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TECHSPEC®

35mm DG Series Fixed Focal Length Lens



35mm Focal Length, #54-689

Stock **#54-689** [CONTACT US](#)

-

1

+

£488^{.00}

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Volume Pricing	
Qty 1-49	£488.00 each
Qty 50+	£385.00 each
Need More?	Request Quote

Prices shown are exclusive of VAT/local taxes

Product Downloads

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°	
Maximum Image Circle (mm): 17.60	
Numerical Aperture NA, Object Side: 0.0158	
Number of Elements (Groups): 6 (4)	
Focal Length FL (mm): 35.00	
Working Distance (mm): 240 - ∞	
Aperture (f/#): f/4 - Closed	
Coating: λ/4 MgF ₂	
Coating Specification: λ/4 MgF ₂	
Entrance Pupil Position (mm): 19.23	
Object Space Principal Plane (mm): 18.86	
Image Space Principal Plane (mm): -12.64	
Maximum Distortion (%): 0.52	
Exit Pupil Position (mm): -12.27	
Lens Wavelength Range: VIS	

Sensor

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

Threading & Mounting

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

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

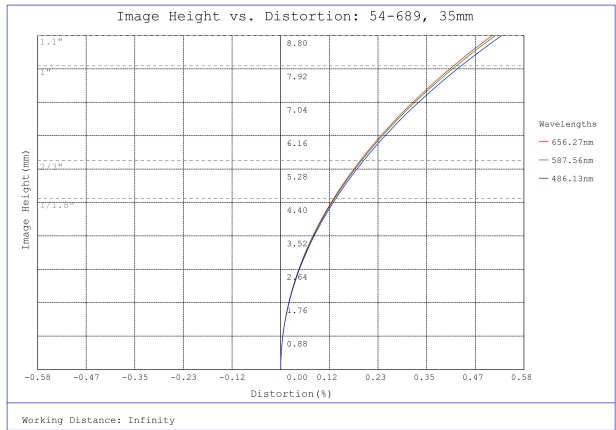
Product Details

- 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

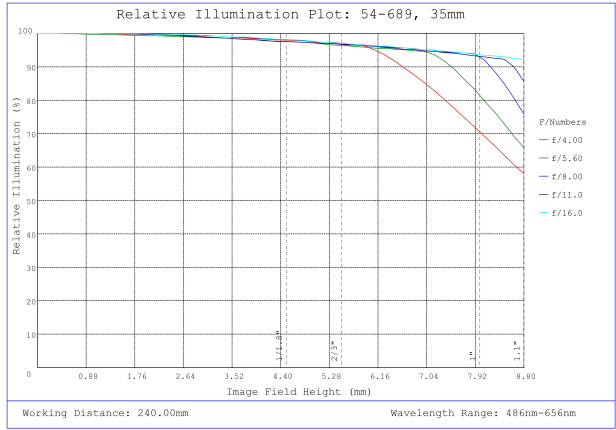
TECHSPEC® DG Series Fixed Focal Length Lenses utilize a Double Gauss design to provide high-performance, low distortion, compact size, and exceptional value, while exceeding the performance of typically available fixed focal length lenses. These lenses feature a mechanical design that allows the focusing 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.

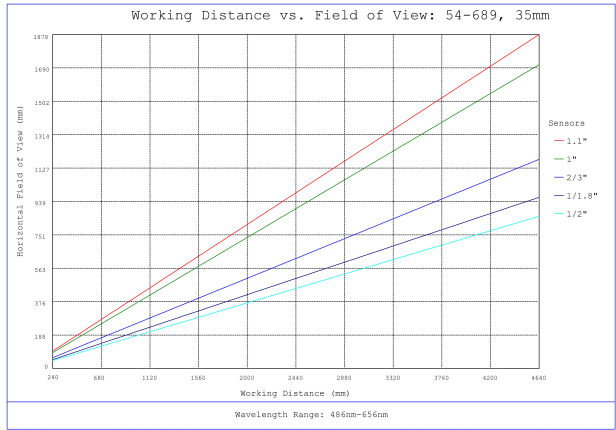
Technical Information



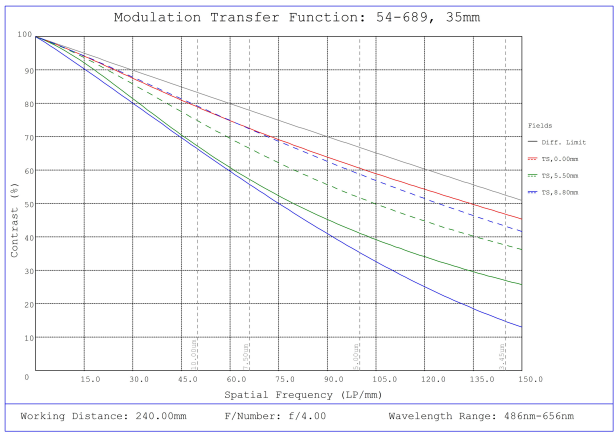
#54-689, 35mm DG Series Fixed Focal Length Lens, Distortion Plot



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



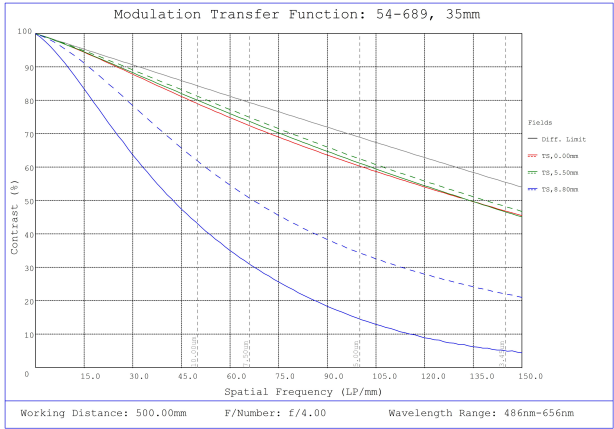
#54-689, 35mm DG Series Fixed Focal Length Lens, Working Distance versus Field of View Plot



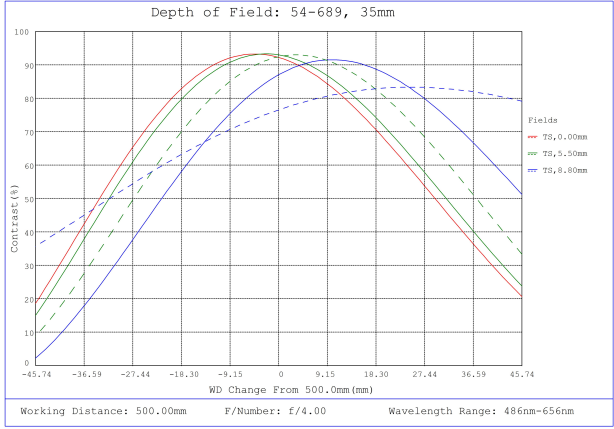
#54-689, 35mm DG Series Fixed Focal Length Lens, Modulated Transfer Function (MTF) Plot, 240mm Working Distance, f4



#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