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TECHSPEC®

35mm DG Series Fixed Focal Length Lens



35mm Focal Length, #54-689

Stock

#54-689

CONTACT US

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1

+

A\$885^{.00}

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Volume Pricing	
Qty 1-49	A\$885.00 each
Qty 50+	A\$698.00 each
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General

DG Series

Series:

Fixed Focal Length Lens

Type:

Traditional Double-Gauss Style Lens

Imaging Lens Type:

Physical & Mechanical Properties

Variable

Iris Option:

50.10	Length (mm):
53	Maximum Diameter (mm):
53	Outer Diameter (mm):
142	Weight (g):
4	Maximum Rear Protrusion (mm):

Optical Properties	
Horizontal Field of View @ Max Sensor Format: 99.2mm - 23.0°	
Field of View at Max Sensor Format: Horizontal: 97.5mm - 22.9° Vertical: 73.1mm - 17.3° Diagonal: 121.9mm - 28.3°	
Horizontal Field of View, 1.1" Sensor: 99.2mm - 23.0°	
Horizontal Field of View, 1" Sensor: 89.4mm - 20.8°	
Horizontal Field of View, 2/3" Sensor: 61.5mm - 14.4°	
Horizontal Field of View, 1/1.8" Sensor: 50.3mm - 11.8°	
Horizontal Field of View, 1/2" Sensor: 44.7mm - 10.5°	
Horizontal Field of View, 1/2.5" Sensor: 40.5mm - 9.5°	
Horizontal Field of View, 1/3" Sensor: 33.5mm - 7.9°	
Horizontal Field of View, 1/4" Sensor: 25.1mm - 5.9°	
17.60	Maximum Image Circle (mm):
0.0158	Numerical Aperture NA, Object Side:
6 (4)	Number of Elements (Groups):
35.00	Focal Length FL (mm):
240 - ∞	Working Distance (mm):
f/4 - Closed	Aperture (f/#):
λ/4 MgF ₂	Coating:
λ/4 MgF ₂	Coating Specification:
19.23	Entrance Pupil Position (mm):
18.86	Object Space Principal Plane (mm):
-12.64	Image Space Principal Plane (mm):
0.52	Maximum Distortion (%):
-12.27	Exit Pupil Position (mm):
VS	Lens Wavelength Range:

Sensor	
1.1"	Maximum Sensor Format:
2.74	Pixel Size (μm):

Threading & Mounting	
M37.0 x0.75 (Female)	Filter Thread:
C-Mount	Mount:

Environmental & Durability Factors	
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Storage Temperature (°C):	
-20 to +60	
Regulatory Compliance	
Compliant	RoHS 2015:
	REACH 201:
Certificate of Conformance:	
View	

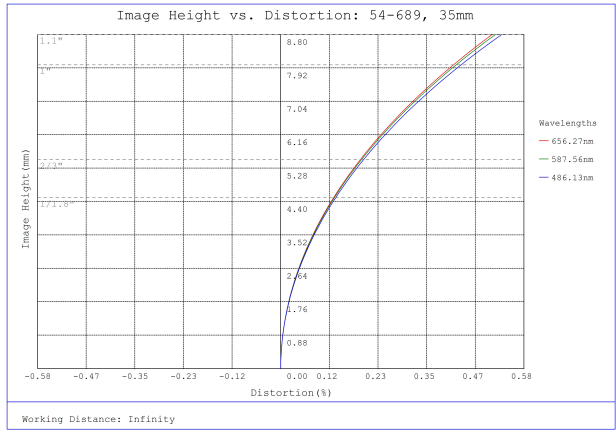
Product Details

- Up to 4/3", C-Mount Lens
- Up to 9 MegaPixels, 2.8µm Pixel Size Sensors
- Double Gauss (DG) Lens with low distortion and high performance
- 18mm to 75mm Focal Length

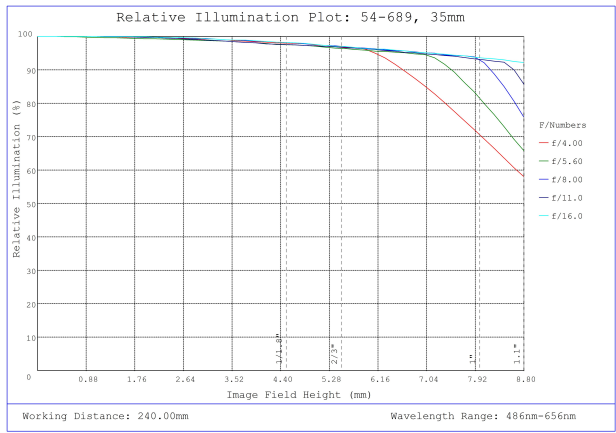
TECHSPEC® DG Series Fixed Focal Length Lenses utilize a Double Gauss design to provide high-performance, low distortion, compact size, and exceptional value, while exceeding the performance of typically available fixed focal length lenses. These lenses feature a mechanical design that allows the focusing movement to be motorized by the user, yields image resolution greater than 100 lp/mm, and have a standard C-Mount. For most applications, the camera-lens combination can be attached to workstations using the 1/4-20 mount provided on the camera. TECHSPEC® DG Series Fixed Focal Length Lenses include focus ring, manual iris, and set screws to facilitate a low profile integration in machine vision applications. Typical applications for the DG Series lenses include machine vision, assembly-line integration, and measurement and image analysis.

Note: [Industrial Boom Stands](#) are recommended for building vibration-free workstations.

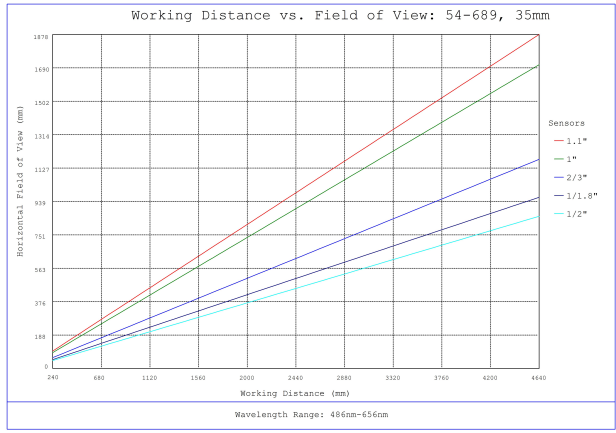
Technical Information



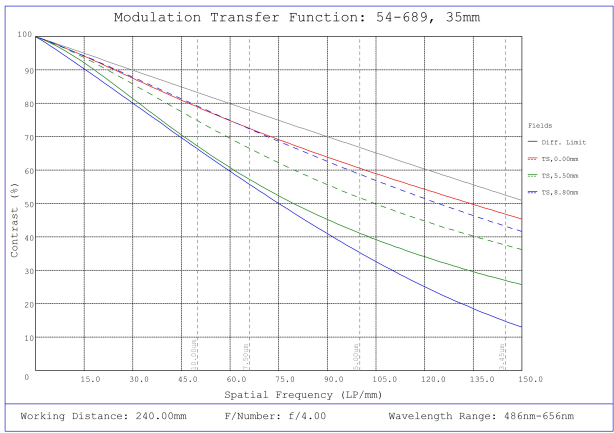
#54-689, 35mm DG Series Fixed Focal Length Lens, Distortion Plot



#54-689, 35mm DG Series Fixed Focal Length Lens, Relative Illumination Plot



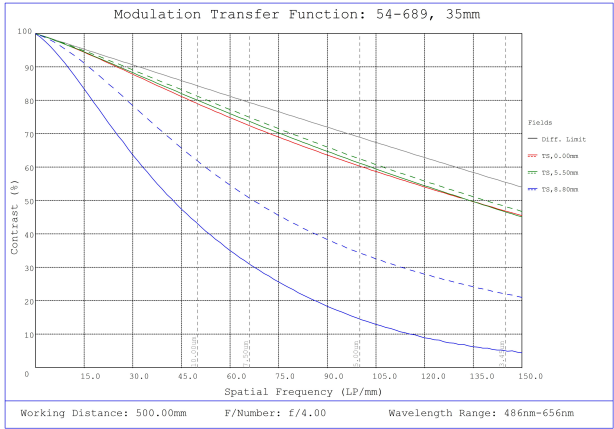
#54-689, 35mm DG Series Fixed Focal Length Lens, Working Distance versus Field of View Plot



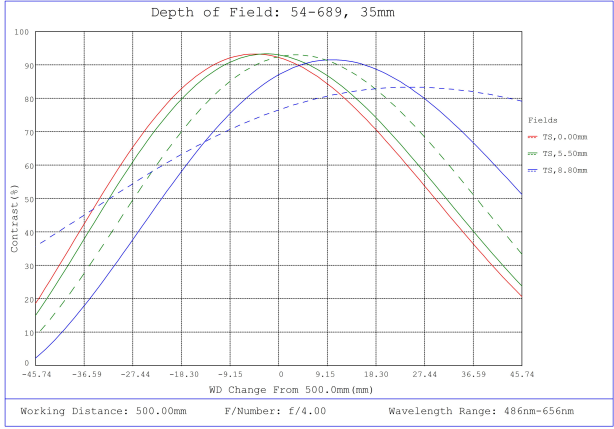
#54-689, 35mm DG Series Fixed Focal Length Lens, Modulated Transfer Function (MTF) Plot, 240mm Working Distance, f4



#54-689, 35mm DG Series Fixed Focal Length Lens, Depth of Field Plot, 240mm Working Distance, f4



#54-689, 35mm DG Series Fixed Focal Length Lens, Modulated Transfer Function (MTF) Plot, 500mm Working Distance, f4



#54-689, 35mm DG Series Fixed Focal Length Lens, Depth of Field Plot, 500mm Working Distance, f4

Dimensions							
FL (mm)	A (mm)	B (mm)	C (mm)	D (mm)	E (mm)	F (mm)	Filter Thread (Dia. x Pitch)
18	48.0	32.3	4.6	40.0	-	2.5	M30.5 x 0.5
25	39.0	40.0	5.8	34.7	30.7	2.2	M30.5 x 0.5
35	45.0	50.1	11.6	40.0	42.1	0	M37.0 x 0.75
50	47.5	69.0	10.6	40.0	40.8	0	M39.0 x 0.5
75	54.0	116.2	19.2	46.0	67.7	0	M49.0 x 0.75

Compatible Cameras