Fiberguide’s proprietary De-Speckler technology averages the modal noise within an optical fiber. This reduction in speckle is an ideal choice for fiber assemblies used in the Life Sciences, Digital Laser Projection, Interferometry, Laser Beam Homogenization, Lithography, and Metrology. For many fiber coupled applications, modal noise interferes with optimal performance. Fiberguide has developed a small, simple and integrated de-speckling system which maximizes performance and reliability in illumination, with no optical loss.

**SPECIFICATIONS:**

<table>
<thead>
<tr>
<th>Specification</th>
<th>Details</th>
</tr>
</thead>
<tbody>
<tr>
<td>Power Supply</td>
<td>+5 Volts</td>
</tr>
<tr>
<td>Power Consumption</td>
<td>&lt; 1 Watt</td>
</tr>
<tr>
<td>Wavelength</td>
<td>400nm – 1550nm</td>
</tr>
<tr>
<td>Fiber Core Size</td>
<td>100μm – 400μm</td>
</tr>
<tr>
<td>De-Speckling Rate</td>
<td>Up to 10,000 Hz</td>
</tr>
</tbody>
</table>

**LEGEND:**

- 400/430 Round Core/Plastic Clad
- 400/600 Square Core
- 400/440 Round Core/Glass Clad
- 200 Square Core
- 200 Round Core
- 105/125 Round Core

**CONTACT US:**

Fiberguide Industries, Inc.
3409 East Linden St., Caldwell, Idaho 83605
Phone: +1 (208) 454-1988  Toll Free: +1 (877) 565-0888  www.fiberguide.com
Customization Options

**Fiber Types:**
- All Silica Optical Fiber
- Plastic Clad Fiber
- Round or Square Core Fiber
- Rare Motheye Available

**Jacket Types:**
- Acrylate
- Nylon
- Polyimide
- Tefzel

**Assembly Types:**
- Single Fiber Assemblies

**Connector Types:**
- 905 SMA
- 906 SMA
- FC/PC
- FC/UPC
- FC/APC
- ST/PC
- ST/UPC
- ST/APC
- Cleaved Ends
- Polished Ends
- Round 2.5mm Ferrule
- Custom Connectors

**Certifications:**
- FDA Registered
- ISO 9001:2015
- ISO 13485:2016

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**Configuration Options**

**For Direct Integration**

- De-Speckler Driver (2" x 0.875" x 0.52")
- Optical Fiber (Side A)
- Optical Fiber (Side B)
- Light Source or Output
- USB Mini-B

**For added ESD/ESA protection during benchtop testing**

- De-Speckler Driver (3.25" x 1.5" x 0.779")
- Optical Fiber (Side A)
- Optical Fiber (Side B)
- Light Source or Output
- USB Mini-B

**TYPICAL APPLICATIONS:**

**Life Sciences:**
- Bioanalytical Instrumentation
- Flow Cytometry
- Gene Sequencing
- Microscopy
- Spectroscopy

**Digital Laser Projection**
- Interferometry
- Laser Beam Homogenizers
- Lithography
- Metrology

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