SCHOTT
glass made of ideas

EasyLED Series

Standard illumination for stereo microscopy

SCHOTT is a leading international technology group in the areas of specialty glass and glass-ceramics. With more than 130 years of outstanding development, materials and technology expertise we offer a broad portfolio of high-quality products and intelligent solutions that contribute to our customers' success.

Light is a key element in stereo microscopy. Reliable illumination solutions are necessary to make hidden details visible and results reproducible. SCHOTT's Lighting and Imaging division offers a complete portfolio in fiber optic and direct LED illumination to provide the most suitable contrasting solution for a variety of industrial applications and life science.

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Discover our EasyLED Series

The SCHOTT EasyLED portfolio for stereo microscopy delivers precise LED light for a wide variety of applications like laboratory and diagnostics, industrial applications, education or forensic science. The series offers robust design and easy handling in a compact device, with a range of accessories for your specific requirements.

Easy handling across the series
The EasyLED series is designed for easy handling. Since the fully integrated and ergonomically designed control elements are placed right next to the focus control of the microscope, they make external controller boxes obsolete.

Reliability through robust design
SCHOTT's series of EasyLED products are tough, long-lasting and reliable. Their tough housings protect against mechanical influences and atmospheric conditions, while the long lifetime of LEDs make them maintenance-free.

Benefits

Maintenance-free

LED lifetime of 50,000 hours.

Compatible with all common OEMs

A mounting adapter is available for all common microscope stands, making the EasyLED suitable for a wide range of systems.

Ergonomic design

An integrated controller enables simple and intuitive switching between illumination modes.

Product Variants

All products in the SCHOTT EasyLED collection are designed using robust metal housing and bright LEDs with a lifetime of 50,000 hours. In addition, the range of EasyLED Accessories offers a variety of diffusers, polarization filters and mounting brackets for standard and customized systems.

Ring Lights

The EasyLED Ring Light delivers highly homogeneous and shadow-free illumination in a tough metal housing and well-designed heat sink. The EasyLED Ring Light Plus has the advantage of controllable segments to enable new contrasting methods, while the integrated 'jog dial' element provides simple and intuitive switching between illumination modes, as well as rotation of the segments in both directions.

Characteristics
- Powerful luminance (90/140 klux for EasyLED Ring Light and Ring Light Plus respectively)
- Integrated controller
- Mountable direct to the microscope objective
- EasyLED Ring Light Plus is segmentable with eight segments

Advantages
- Various contrasting methods thanks to different segment modes
- Easy to use thanks to integrated operational elements
- Robust design for operation in demanding environments

See SCHOTT's segmented ring lights in action and learn about typical areas of application.

Back Lights

The EasyLED Back Light integrates high brightness LEDs with controller electronics into the head of the illuminator, offering easy and ergonomic operation. Made with a SCHOTT Opalika® glass surface, it’s ideal for transparent specimens.

Characteristics
- Powerful light density up to 12,000 cd/m²
- Continuous dimming from 0-100 %
- Integrated controller
- Scratch-resistant surface

Advantages
- Made with SCHOTT Opalika® for perfect homogeneity
- Easy to use thanks to integrated operational elements
- Robust design for operation in demanding environments

Spot Lights

EasyLED Spot Lights are available in two different versions: an individual spot light with a single light head (Spot Light Plus Single), and a double spot light with two light heads (Spot Light Plus Double). In addition, the two light heads of the Spot Light Plus Double can be used individually.

Characteristics

- Powerful light flux of 130 lm for each spot
- Robust metal light head equipped with special cooling lamellae
- Integrated controller
- Mountable direct to the stand. Mounting brackets for all stands plus a standalone version are all available

Advantages

- Ergonomic design – the dimming control is ergonomically placed near the focus control of the microscope
- Robust design for operation in demanding environments
- Double Spot Light Plus has a switching feature for alternating lighting options

Accessories

SCHOTT offers a variety of mechanical and optical accessories to increase the flexibility of the EasyLED series. Accessories include polarization filters, mounting brackets and color filters for EasyLED Spot Lights, as well as diffusers for EasyLED Ring Lights.

Characteristics

- Turnable polarization filter
- Halogen filter and color filters in red, blue, green and yellow available
- Diffuser with adapting thread (M110 x 1) to avoid LED reflection
- Mounting brackets for column Ø from 25-35 mm
- Borofloat® glass protection window for oily and dusty environments

Advantages

- The unique tubular diffuser combines in an economic way the advantages of dome lights and conventional diffusers and enables perfect contrast for highly reflective objects
- Compatible with different OEM designs
- Polarization filters with perfect extinction ratio
- Color filters with high transmission unaffected by light-entrance angle

Watch the video about SCHOTT's tubular diffuser.


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EasyLED

System Diagram for EasyLED Series

Ring light
P/N 600.200

Ring light plus
P/N 600.300

Polarization filter set
P/N 400.550

Diffuser
P/N 400.570

Tubular diffuser
P/N 400.590

Protection window
P/N 400.560

Adapter
for brightfield ring lights
$Ø_i$ = 50 mm P/N 157.448
$Ø_i$ = 58 mm P/N 157.450
$Ø_i$ = 60 mm P/N 157.452

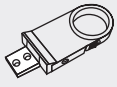
Back light / Transmitted light stage
P/N 600.400

Adapter
for base plate
Ø 90 mm P/N 157.630
Ø 100 mm P/N 157.600
Ø 120 mm P/N 157.610
Ø 180 mm P/N 157.620

Polarizing filter attachment for TL
P/N 158.500

Spot light plus single
P/N 600.101

Spot light plus double
P/N 600.121



Mounting bracket

for column Ø 20 mm	P/N 120.220
for column Ø 25 mm	P/N 120.225
for column Ø 29 mm	P/N 120.229
for column Ø 32 mm	P/N 120.232
for column Ø 35 mm	P/N 120.235
for ZEISS stand K/stand M	P/N 120.240

Mounting bracket
P/N 120.250

Base
Ø = 100 mm
3 x M6 thread
P/N 158.340

Polarization filter for spot (turnable)
P/N 600.600

Color filter for spot

red	P/N 600.650
blue	P/N 600.660
green	P/N 600.670
yellow	P/N 600.680
halogen	P/N 600.690

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