

30° Diffusing Angle 25mm Dia., Fused Silica Holographic Diffuser



UV Fused Silica Holographic Diffusers

Stock #48-510 **1 In Stock**

1

£399^{.20}

ADD TO CART

Volume Pricing	
Qty 1+	£399.20 each
Need More?	Request Quote

Prices shown are exclusive of VAT/local taxes

Product Downloads	
STEP:step	Curve:pdf
PDF Drawing:pdf	IGES:igs
eDrawing:eprt	
EO Spec Sheet	Download All

General

Type: Holographic Diffuser

Physical & Mechanical Properties

Clear Aperture CA (mm): 21.6 ±0.1

Diameter (mm): 25.00 ±0.1

Construction: Mounted

Optical Properties

Angle Tolerance (°): ±3

Diffusing Angle (°): 30 (FWHM)

Substrate: [Fused Silica](#) (Corning 7980)

Transmission (%): Typical: 90

Wavelength Range (nm): 400 - 700

Threading & Mounting

Mount Thickness (mm): 5.00 +0.00/-0.35

Environmental & Durability Factors

Operating Temperature (°C): -40 to +170

Regulatory Compliance

RoHS 2015: [Compliant](#)

Certificate of Conformance: [View](#)

Reach 247: [Compliant](#)

- Diffusing Angles Ranging from 0.5 - 50°
- Fused Silica Substrate Ideal for High Temperatures
- Homogenous Light Distribution
- **Standard Holographic Diffusers** Also Available

UV Fused Silica Holographic Diffusers are used to control the diffuse area of illumination and increase transmission efficiency to greater than 90% from filament lamps, LEDs, arc lamps, and other sources. These UV Fused Silica Holographic Diffusers use a fused silica substrate enabling their use at higher operating temperature than **polycarbonate holographic diffusers** and offer controlled, homogenous light distribution. It is important to note that diffusing angles are given for a collimated input beam and angular divergence will vary for different incidence angles.

Unlike many holographic elements, these specific fused silica components transmit light in the UV, visible, and near-infrared. Zero order, or a specular component, of transmitted light is less than 1% for visible wavelengths. Diffusers with wider diffusing angles (10 degree FWHM or wider) can also be used in an extended range of 200-1500nm, but those with lower diffusing angles are only recommended for use between 400-700nm.

Note: Matte surface should face the light source. To clean holographic diffusers, dampen a lint free cloth wipe with methanol and gently wipe the entire diffuser surface in a gentle, circular pattern. Immediately and carefully blow off the clean diffuser area with dry compressed air. Caution: cleaning may cause a change in the optical performance of the diffuser.

Technical Information

Frequently Purchased Together



#48-507 - 15° Diffusing Angle
25mm Dia., Fused Silica
Holographic Diffuser
£399.20



#48-508 - 20° Diffusing Angle
25mm Dia., Fused Silica
Holographic Diffuser
£399.20



































#49-159 - 50 x 50mm UV
Fused Silica Ground Glass
Optical Diffuser
£92.00





















#63-224 - 12.5mm Diameter
UV Fused Silica Ground Glass
Optical Diffuser
£46.40

Compatible Mounts

	Title	Type	Compare	Stock Number	Price	Buy
	 25.0/25.4mm Optic Dia., SM1 Thin Mount, M4	Fixed		#13-787	£16.80 Request Quote	9 In Stock <input type="text" value="1"/>
	 25.0/25.4mm Optic Dia., SM1 Thin Mount, 8-32	Fixed		#13-788	£16.80 Request Quote	20+ In Stock <input type="text" value="1"/>
	 25.0mm Optic Dia., Optic Mount	Fixed		#64-560	£26.20 Request Quote	CONTACT US <input type="text" value="1"/>
	 25.0/25.4mm Optic Dia., E-Series Kinematic Mount	Adjustable - Tip-Tilt		#15-866	£34.80 Request Quote	10 In Stock <input type="text" value="1"/>
	 2.0 - 35.0mm Optic Dia., Three- Screw Adjustable Ring Mount	Fixed		#03-668	£50.40 Request Quote	20+ In Stock <input type="text" value="1"/>
	 25.0/25.4mm Optic Dia., L-Slot Direct Mount	Fixed		#36-410	£54.40 Request Quote	15 In Stock <input type="text" value="1"/>

	Title	Type	Compare	Stock Number	Price	Buy
MORE+ 	25.0/25.4mm Optic Dia., Side Flange Direct Mount	Fixed		#36-414	£56.80 Request Quote	20+ In Stock <input type="text" value="1"/> 
MORE+ 	9.5 - 73.0mm Optic Dia., Three-Screw Adjustable Ring Mount	Fixed		#36-605	£66.40 Request Quote	20+ In Stock <input type="text" value="1"/> 
MORE+ 	25.0/25.4mm Optic Dia., Optical Cell Assembly	Fixed		#36-461 CLEARANCE	£76.76 Request Quote	2 In Stock <input type="text" value="1"/> 
MORE+ 	25.0/25.4mm Optic Dia., Kinematic Mount, 2-Screws	Adjustable - Tip-Tilt		#58-851	£78.80 Request Quote	CONTACT US <input type="text" value="1"/> 
MORE+ 	25.0/25.4mm Optic Dia., L-Slot and Rotation Direct Mount	Adjustable - Rotary		#36-411	£81.60 Request Quote	5 In Stock <input type="text" value="1"/> 
MORE+ 	5.0 - 25.0mm Optic Height, Metric Bar-Type Optic Holder	Fixed		#55-529	£81.60 Request Quote	20+ In Stock <input type="text" value="1"/> 
MORE+ 	7.0 - 40.0 Optic Height, English Bar-Type Optic Holder	Fixed		#03-676	£84.80 Request Quote	20+ In Stock <input type="text" value="1"/> 
MORE+ 	25.0/25.4mm Optic Dia., Kinematic Mount, 3-Screws	Adjustable - Tip-Tilt		#58-854	£85.60 Request Quote	20+ In Stock <input type="text" value="1"/> 
MORE+ 	10.0 - 60.0mm Optic Height, Metric Bar-Type Optic Holder	Fixed		#55-530	£86.40 Request Quote	CONTACT US <input type="text" value="1"/> 
MORE+ 	19.5 - 108.0mm Optic Dia., Three-Screw Adjustable Ring Mount	Fixed		#03-670	£91.20 Request Quote	20+ In Stock <input type="text" value="1"/> 
MORE+ 	7.0 - 67.0 Optic Height, English Bar-Type Optic Holder	Fixed		#03-669	£92.80 Request Quote	20+ In Stock <input type="text" value="1"/> 
MORE+ 	8.0 - 118.0 Optic Height, English Bar-Type Optic Holder	Fixed		#03-666	£96.00 Request Quote	20+ In Stock <input type="text" value="1"/> 
MORE+ 	4.0 - 36.0mm Optic Dia., Self-Centering Jaw Clamp	Fixed		#16-077	£125.60 Request Quote	5 In Stock <input type="text" value="1"/> 
MORE+ 	25.0/25.4mm Optic Dia., Stainless Steel Kinematic Mount, 2-Screws	Adjustable - Tip-Tilt		#26-815	£128.80 Request Quote	4 In Stock <input type="text" value="1"/> 
MORE+ 	25.0/25.4mm Optic Dia., Stainless Steel Kinematic Mount, 3-Screws	Adjustable - Tip-Tilt		#26-818	£145.60 Request Quote	9 In Stock <input type="text" value="1"/> 
MORE+ 	25.0/25.4mm Optic Dia., X-Y Translating Optic Mount	Adjustable - Linear (XY)		#62-956	£220.80 Request Quote	CONTACT US <input type="text" value="1"/> 

	Title	Type	Compare	Stock Number	Price	Buy
 	25.0/25.4mm Optic Dia., Kinematic Mirror Mount	Adjustable - Tip-Tilt		#55-003	£268.80 Request Quote	14 In Stock <input type="text" value="1"/> 
 	25.0/25.4mm Optic Dia., Kinematic Mirror Mount with Micrometer	Adjustable - Tip-Tilt		#55-456	£288.80 Request Quote	3 In Stock <input type="text" value="1"/> 
 	5.0 - 100.0mm Optic Dia., Self-Centering Jaw Clamp	Fixed		#16-078	£328.00 Request Quote	CONTACT US <input type="text" value="1"/> 
 	25.0/25.4mm Optic Dia., Precision Gimbal Mount	Adjustable - Gimbal		#54-999	£368.80 Request Quote	4 In Stock <input type="text" value="1"/> 
 	25.0/25.4mm Optic Dia., X-Y-Z Translating Optic Mount	Adjustable - Linear (XYZ)		#62-959	£432.00 Request Quote	6 In Stock <input type="text" value="1"/> 
 	25.0/25.4mm Optic Dia., 5 Axes Optical Mount	Adjustable - Linear (XYZ) & Tip-Tilt		#13-776	£604.00 Request Quote	2 In Stock <input type="text" value="1"/> 

Check out our full selection of mounts [here](#).

Resources

Media Type

- Scientific Paper
- Application Note
- FAQ
- Glossary
- Video

SCIENTIFIC PAPER

Ultraviolet fatigue testing of laser optics

APPLICATION NOTE

UV Optics: Tighter Tolerances and Different...

APPLICATION NOTE

Why Laser Damage Testing is Critical for UV...

FAQ

Can BK7 be used for UV applications?

GLOSSARY

Ultraviolet (UV) Spectrum

APPLICATION NOTE

Understanding White Diffusing Glass

[View More](#)

