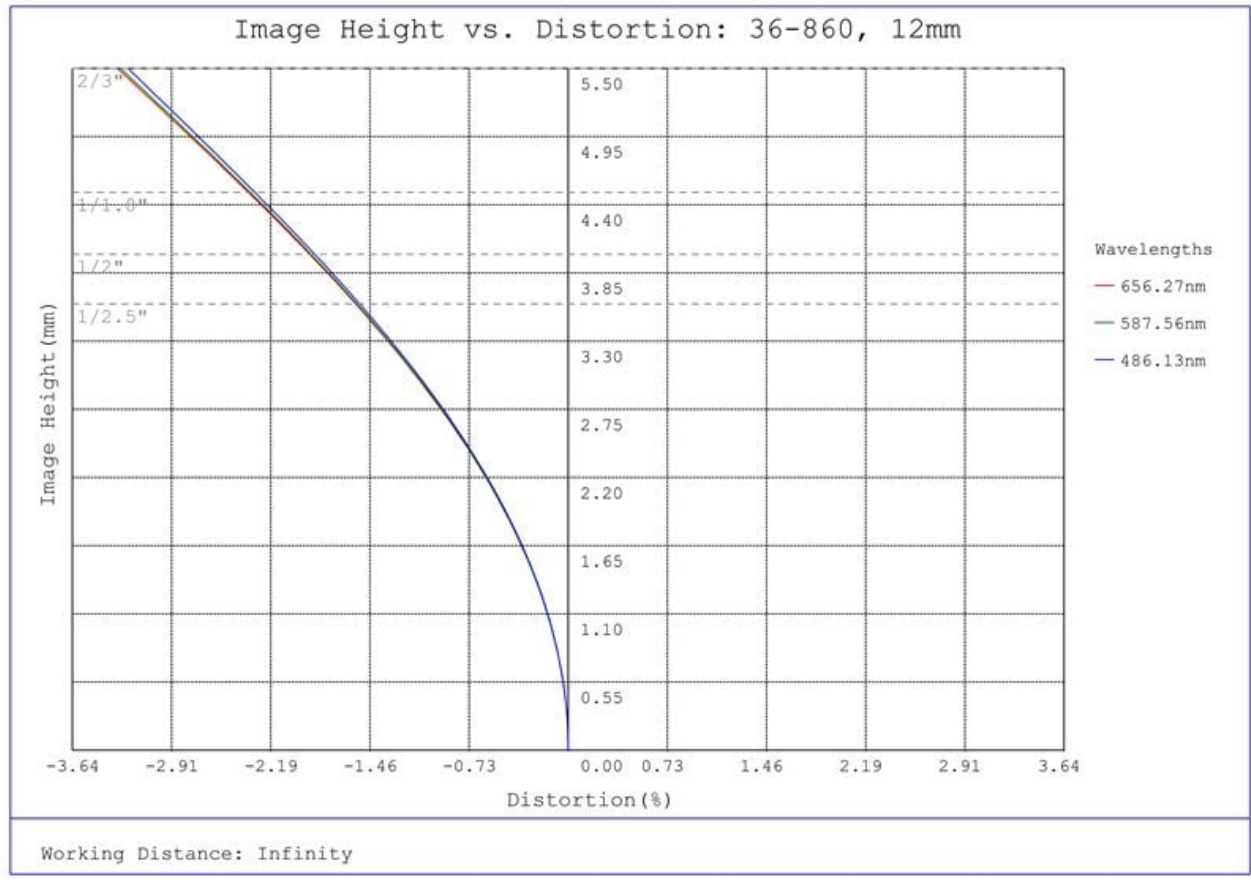
Threading & Mounting

Filter Thread:	M30.5 x 0.50 (Female)
Mount:	C-Mount

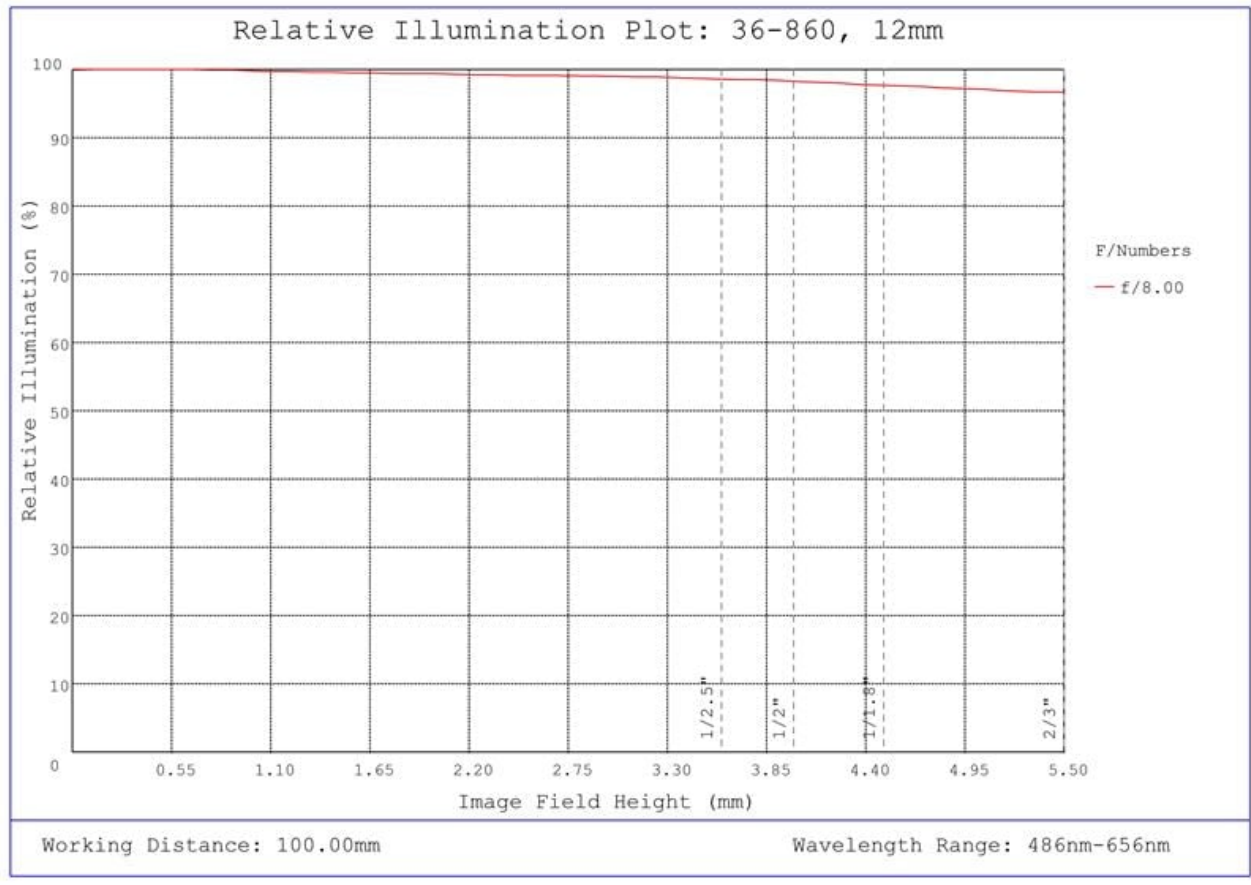
Environmental & Durability Factors

Storage Temperature (°C):

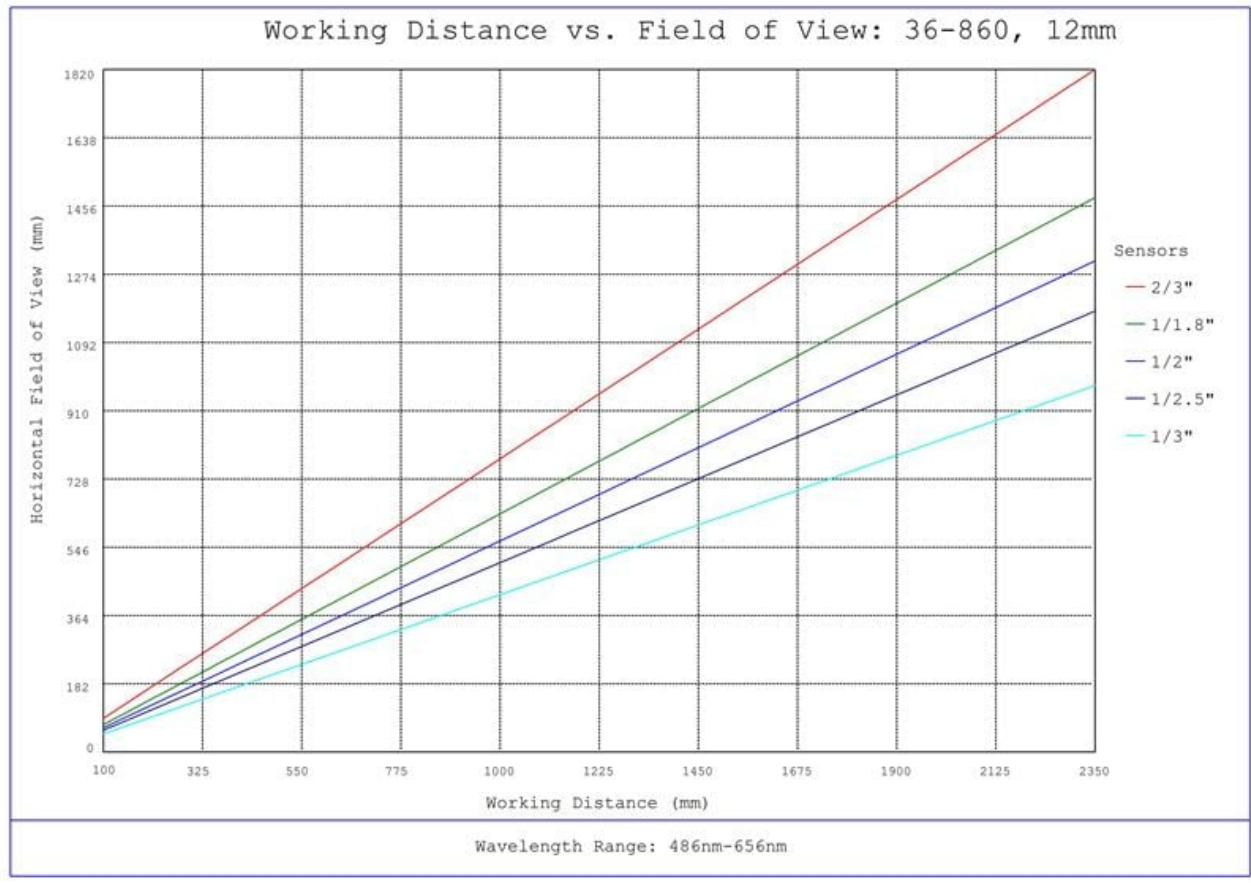
-20 to +60 For questions regarding operating temperature please
contact our support team



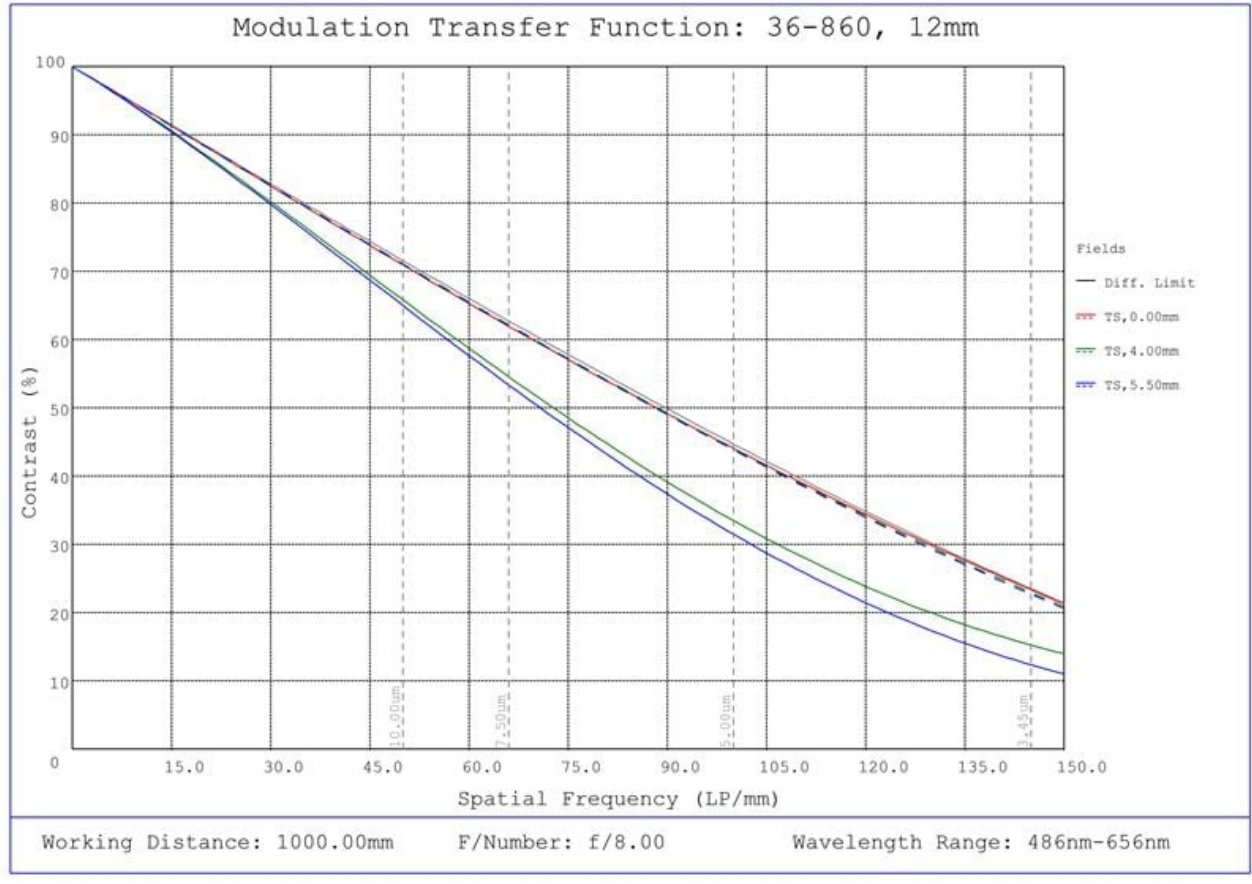
#36-860, 12mm f/8, 1000mm-∞ Primary WD, HRr Series Fixed Focal Length Lens, Distortion Plot



#36-860, 12mm f/8, 1000mm-∞ Primary WD, HRr Series Fixed Focal Length Lens, Relative Illumination Plot



#36-860, 12mm f/8, 1000mm-∞ Primary WD, HRr Series Fixed Focal Length Lens, Working Distance versus Field of View Plot



#36-860, 12mm f/8, 1000mm-∞ Primary WD, HRr Series Fixed Focal Length Lens, Modulated Transfer Function (MTF) Plot, 1000mm Working Distance, f8



#36-860, 12mm f/8, 1000mm-∞ Primary WD, HRr Series Fixed Focal Length Lens, Depth of Field Plot, 1000mm Working Distance, f8



#36-860, 12mm f/8, 1000mm-∞ Primary WD, HRr Series Fixed Focal Length Lens, Modulated Transfer Function (MTF) Plot, 2600mm Working Distance, f8



#36-860, 12mm f/8, 1000mm-∞ Primary WD, HRr Series Fixed Focal Length Lens, Depth of Field Plot, 2600mm Working Distance, f8



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
36-860	12mm f/8, 1000mm-∞ Primary WD, HRr Series Fixed Focal Length Lens

This item is EU RoHS (2015/863/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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This item does not contain any of the substances listed on the Reach SVHC list as of 25 June 2020 in quantities exceeding 0.1% weight by weight.

Please note the following:

- Entry 11 of Annex V of the REACH regulation EC 1907/2006 as amended by regulation 987/2008, exempts "non-hazardous" glass components from registration.
- Items considered to be packing materials and which do not form part of, or are not required for the operation of, the product, are not considered to be within scope of this declaration.
- EO does not routinely analyze products for substances not purposely added or specified within the design specifications, drawings and assembly procedures.

This certification means that:

- EO's suppliers have confirmed the material composition of this product.
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재고 번호

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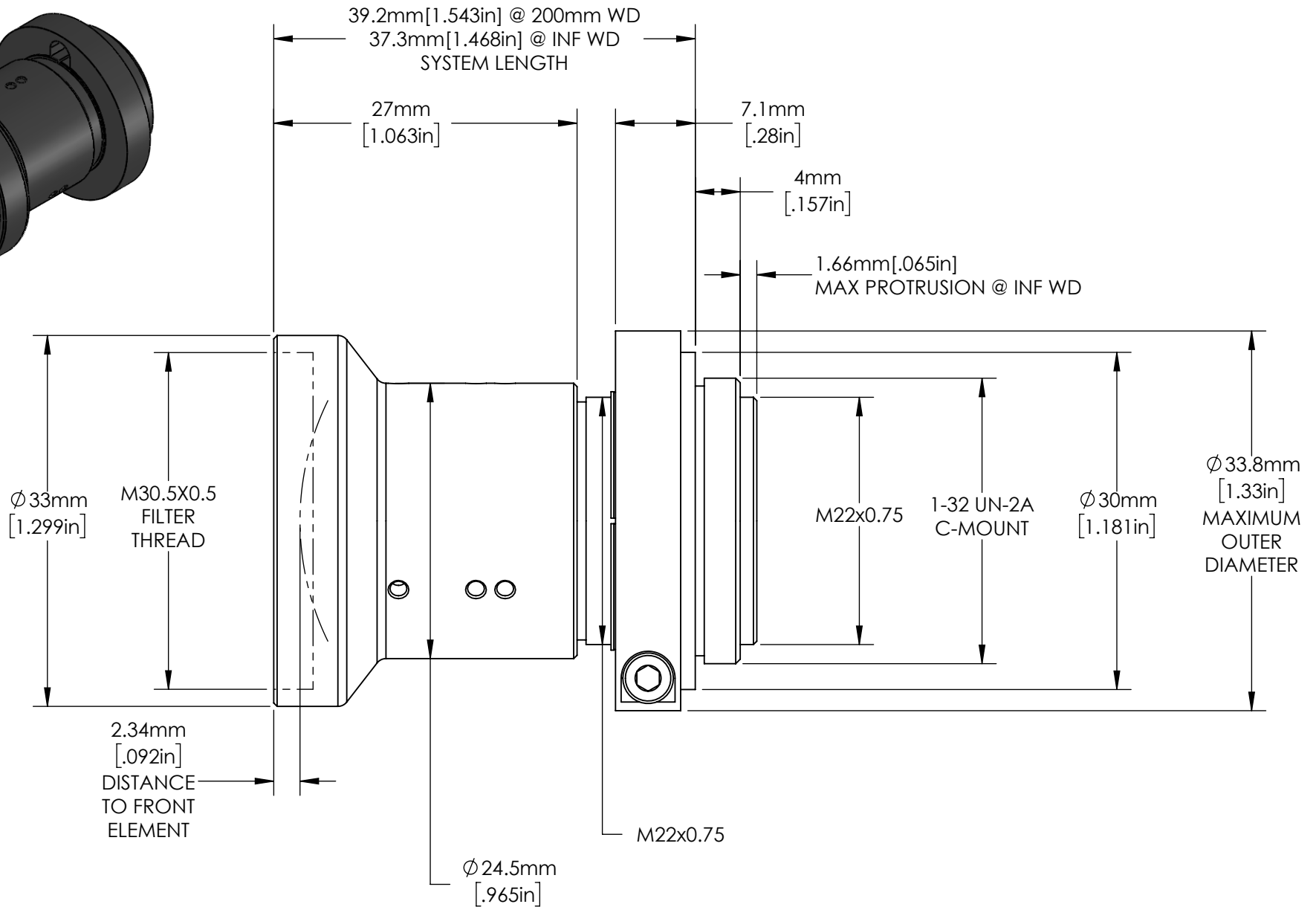
제품설명

12mm f/8, 1000mm-∞ Primary WD, HRr 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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DIMENSIONS ARE FOR REFERENCE ONLY.



Edmund Optics

TITLE

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Fixed Focal Length Lens

DWG NO

36860

SHEET
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