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TECHSPEC®

150mm, f/4 Athermal Lens



Stock **#16-852**

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1

+

A\$2,509⁰⁰

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SPECIFICATIONS

General

Athermal Series

Series:

Fixed Focal Length Lens - Athermal

Type:

Passive Athermalization and Mechanical

Imaging Lens Type:

Ruggization	
Physical & Mechanical Properties	
Fixed	Iris Option:
143.30	Length (mm):
60.0	Maximum Diameter (mm):
60	Outer Diameter (mm):
Optical Properties	
Field of View at Max Sensor Format: Horizontal: 5.36° Vertical: 4.03° Diagonal: 6.68°	
5.36°	Horizontal Field of View, 1.1" Sensor:
4.87°	Horizontal Field of View, 1" Sensor:
3.36°	Horizontal Field of View, 2/3" Sensor:
2.75°	Horizontal Field of View, 1/1.8" Sensor:
2.44°	Horizontal Field of View, 1/2" Sensor:
19.30	Maximum Image Circle (mm):
0.005	Numerical Aperture NA, Object Side:
7 (3)	Number of Elements (Groups):
150.00	Focal Length FL (mm):
0.000X - 0.040X	Primary Magnification PMAG:
4000 - ∞	Working Distance (mm):
f/4	Aperture (f/#):
15.323	Entrance Pupil Position (mm):
-93.76	Object Space Principal Plane (mm):
-42.27	Image Space Principal Plane (mm):
0.66	Maximum Distortion (%):
-37.311	Exit Pupil Position (mm):
VS	Lens Wavelength Range:
Sensor	
1.2"	Maximum Sensor Format:
2.74	Pixel Size (μm):
Threading & Mounting	
M55 x 0.75 (Female)	Filter Thread:
C-Mbunt	Mount:
Environmental & Durability Factors	
-10 to +50	Operating Temperature (°C):
Athermal	Type of Ruggedization:
Regulatory Compliance	
View	Certificate of Conformance:

PRODUCT DETAILS

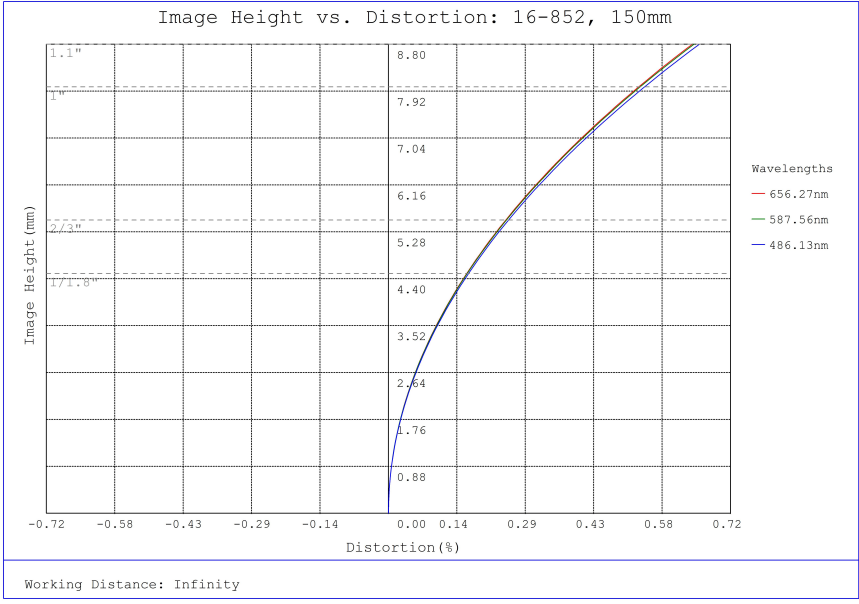
- Designed to Maintain High Resolution Over a Wide Temperature Range
- Ruggedized for Shock and Vibration Environments
- Large Sensor Coverage up to 1.1"
- Optothermal Stability from [Passive Athermalization](#)
- [2022 Silver VSD Innovators Award Winner](#) and 2022 Inspect Award Winner

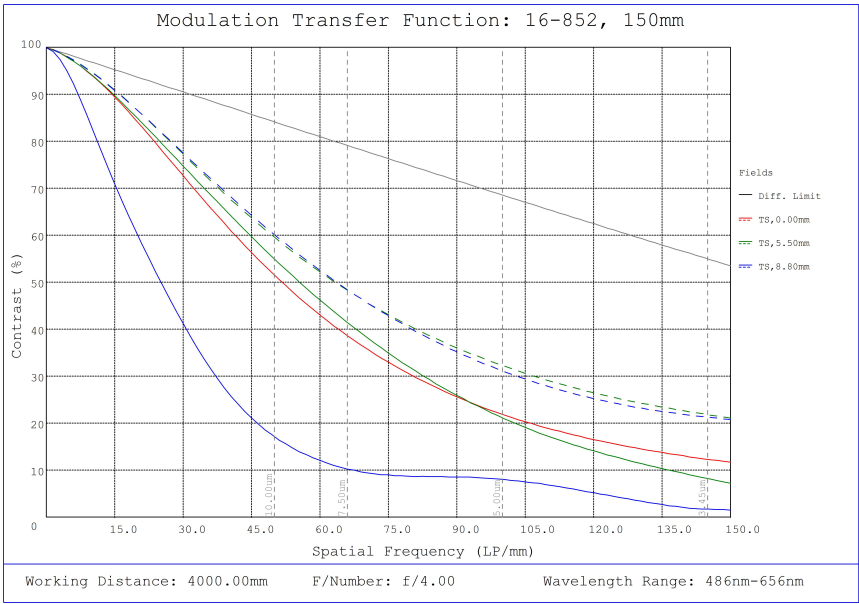
TECHSPEC® Athermal Imaging Lenses provide optothermal stability in a ruggedized lens housing, making them ideal for harsh environments. These lenses utilize [passive athermalization](#) to mitigate the effects of thermal defocus in applications that are prone to temperature fluctuations. Additionally, these lenses are ruggedized to protect against lens damage and minimize pixel shift after shock and vibration. Along with being ruggedized to protect against lens damage and minimize pixel shift after shock and vibration, these lenses are thermally compensated and best used with camera mounts made from aluminum. TECHSPEC® Athermal Imaging Lenses feature C-Mount threading and full coverage of sensors up to 1.1".

These lenses won the [2022 Silver VSD Innovators Award](#) and the 2022 Inspect Award.

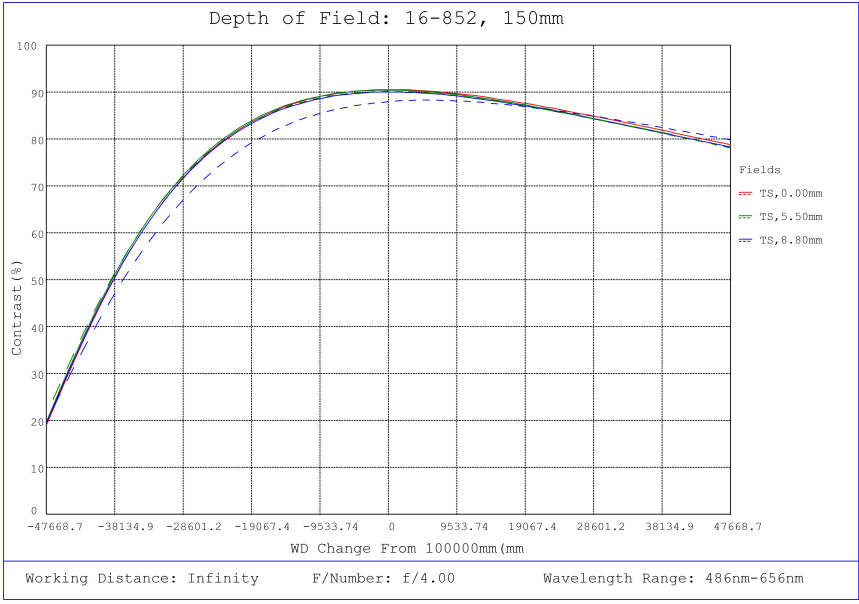
Note: Passive Athermalization is introduced in the application note [here](#).

TECHNICAL INFORMATION

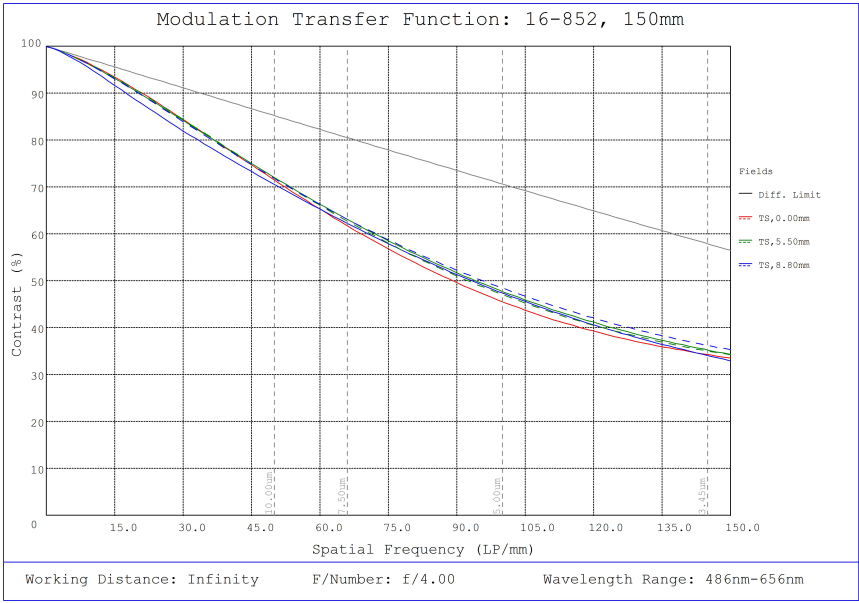




#16-852, 150mm, f/4 Athermal Lens, Modulated Transfer Function (MTF) Plot, 4000mm Working Distance, f4



#16-852, 150mm, f/4 Athermal Lens, Depth of Field Plot, 100000mm Working Distance, f4



#16-852, 150mm, f/4 Athermal Lens, Modulated Transfer Function (MTF) Plot, Working Distance: Infinity, f4

COMPATIBLE CAMERAS