SK-11™ Speckle Reducer

Features

- **Range from 450nm - 950nm**
- **No moving parts**
- **Uniform beam output**
- **Much higher power than any LED**
- **Workes with most lasers**
- **Excellent for temporal resolved imaging**

Produced by Nanophoton Corp.

One of the most annoying aspects of using lasers as an illuminating source is the speckle noise they produce which degrades your image. This is due to the coherence of the laser source.

The SK11™ Speckle Reducer improves image quality by reducing the coherence of the laser source. This is accomplished by using a bundle of fibers of different lengths. Each fiber length differs by more than the coherence length of the laser.

The SK11 is an excellent source for microscopic illumination. Using monochromatic light eliminates any chromatic aberration of the objectives lens. Since the SK11 has no moving parts, it produces no vibrational noise. A scanning system is not required. This makes the SK11™ Speckle Reducer suitable for temporal resolved imaging.

The SK11 also homogenizes any input beam. A Gaussian input profile is transformed into a homogeneous profile.

We have many laser wavelengths available from 375nm to 1600nm which can be used with the SK11. You can also use most types of lasers in your lab as well.

Micro Laser Systems, Inc.
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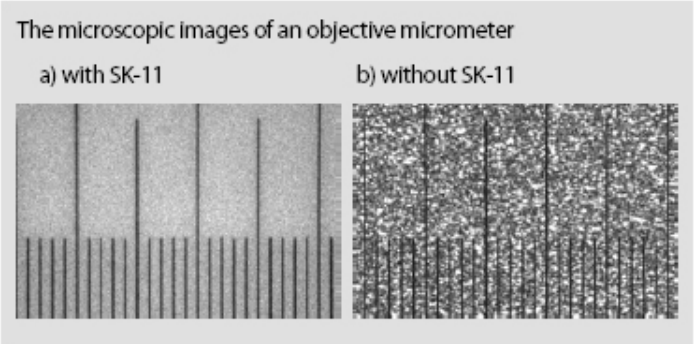
Speckle Reducer

Specifications

Wavelength ranges:	450nm to 950nm Optional 1000nm to 1400nm Options for 250nm to 400nm
Entrance/Exit aperture:	5mm standard Options for 2mm, 3mm and 10mm
Fiber pigtail length:	1 meter
Power handling:	Low power <300W/cm^2 High power <1200W/cm^2
Transmission:	>50% at 532nm

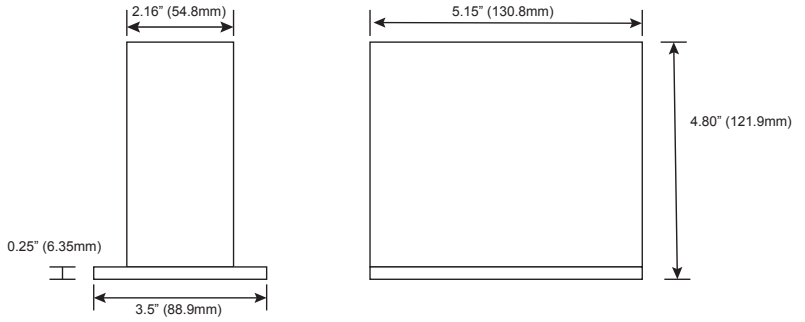


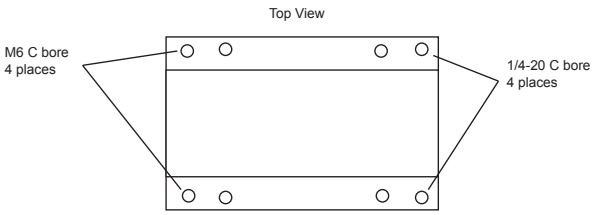
References: • Dingel, Kawata, et al., Optik, 94 (1993) 132.
• Dingel, Kawata, Opt. Commun., 93 (1992) 27.

Ordering Information

Model #	**Low Power (<300W/cm^2)**
SK-11-Mg-2	2mm aperture
SK-11-Mg-3	3mm aperture
SK-11-Mg-5	5mm aperture
Model #	**High Power (<1200W/cm^2)**
SK-11-Mg-5-350C	5mm aperture
Model #	**UV Light (no pigtail)**
SK-11-Qz-3	3mm aperture

Dimensions





Specifications subject to change without notice.

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