

PHOTONIC
OPTICS

LED Illumination

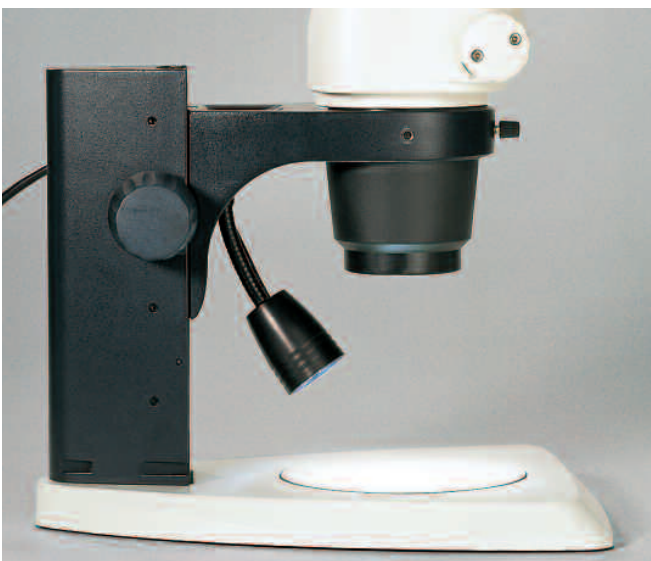


LED Illumination

This new LED illumination system has been developed for stereomicroscopy illumination purposes.

This form of illumination has the following distinctive features:

- ▼ 5.000 K colour temperature (daylight!)
 - ▼ no rippling or flickering
 - ▼ long LED life
 - ▼ silent, non-vibratory operation
 - ▼ exceptionally compact design
 - ▼ battery operation possible
- ▼ the modular LED design provides homogenous, shadow-free lighting when used in the ringlight, or a concentrated beam in the spot, or a combination of both types of illumination.



The System

The illumination system consists of:

- ▼ **switch-mode power supply**
- ▼ **control unit and**
- ▼ **LED unit**

The following sets are available:

Switch-mode power supply and control unit with either

- ▼ one **ringlight** or
- ▼ one **spot** or
- ▼ two **spots** or
- ▼ one **ringlight** and one **spot**



- ◀ The **LED ringlight** (40 LEDs) provides for exceptionally bright and homogenous illumination of an object and is designed for a microscope with a lens diameter of 66 mm. The ringlight is secured by means of a screw and spring in a way which protects the lens.



- ◀ Appropriate **adapters** are available for other microscopes.



Polarizing filter set

The voltage range for the **switch-mode power supply** is 100–240 V and it has a 3-pin plug connector.



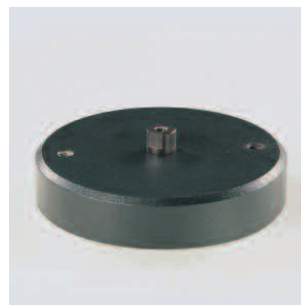
The compact **control unit** features an ON-OFF switch, an infinitely adjustable brightness regulator with a „turbo range“, and two connection sockets for accommodating the LED illumination units. A 24 V battery or a suitable battery pack can be attached with a cable using a female plug connector.



The **LED spot** (19 LED's) can be attached directly to the microscope or positioned as required by means of a goose neck and a base plate.



The LED illumination system can be employed for a wide range of applications thanks to the extensive selection of **accessories**.



Base plate



Goose neck



Colour filters for spot

Technical specifications

Mains supply unit

Plug connector	3-pin IEC 320
Voltage range	100-240 V AC
Mains frequency	50/60 Hz
Max. power input	15 VA
Dimensions	91.5 x 40.5 x 38.5 mm

Control unit

Power supply	24 V DC, hollow pin plug 5.5 x 2.1 mm, 250 mA
Connections to ringlight/spot	2 x 9-pin mini DIN sockets
Other elements	ON-OFF switch and potentiometer wheel
Dimensions	95.5 x 64 x 28.5 mm

Ring light

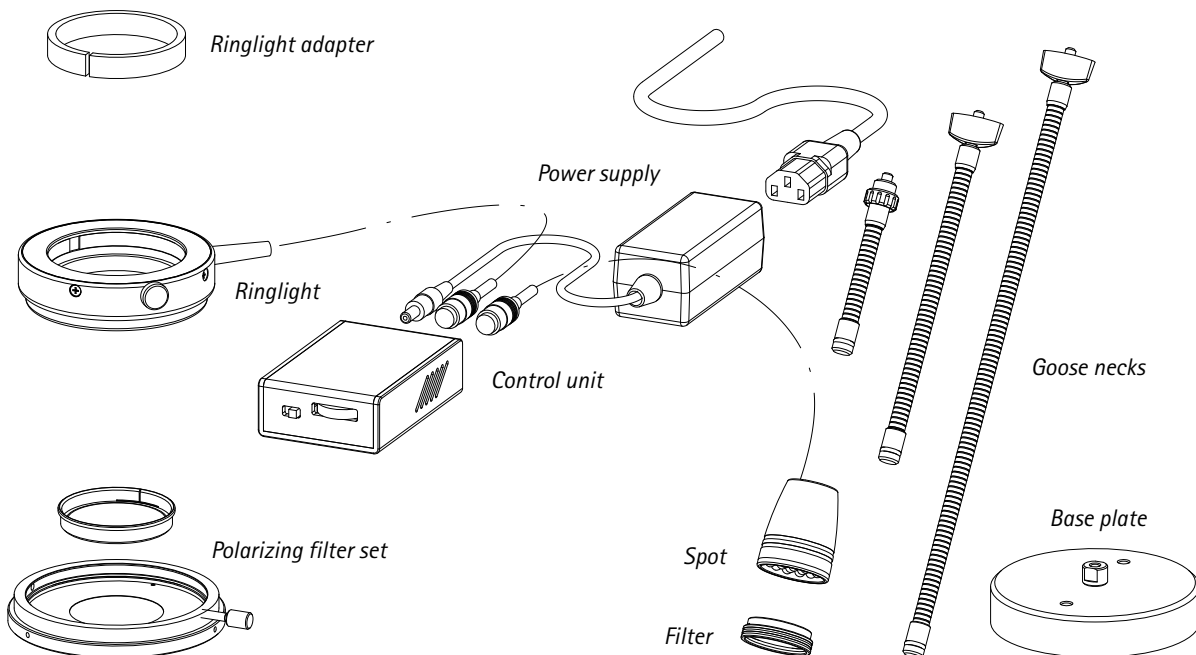
LED's	40
Colour temperature	5.000 K
Material	Aluminium, anti-static
Dimensions	for objective \varnothing 66 mm, exterior \varnothing 94 mm, H = 25 mm
Cable length	1.000 mm

Spot

LED's	19
Colour temperature	5.000 K
Material	Aluminium, anti-static
Dimensions	\varnothing 35 mm, H = 45 mm
Cable length	1.000 mm

Goose necks

Material	semirigid brass-steel, black painted
Dimensions	\varnothing 8 mm, L = 85/200/300 mm



Accessories

for LED ringlight

- Polarisation filter set
- Individual adapter for many microscopes
- Universal adapter for lenses with a diameter from 38 mm to 58 mm

for LED spot

- Attachable colour filters: blue, green, yellow, red
- Goose necks: 85, 200 and 300 mm
- Base plate with M5 adapter for mounting gooseneck

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Photonic Optische Geräte GmbH & Co KG
Seeböckgasse 59, A-1160 Vienna, Austria
Tel.: +43-1-486 56 91-0
Fax: +43-1-486 56 91-33
Internet: www.photonic.at
E-mail: sales.fo@photonic.at