

# Professional Lighting Systems for Industrial Imaging

# VARIO-XS

The high-quality, LED mini-ringlight with adjustable focus for short operating distances

- small, light, adjustable
- homogeneous illumination of objects
- high-quality execution
- luminous spot, optimally adjustable to changing operating distances
- long lifecycle designed for industrial use
- easy mounting directly onto the filter-thread of the lens, alternatively with a clamp-ring for micro object lenses
- 16 high-quality UHB LEDs
- versions for 12VDC, 24VDC or flash operation
- designed for short operating distances
- standard colors of LEDs: red, IR or white
- compatible to different flash devices, such as MAX, DUO, or LFC

VARIO-XS can be delivered with lensed SMD LEDs or with conventional 3mm LEDs. Only high-quality UHB LEDs are used. Due to the possibility to vary the optical axes of the LEDs, the differing LED characteristics and operating distances can be taken into account (alignment). For better alignment the outer ring of the case is turned against the inner ring. By means of a counter-ring the reached position can be fixed. The frame parts (of outer ring as well as inner ring) are provided with small bore holes. Thus by employing an appropriate tool (like a small screw driver) a firm fixing is done without much effort. This alignment is normally performed by the producer, but it can also be executed by the customer, if necessary. The action of turning backwards (clockwise) comes to a natural stop. In this position the counter-ring is level with the bottom of the VARIO-XS case.

**Attention! Turning forward (counter clockwise = bringing into focus) comes to no natural stop; only 2.5 turns from starting off may be performed.**

## Preliminary Info:

### VARIO-XS Models

VARIO-XS-R635/30-12VDC*	VARIO-XS-WS/45-12VDC** ***
VARIO-XS-R635/30-24VDC*	VARIO-XS-WS/45-24VDC** ***
VARIO-XS-R635/30-Strobe*	VARIO-XS-WS/45-Strobe** ***
VARIO-XS-R635/30-LFC(1)*	VARIO-XS-WS/45-LFC(1)** ***

VARIO-XS-IR880/40-12VDC***	* SMD LED lensed
VARIO-XS-IR880/40-24VDC***	** 3 mm LED
VARIO-XS-IR880/40-Strobe***	*** projected
VARIO-XS-IR880/40-LFC(1)***	

(1) corresponds to the number of channels of the LFC

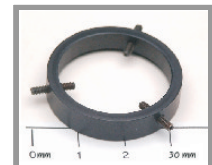
accessories: reduction rings for filter-threads on demand, clamp-ring (counter-clockwise -thread 27x 0.5mm) for micro object lenses; the clamp-ring also fits the RONDOS lighting system

### technical data

case:	alu, black anodised
filter-thread:	27 x 0.5
outer diameter:	52 mm
inner clearance:	25 mm
weight incl. 1.5m cable:	approx. 70g
number of LEDs:	16
standard colors:	red 635nm, IR 880nm, white
power supply 12VDC:	red and IR < 70mA, white < 140mA
24VDC:	red and IR < 40mA, white < 80mA



clamping 27 x 0.5 mm with counter-clockwise thread



### Attention - Security Advice!

LED lighting systems may produce highly intense radiation that might damage your eyesight. Without eye protection never look into the cone of light!

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