SCHOTT
glass made of ideas

VisiLED Series

Professional 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. By using the correct illumination it can make hidden details visible and enhance the contrast of the objects to distinguish the feature of interest. A wide variety of tasks from life science to industrial applications require very different illumination techniques. SCHOTT is able to offer the full range of fiber optic and LED lighting products with an extensive range of accessories to meet your specific needs.

Contents

VisiLED series
The VisiED product line offers modular LED illumination for stereo microscopy, so that it always matches with the LED's temperature. Therefore the SCHOTT VisiLED product line is not just an accessory but a professional illumination system for even specialized tasks up to the highest magnifications.

VisiLED Ringlights – Brightfield

Professional incident illumination

Answering the needs of the most specialized of tasks, the modular VisiLED series is built on flexibility and quality. Molding the lighting setup to each application, a number of high performance ringlights and light stages enable high intensity illumination or even a combination of techniques.

The VisiLED Brightfield Ringlights offer an extreme homogeneous and shadow free illumination in a robust metal housing and well designed heat sink to enable a maximum brightness of 200 kLux and a long lifetime of at least 50,000 hours.

The VisiLED Brightfield Ringlights S40-55, S80-55, S80-25 and S80-65 N offer different brightness levels, working distances and mounting diameters for various stereo microscopy objectives. In combination with the available accessories like diffusers, polarizer sets and adaptor rings different illumination modes are possible.

The VisiLED Slim Ringlight offers an extreme homogenous and shadow free illumination in a robust metal housing and well designed heat sink to make a maximum brightness of 65 kLux. The incredibly thin and light design with an outer diameter of just 82 mm is optimal for unconfined object preparation and provides ample space for the usage with objective revolvers. By simply exchanging screwable focus optics rings, three variable working distance ranges are possible for brightfield and darkfield illumination.

Features

- Powerful illuminance
- Thin ergonomical design
- Segmentable
- Actively controlled LED temperature
- Compatible with objective revolvers (Slim Ringlight)
- Variable working distance ranges possible by exchange of focus optics rings

VisiLED Ringlights – Darkfield

Professional darkfield illumination

The VisiLED Darkfield Ringlight offers an extreme homogeneous and shadow free illumination in a robust metal housing and well designed heat sink to make a maximum brightness of 130 kLux and a long lifetime of at least 50,000 hours. SCHOTT has developed and designed this multi LED light head to provide an attractive alternative to conventional cold light sources with fiber optics.

The VisiLED Darfield Ringlight S40-10 D offers the possibility of real incident darkfield illumination. In addition it can be combined with all brightfield ringlights using the brightfield-darkfield adapter kit.

Features

- Powerful illuminance
- Slim ergonomical design
- Segmentable
- Actively controlled LED temperature
- Adaptable to microscope bases

VisiLED ACT Base – Advanced Contrast Transmitted

Most advanced darkfield illumination

The VisiLED ACT Base offers an extreme homogeneous and shadow free illumination in a robust metal housing and well designed heat sink to make a maximum luminescence and a long lifetime of at least 50,000 hours. SCHOTT has developed and designed this multi LED light head to provide an attractive alternative to conventional cold light sources with fiber optics.

The VisiLED ACT Base offers a unique moveable ”semi-diaphragm aperture“ for a 3-D ”relief contrast“. This allows the quick switching and easy creation of mixed brightfield and darfield lighting scenarios especially for examining structures of low contrast and uncolored specimen.

Features

- Powerful luminescence
- Quick switching from brightfield to darkfield
- Segmentable
- Adaptable to microscope bases

VisiLED Backlights

Professional incident and darkfield illumination

Features

- Powerful illuminance
- Segmentable (Darkfield Backlight)
- Scratch resistant SCHOTT Opalika® surface (Brightfield Backlight)

The VisiLED Backlights offer an extreme homogeneous and shadow free illumination in a robust metal housing and well designed heat sink to make a maximum light density up to 20,000 cd/m^2 and a long lifetime of at least 50,000 hours.

The VisiLED Darkfield Backlight TLS-DF offers the possibility of transmitted darkfield illumination.

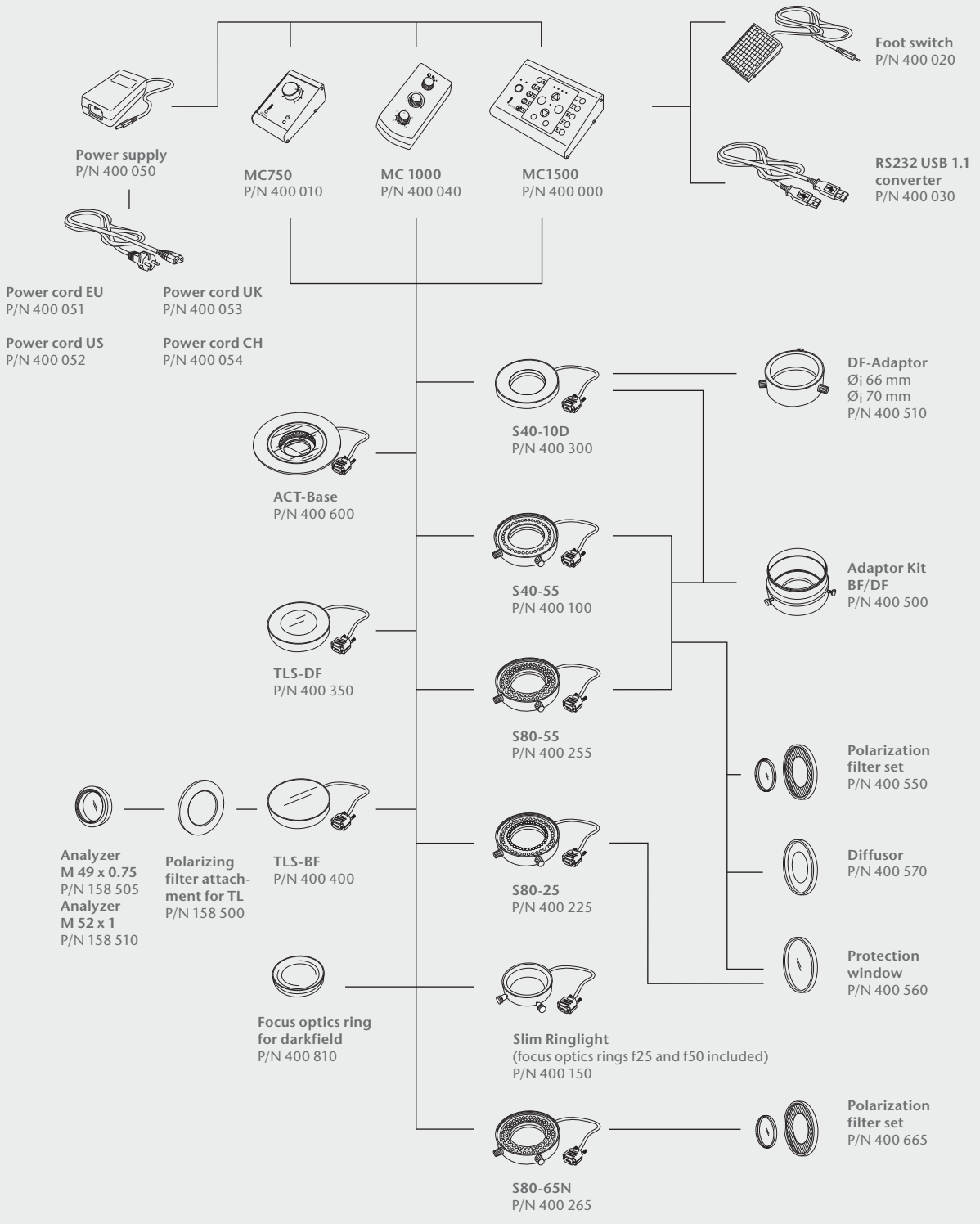
Controllers

The core of the VisiLED system

The VisiLED Controllers MC 1000, MC 1500 and MC 750 are the core of the VisiLED system. The compact MC 1000 allows settings of various illumination parameters including light intensity, different segment modes and change of illumination direction.

Furthermore the MC 1500 offers this simultanously for two light heads plus strobing, external triggering or flashing of the LED light heads. The basic MC 750 controller for lower contrasting requirements offers continuous dimming and over temperature protection of the connected LED light head.

System diagram for VisiLED series



VisiLED system at a glance

VisiLED Series									
		Ringlight						Light Stage	
		S40-55	S80-25	S80-55	Slim-Ringlight	S80-65N	S40-10D	TLS-BF	TLS-DF
Observation Methods	Brightfield (BF)	●	●	●	●	●		●	
	Directional BF, segmented LEDs	●	●	●	●	●		●	
	Darkfield (DF)						●		●
	Directional DF, segmented LEDs						●		●
	Polarization	●		●		●		●	

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