

**LED ILLUMINATION**
MODULAR SYSTEM FOR UNIFORM ILLUMINATION

Photonic's LED system is a universal illumination system that can be combined with a variety of components. The individual components are equipped with high-quality LEDs for maximum brightness and a long working life. Ringlights, spots and backlights are available for a wide range of applications. Their new modular design permits a variety of applications to be combined, while ensuring outstanding illumination quality.

LED ILLUMINATION
COMPONENTS**LED ringlight 40**

The LED ringlight (40 LEDs) provides for exceptionally bright and homogenous object illumination and is designed for 66 mm lens diameter microscopes. The ringlight is secured by means of a screw and spring to protect the lens.

LED ringlight 38

This smaller LED ringlight (20 LEDs) provides bright and homogenous illumination for the whole working space. It is designed for 38 mm diameter lenses and can be mounted using screws without damaging the lens.

**LED-spot**

The LED spot (19 LEDs) can be attached directly to the microscope or positioned as required by means of a gooseneck and a base plate.

**Universal backlight**



This transmitted light illuminator can be positioned on the stereomicroscope work surface and features exceptionally uniform daylight-quality illumination, long-life LEDs and a compact design.

**Control Unit**

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.

LED ILLUMINATION TECHNICAL DATA



	LED ringlight 40	LED ringlight 38	LED-spot	Universal backlight
Diodes	40	20	19	20
Colour temperature	5.000 K	5.000 K	5.000 K	5.000 K
Material	Aluminium anti-static	Aluminium anti-static	Aluminium anti-static	PVC black laminated glass
Dimensions	objectiv- Ø 38 mm external Ø 60 mm	objectiv Ø 38 mm external Ø 60 mm	objective Ø 34 mm height 24.5 mm	base plate Ø 95 mm external Ø 120 mm height 24.5 mm
Cabel length	1.000 mm	1.000 mm	1.000 mm	1.000 mm
Control Unit				
	Power Supply		24 V DC +/- 5% hollow pin plug 5.5 x 2.1 mm, 250 m	
	Connectors for backlight		2 x 9-pin mini DIN sockets	
	Dimensions		95.5 x 64 x 28.5 mm	
	On/Off potentiometer		3-30 mA, incl. Indexmarks	
Switch-mode power supply				
	Plug connector		3-pin IEC 320	
	Voltage Range		100-240 V	
	Mains frequency		50/60 Hz	
	Power rating max.		15 VA	

LED ILLUMINATION ACCESSORIES



Polarizing filter set & Colour filters for spot

This set consists of a polarizer and an analyser and eliminate reflections. It is inserted into the ringlight.



Adapter for ringlights

There are a wide range of adapters for microscopes / microscope lenses when standard 66mm diameter ringlights cannot be attached. If required, customised adapters can be supplied.



Goose neck light guides

In single or dual leg versions, these light guides also allow spot illumination. A semi-rigid protective or sheathed tube permits the light guide to be positioned in the directions required.