

# LED illumination Ryf LR



**This new LED illumination system has been developed for stereomicroscopy illumination purposes:**

- 5.000 K colour temperature (daylight)
- no rippling or flickering
- long LED life
- silent, non-vibratory operation
- exceptionally compact design



**LED ringlight LR66-40**

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 LR38-20**

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 LR-S19**

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 LR-R20**

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 LRA-1000**

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.

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*new series...*

## Technical Data Ryf LR LED's:



**LED ringlight  
LR66-40**



**LED ringlight  
LR38-20**



**LED-spot  
LR-S19**



**Universal backlight  
LR-R20**

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

Connectors for backlight

Dimensions

On/Off potentiometer

Switch-mode power supply

Plug connector

Voltage Range

Mains frequency

Power rating max.

24 V DC +/- 5%  
hollow pin plug 5.5 x 2.1 mm, 250 m  
2 x 9-pin mini DIN sockets  
95.5 x 64 x 28.5 mm  
3-30 mA, incl. Indexmarks

3-pin IEC 320 Swiss Plug or Schuko Plug

100-240 V

50/60 Hz

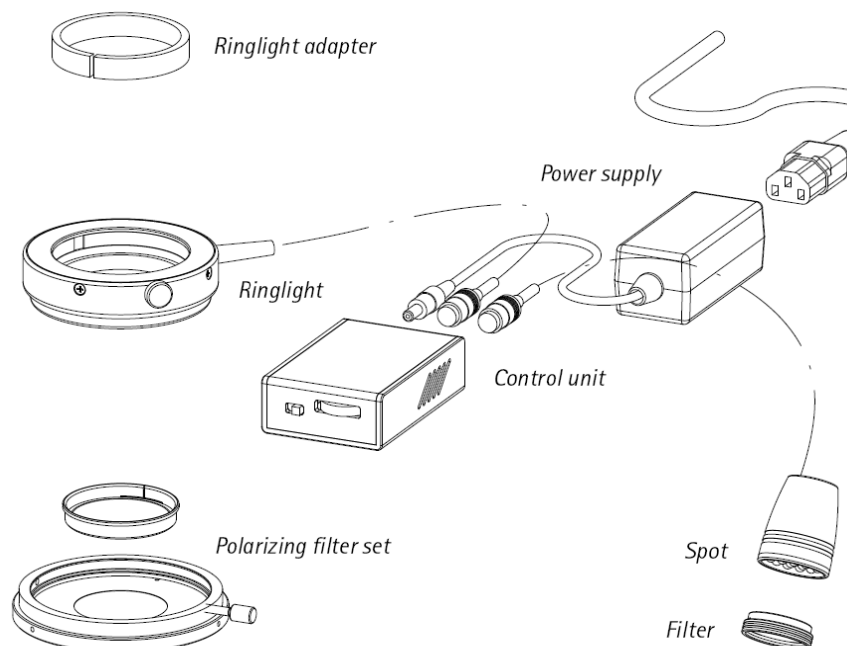
15 VA

Ringlight Adapter for Ø 66 mm

Olympus, Nikon, Leica, Motic & Ryeco-Ryf

Ringlight Adapter for Ø 38 mm

Ryf Toolmaker Microscope RMM28, Measurscope Nikon MM40/MM60, Navitar Objectives Zoom 6000 & Zoom 12x





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## LED Ryf LR:

the modular Ryf LR 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.

### White daylight ring, spot and backlight LED's

#### **LR38-20**

LED Ringlight, 20 D./1m, 24V, Ø 38mm

#### **LR66-40**

LED Ringlight, 40D./1m, 24V, Ø 66mm

#### **LR-R20**

LED Universal Backlight, 24V, 20 white D., glassplate Ø95mm, outer-Ø = 120mm, height total= 24.5mm

#### **LR-S19**

LED Spot, 19D./1m, 24V

#### **LRA-1000**

Power Supply LRA1000 adjustable for 2 Led's

#### Set: **LR66-40-LRA**

LED Ringlight Set with power unit LRA1000 with dimmer  
40D./1m, 24V, Ø 66mm

#### Set: **LR38-20-LRA**

LED Ringlight Set with Power Unit LRA1000 with dimmer  
20D./1m, 24V, Ø 38mm

#### Set: **LR-R20-LRA**

LED Universal-Backlight Set with 24V, 20 white D., glassplate Ø95mm, outer-Ø = 120mm, height total= 24.5mm, Power Unit LRA1000, with dimmer