

# Fiberguide De-Speckler System >

The Fiberguide De-Speckler System maximizes fiber optic performance and illumination reliability with no optical loss and is suitable for fiber assemblies in a wide variety of applications



The Fiberguide De-Speckler System

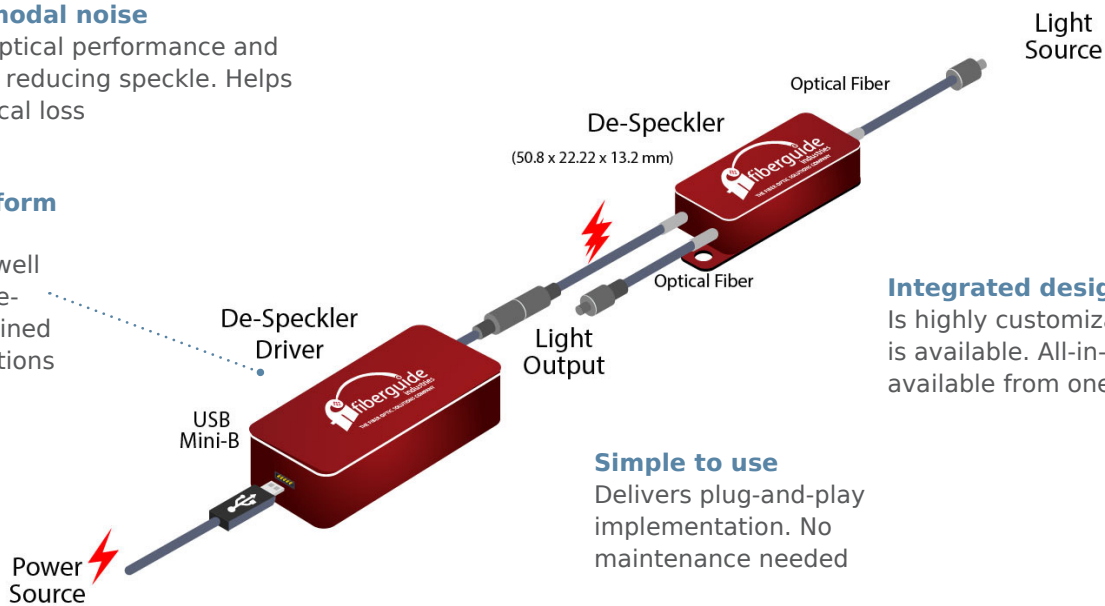
## FEATURES AND ADVANTAGES

### Averages modal noise

Maximizes optical performance and reliability by reducing speckle. Helps prevent optical loss

### Small form factor

Works well in space-constrained applications



### Integrated design

Is highly customizable. Motheye is available. All-in-one system available from one vendor

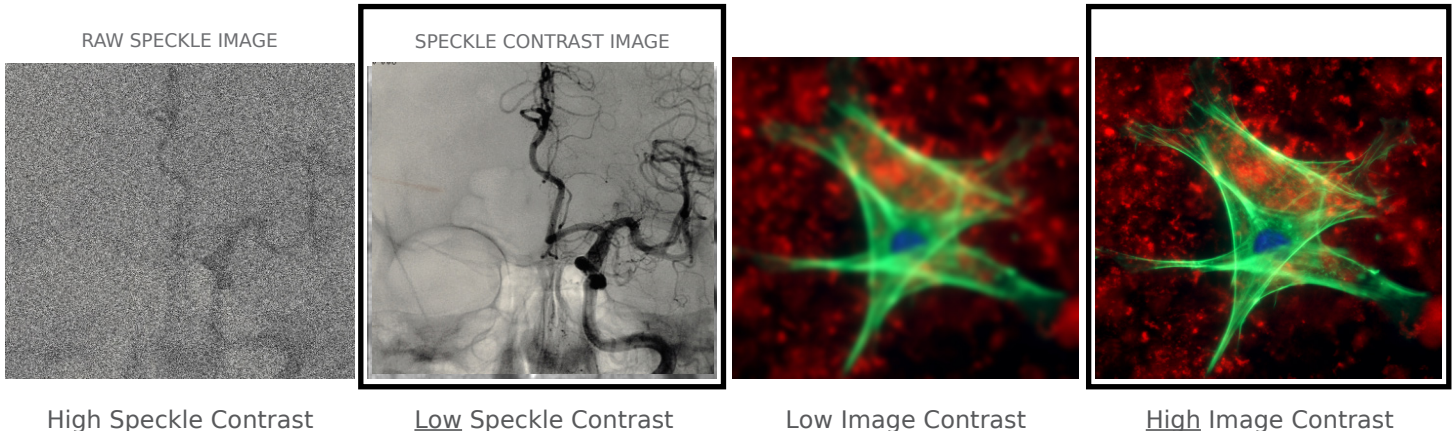
### Simple to use

Delivers plug-and-play implementation. No maintenance needed

## ADDITIONAL PRODUCT FEATURES

### Speckle Contrast

### (ACTUAL) Image Contrast



High Speckle Contrast

Low Speckle Contrast

Low Image Contrast

High Image Contrast

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## MARKETS AND APPLICATIONS

### Scientific

Bioanalytical instrumentation  
Flow cytometry  
Gene sequencing  
Fluorescence microscopy  
Microscopy  
Spectroscopy

### Consumer

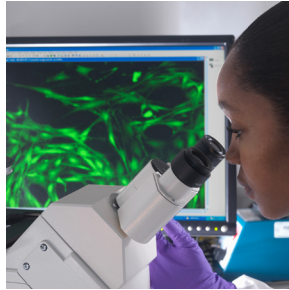
Digital laser projection  
Laser beam homogenization

### Industrial

Interferometry  
Photolithography  
Metrology

### Certifications:

FDA Registered  
ISO 9001:2015  
ISO 13485:2016



*Fluorescence Microscopy*



*Gene Sequencing Equipment*



*Metrology Equipment*

## SPECIFICATIONS

### Electrical

Power Supply: +5V  
Power Consumption: <1W

### Fiber

Wavelength: 400 to 1550nm  
Fiber Core Size: 100 to 400µm  
De-speckling Rate: Up to 10,000 Hz

### Physical

#### Jacket Types:

Acrylate  
Nylon  
Polyimide  
Tefzel

#### Fiber Types:

All silica optical fiber  
Plastic-clad fiber  
Round or square core fiber  
RARE Motheye available  
Fiber 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

[www.molex.com/link/despecklersystem.html](http://www.molex.com/link/despecklersystem.html)