



# ESP-2120 SERIES

PROFESSIONAL DLP® PROJECTORS  
WITH LED ILLUMINATION

## ) PRODUCT DESCRIPTION

With the latest ESP-2120 projector series, eyevis presents its popular LED-lit DLP® projectors with enhanced brightness levels. A luminance of up to 2000 Lumens opens a wide range of new possibilities for the devices, as well as numerous advantages for existing fields of application.

In addition to the increased brightness performance, the projectors offer a modern DisplayPort signal input and the possibility to display images with a refresh rate of 120 Hz, which provides smooth images with fast moving content or the possibility to display 3D content in active stereo mode. The new ESP-2120 series further comprises all the well-known features of the previous version, such as long-life LED light source for best image quality, black levels and long-term colour stability, a maintenance-free heat-pipe cooling system, and of course the eyevis-typical robust design.

The stable workmanship of our projectors makes them a first choice for demanding applications, e.g. in moving simulator installations. Different mounting possibilities allow their installation in almost any orientation.

### Available Versions:

- **ESP-LSXT+-2120** with SXGA+ resolution (1400 × 1050 pixel)
- **ESP-LUXT-2120** with UXGA resolution (1600 × 1200 pixel)
- **ESP-LHD-2120** with Full HD resolution (1920 × 1080 pixel)
- **ESP-LWXT-2120** with WUXGA resolution (1920 × 1200 pixel)



## ) AUTOMATIC COLOUR CALIBRATION

The white point of the LED light source can be measured at any time using the internal sensor. Each primary colour can be readjusted very precisely according to the measurement. This enables a very accurate alignment of multiple channels to guarantee a uniform colour representation. With the ACT (Automatic Colour Tracking) there is also an automatic tool available which constantly measures and readjusts colours and brightness values in a multi-channel application. The image signal is not affected and remains in its full colour depth. The adjustment procedure does not need any test patterns and can be performed at any time independent from the displayed images.



## ) ADVANTAGES OF ESP-2120 PROJECTORS

- The **life-time** of the LED illumination lasts up to 80,000 hrs (MTBF). Used in 24/7 operation this equals a period of almost six years.
- The long life-time of the LEDs allows **cost-effective** and **eco-friendly** operation since no bulbs containing harmful materials have to be replaced.
- With LED technology no colour wheels or UV filters are needed in the optical light path. This reduces **maintenance works** to a minimum.
- The innovative passive-active **cooling system** allows effective and maintenance-free operation. The cooling system is automatically controlled by the LED temperature and ambient temperature in order to secure the operating conditions of the system.
- The innovative control of the LEDs provides **infinitely variable dimming** of the projector to achieve perfect performance in different ambient lighting conditions. The image information is not affected and remains in full colour depth.
- A major advantage of eyevis LED projectors is the possibility to operate them **irrespective of their position** (portrait, landscape, or any other arrangement or orientation)
- A special complete encapsulation of the LEDs **prevents diffusing light** from leaving the projector. This allows the trouble-free operation of the projectors in very dark environments as in planetaria or night simulations.
- Thanks to the high-frequency control of the LEDs there are no “rainbow effects” or other image artefacts (e.g. multiple images) which typically appear with conventional DLP® projectors. In addition to that, this new technique allows high-quality digital **blending** in multi-channel systems.
- The permanent control of the LEDs with integrated early detection of faulty operations guarantees **highest availability** of the projectors. An optional monitoring-system provides additional information about the status of the projector.



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### ) TECHNICAL SPECIFICATION ESP-2120 SERIES

PROJECTOR	ESP-LSXT+-2120	ESP-LUXT-2120	ESP-LHD-2120	ESP-LWXT-2120
Technology:	Professional Single-Chip DLP® Projector			
Resolution:	SXGA+ (1400x1050 / 4:3)	UXGA (1600x1200 / 4:3)	HD (1920x1080 / 16:9)	WUXGA (1920x1200 / 16:10)
Brightness:	up to 1600-2000 Lumen (depending on projector version and individual settings)			
Brightness Uniformity:	≥95% (SUR25)			
Contrast:	up to 10.000:1 (Active LED Control)			
Colour Depth:	30-bit RGB			
Image Processing Latency:	~8,5 ms			
Supported Refresh Rates:	48 to 64 Hz (Non-Stereo), 120 Hz (Active-Stereo)			
Focus:	Focus, manual lens shift (option)			
LED Lifetime:	60,000 - 80.000 Hours (depending type of operation)			
Colour Management:	ACT - Auto-Colour Tracking, automatic adjustment/alignment of brightness and colours for all projectors in a multi-channel installation			

### STANDARD LENSES (OTHER SPECIAL LENSES AVAILABLE ON REQUEST)

#### EYE-ESP-OPT-110-144 (LS) → Art.Nr. 18691

Throw Ratio:	0.69:1 (SXGA+)	0.65:1 (UXGA)	0.65:1 (1080p)	0.65:1 (WUXGA)
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#### EYE-ESP-OPT-110-170 (LS) → Art.Nr. 18692

Throw Ratio:	0.84:1 (SXGA+)	0.8:1 (UXGA)	0.8:1 (1080p)	0.8:1 (WUXGA)
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#### EYE-ESP-OPT-110-223 → Art.Nr. 15556

Throw Ratio:	1.2:1 (SXGA+)	1.13:1 (UXGA)	1.13:1 (1080p)	1.13:1 (WUXGA)
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#### EYE-ESP-OPT-110-300 → Art.Nr. 15557

Throw Ratio:	1.57:1 (SXGA+)	1.48:1 (UXGA)	1.48:1 (1080p)	1.48:1 (WUXGA)
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#### EYE-ESP-OPT-110-100 → Art.Nr. 20016

Throw Ratio:	TBD	0.49:1 (UXGA)	0.49:1 (1080p)	0.49:1 (WUXGA)
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#### EYE-ESP-OPT-110-100-DOME → Art.Nr. 20156

Throw Ratio:	TBD	0.46:1 (UXGA)	0.46:1 (1080p)	0.46:1 (WUXGA)
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### CONNECTORS

Signal Input:	1x DisplayPort
Control/Communication:	2x RJ45 Serial (In / Out) 1x LAN

### MECHANICAL

Dimensions: (w/o optics)	617x288x257 mm (WxHxD)
Weight: (w/o optics)	14.5 kg
Shipping Size: (gross)	720 x 480 x 410 mm (WxHxD)
Shipping Weight: (gross)	18 kg

### ELECTRICAL

Input Voltage:	Normal Operation: 5A, ~100-240 V, 50-60 Hz
Power Consumption:	typ. ~210 W (max. 250 W) @ 100 V, ~2.7 A, 50 Hz; ~1.2 A, 240 V, 50 Hz
Thermal Load:	<716.55 BTU/h

### OTHERS

Accessory:	2 metre power cord, eyeDevice Setup Software, eyeDESIGN Software installation and operation, product documentation
Options:	- Cables and systems for signal transmission and distribution (high quality optical fibre systems, signal splitters, etc.) - Mounting products (e.g. 6-axis adjustment mount for projectors, Customized projector mounts) - Mechanic hard-edge blending masks

### ORDERING INFORMATION:

ESP-LSXT+-2120	Art.Nr. XXXXX (eyevis High-End LED DLP® Projector with SXGA+ Resolution 1400 x 1050 Pixel)
ESP-LUXT-2120:	Art.Nr. 24439 (eyevis High-End LED DLP® Projector with UXGA Resolution 1600 x 1200 Pixel)
ESP-LHD-2120:	Art.Nr. 24298 (eyevis High-End LED DLP® Projector with Full-HD Resolution 1920 x 1080 Pixel)
ESP-LWXT-2120:	Art.Nr. 24297 (eyevis High-End LED DLP® Projector with WUXGA+ Resolution 1920 x 1200 Pixel)



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As at: 18.04.2017 / V1.0 • Subject to change!

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