

Diffuse LED Illuminator for Stereomicroscopes ILLUMINATION WITHOUT COMPROMISES



Features:

- **Excellent for illumination of insects, semiconductor parts, jewelry, gemstones, metals, rocks, plastics, glass, specimens in liquids in Petri dishes and highly reflective surfaces**
- **12+1 independently controlled LED segments** creating pseudo-spherical surface illuminate the specimen from almost all directions without producing shades.
- **Diffusers of LED segments for glare reduction**
- **6 tilting arms for convenient specimen handling and setting the angle of light incident on a specimen**
- **432 LEDs provide high illuminating power.**
- **LEDs with high color rendering index $R_a > 95$ provide excellent color reproduction.**
- **Single button press switches on / off the whole upper and lower ring formed by LED segments**
- **Rotation of the preset combination of lit / switched off LED segments clockwise and counter clockwise**
- **Constant color temperature over the whole illumination range**
- **Constant brightness** – no flickering and no interference with the camera's image frequency
- **Low power consumption, lifetime over 54 000 hours**
- **Environmentally friendly solution** – free from halogen and mercury, RoHS compliant
- **Dimensions: 195 mm x 195 mm x 133 mm (height)**
- **PC control option (SDK available)**
- **Supported by QuickPHOTO 3.x microscope software suite**
- **CE certified**

Compatible Stereomicroscopes:

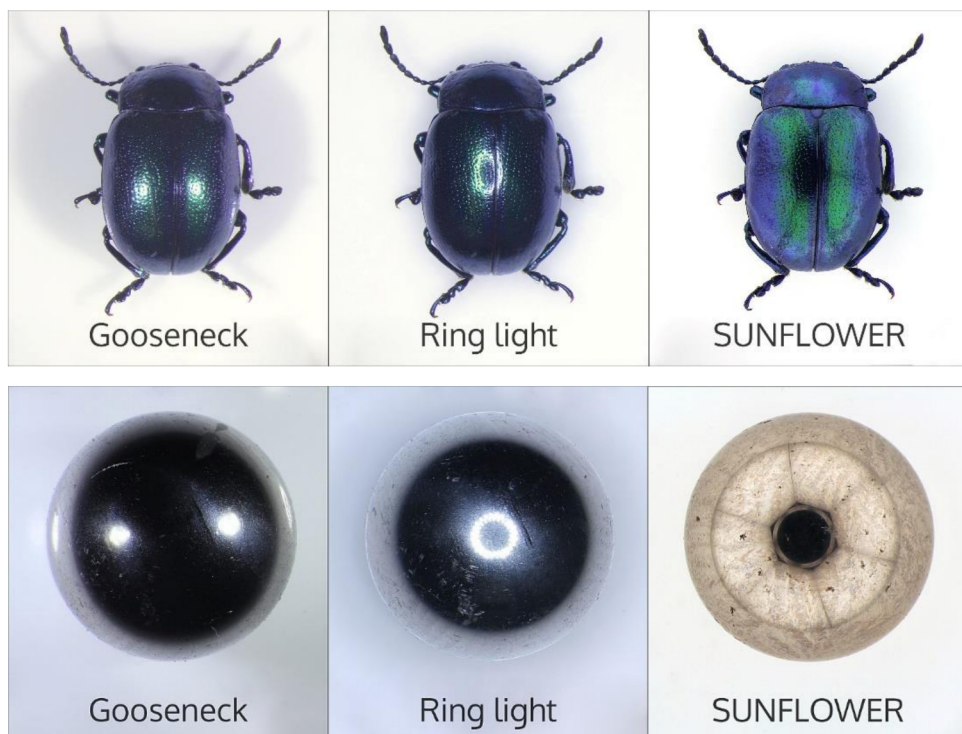
- Stereomicroscopes with objective diameter 60 - 69 mm

Example of Use:



SUNFLOWER illuminator with control unit used with OLYMPUS® SZX16 stereomicroscope

Comparison with Other LED Microscope Illuminators:



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Compatibility with Stereomicroscopes

The SUNFLOWER illuminator can be used with stereomicroscopes from various manufacturers. Regarding the compatibility, the most important parameter of the stereomicroscope is a diameter of its lens (objective). The reason is, the diameter of illuminator's upper opening for the lens is 69 mm.

Lenses with diameter up to 69 mm

Lenses with diameter up to 69 mm can go through the upper opening of the illuminator. In such case, there are two important parameters of the lens, which need to be considered:

WD – Working Distance

LL – Length of the Lens

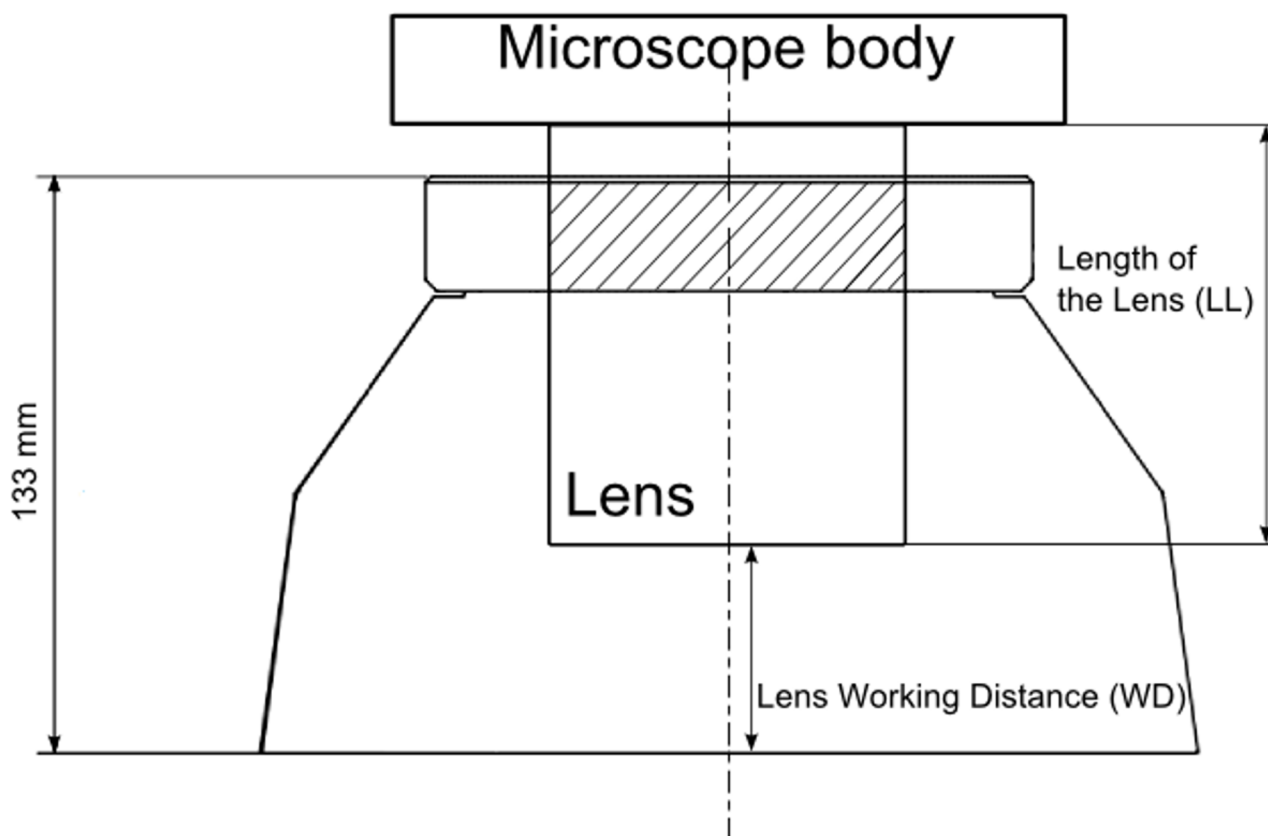
In order to be able to focus the microscope without a need to lift up the specimen or to open the arms of the illuminator, the following criterion should be accomplished:

$WD + LL > 133 \text{ mm}$

(That means, that the sum of Working Distance of the lens and Length of the Lens needs to be higher than is the height of the illuminator.)

Lenses with diameter greater than 69 mm

Lenses with diameter greater than 69 mm cannot go through the upper opening of the illuminator. In such cases, the working distance of the lens used needs to be higher than is the height of the illuminator (which is 133 mm) or the specimen needs to be lifted up under the illuminator.



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