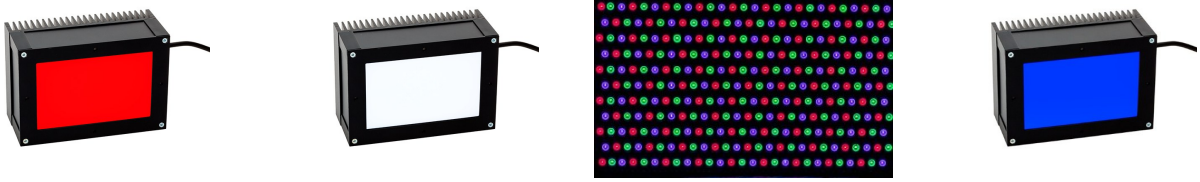
LED COLD LIGHT SOURCE

HEILAND VISION GERMANY GMBH



The Heiland LED cold light source replaces both – the light source of the enlarger and the filters.

Using LEDs with the primary colours red, green and blue allows controlling white light for focusing, as well as controlling any colour separately. A millions of different colours can be generated

The luminous colours are well adjusted and useful to expose modern multigrade, traditional graded papers and RA4 colour papers.

Precise switching on and off within 1/100 of a second is possible, so no shutter is necessary.

Thus reproducible printing is enabled in short and long terms.

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BENEFITS FOR THE USER

- Full contrast control from grade 00 to grade 5
- No light drift: stable light from 0.1 seconds on guarantees reproducible enlargement
- No fan necessary up to 8x10 inch light source size: The enlargement procedure takes place without vibration, noise, or dispersion of dust
- No heating of the negative which prevents focus shift
- Easy paper placement and simple tool handling during dodging due to the integrated red safelight.
- Variable exposure intensity for different magnification scales
- Replacing lamps is no longer necessary
- White light facilitates focusing
- Even illumination up to the corners through to several hundred LEDs. Light drop off caused by the lens can be compensated by an optional center filter
- Best solution for archives – no thermal strain of glass-plate negatives
- Long-lasting, solid metal construction
- A stabilised 24 V DC power supply avoids light drift during mains fluctuations.

TECHNICAL DATA

Power supply	24 V
Power consumption depends on the size of the light source	
35mm	20 W
6x9cm	25 W
4x5inch	50 W
5x7 inch	100 W
8x10 inch	200 W
White light intensity of 4x5”	Similar to a 250 W tungsten bulb
Exposure intensity	Adjustable, 0…-2 f-stops
Shortest exposure time	< 0,1 s, depends on timer only
Variation of light output:	
During +/- 10% mains voltage fluctuation	< 0.1 f-stop
During 2 minutes of exposure	< 0.1 f-stop
LED life time	> 10000 h
Colour control	Refer to separate control unit

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