

# LED System B45-15

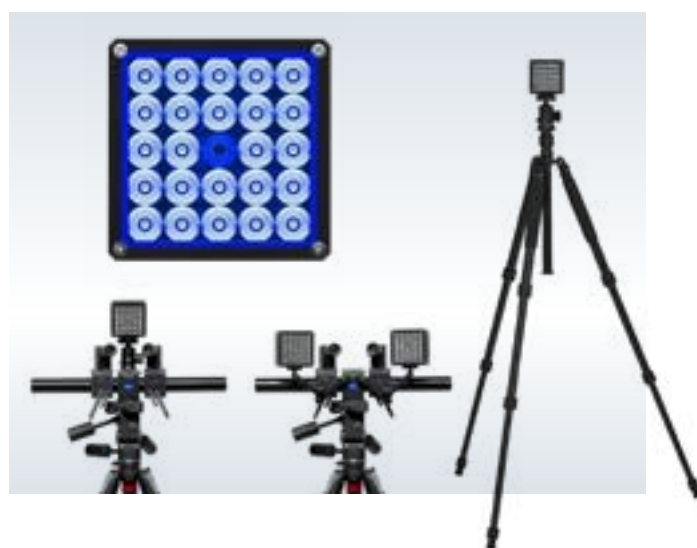
Precision illumination engineered for high-quality DIC measurements

## High-Intensity Blue Light

The LED System B45-15 is the dedicated illumination solution for ZEISS ARAMIS systems. Engineered to deliver stable, high-contrast lighting, it supports precise strain, displacement and deformation measurements across laboratory and industrial environments. Flexible integration allows operation via the ARAMIS Controller or as a stand-alone unit. Intuitive control of the lamp in stand-alone operation with two soft-touch buttons on the back side. If operated via the ARAMIS Controller, the LED System B45-15 enables pulsed illumination of specimens that lowers the energy transferred to the test object. The optional high-contrast polarizers significantly reduce reflections to optimize the accuracy of the measurement results.

## Benefits at a glance

- Blue Light Technology for improved contrast
- Selectable brightness levels and pulse mode
- Adjustable opening angle via magnetic diffusers (15°, 25°, 40°)
- Optional dual-use polariser (linear & circular)
- Integrated laser pointer for fast positioning
- Optimised for short exposure times and high recording rates



## Configuration options

- For ARAMIS Controller (supports up to 4 LED Systems B45-15)
- Stand-alone version with tripod and power supply
- Additional adapter for dual configuration
- Flexible mounting via ball head, Arca mount, articulated arm and T-slot systems
- Compatible with ZEISS CORRELATE software for dimming and pulsing control

## Technical Data

<b>Technology</b>	Blue light LED (~470 nm)
<b>Opening angle</b>	15° (no diffuser), 25° / 40° (with diffuser)
<b>Polarizer</b>	Optional, magnetic (linear & circular)
<b>Brightness settings</b>	30%   70%   100% (stand-alone operation), in 10% steps (only in combination with ARAMIS Controller)
<b>Power connection</b>	M12 (5-pin)
<b>Mount interface</b>	Arca mount
<b>Environmental range</b>	+5°C to +40°C (non-condensing)

<b>Dimensions</b>	90 × 90 × 62 mm (without polarizer) 90 × 90 × 78 mm (with polarizer)
<b>Weight</b>	700 g (without polarizer)   850 g (with polarizer)
<b>Protection class</b>	IP20
<b>Operating modes</b>	Continuous or pulsed operation
<b>Voltage and power consumption</b>	24 V, 45W
<b>Risk group</b> according to EN 62471	Risk group 2 (RG2)
<b>Laser protection class</b> according to DIN EN 60825-1	Laser Class 1 (wavelength: 650 nm / power: < 0,39mW)

Would you like to learn more?