)eyevis

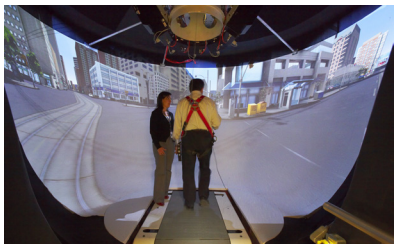
)espSERIES
EYEVIS PROJECTOR LINE

ESP-1000 SERIES

PROFESSIONAL DLP® PROJECTORS
WITH CLUSTER-LED TECHNOLOGY

) PRODUCT DESCRIPTION

With the new ESP-1000 Series eyevis presents its latest range of projectors with innovative Cluster-LED technology. Compared with Standard-LED projectors, these new professional Single-Chip DLP® projectors provide significantly enhanced brightness levels up to 1000 Lumens at a comparable power consumption.



Of course, the projectors from the new ESP-1000 Series come with all the well-known features of our other LED-lit DLP projectors, such as an LED-lifetime of more tha 60 000 hours, a robust metal housing, perfect black levels, best image quality and long-term stable colours.

The projectors from the ESP-1000 Series feature new Cluster-LEDs, where the active LED surface is divided into several sections. Besides higher light output this also guarantees that in the event of a failure of a single LED section, the image is preserved in almost its entire condition The robust design 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-LXT-1000** with XGA resolution (1024 × 768 pixel)
- **ESP-LSXT+-1000** with SXGA+ resolution (1400 × 1050 pixel)
- **ESP-LHD-1000** with Full HD resolution (1920 × 1080 pixel)
- **ESP-LWXT-1000** with WUXGA resolution (1920 × 1200 pixel)
- **ESP-LWQX-1000** with WQXGA resolution (2560 × 1600 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 optional 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-1000 PROJECTORS

- The **life-time** of the LED illumination lasts more than 60,000 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-1000 SERIES

PROJECTOR	ESP-LXT-1000	ESP-LSXT+-1000	ESP-LHD-1000	ESP-LWXT-1000	ESP-LWQX-1000
Technology:	Professional Single-Chip DLP® Projector				
Resolution:	XGA (1024 × 768)	SXGA+ (1400 × 1050)	HD (1920 × 1080)	WUXGA (1920 × 1200)	WQXGA (2560 × 1600)
Brightness:	Up to 800-1000 Lumen (depending on projector version and individual settings)				
Contrast:	Up to 1800 : 1 (depending on projector version)				
Aspect Ratio:	4:3 (XGA)	4:3 (SXGA+)	16:9 (HD)	16:10 (WUXGA)	16:10 (WQXGA)
Colours:	30-bit RGB	30-bit RGB	30-bit RGB	30-bit RGB	30-bit RGB
Image Processing Latency:	~8.5 ms	~8.5 ms	~8.5 ms	~8.5 ms	~8.5 ms
Focus:	Focus, manual lens shift (option)				
LED Lifetime:	> 60,000 hours	> 60,000 hours	> 60,000 hours	> 60,000 hours	> 60,000 hours

STANDARD LENSES (OTHER SPECIAL LENSES AVAILABLE ON REQUEST)

Lens Type:	EYE-ESP-OPT-110-144 (LS)				
Throw Ratio:	0.94 : 1 (XGA)	0.69 : 1 (SXGA+)	0.65 : 1 (1080p)	0.65:1 (WUXGA)	0.69 : 1 (WQXGA)
Lens Type:	EYE-ESP-OPT-110-170 (LS)				
Throw Ratio:	1.16 : 1 (XGA)	0.84 : 1 (SXGA+)	0.8:1 (1080p)	0.8:1 (WUXGA)	0.82 : 1 (WQXGA)
Lens Type:	EYE-ESP-OPT-110-223				
Throw Ratio:	1.67 : 1 (XGA)	1.2 : 1 (SXGA+)	1.13 : 1 (1080p)	1.13 : 1 (WUXGA)	1.21 : 1 (WQXGA)
Lens Type:	EYE-ESP-OPT-110-300				
Throw Ratio:	-	1.57 : 1 (SXGA+)	1.48 : 1 (1080p)	1.48 : 1 (WUXGA)	-

CONNECTORS

Signal Input:	1 × DVI-Single Link	1 × DVI-Single Link	1 × DVI-Single Link	1 × DVI-Single Link	1 × DVI-Dual Link
Control/Communication:	2 × 9-pin D-SUB RS232 (In / Out)	2 × 9-pin D-SUB RS232 (In / Out)	2 × 9-pin D-SUB RS232 (In / Out)	2 × 9-pin D-SUB RS232 (In / Out)	2 × RJ-45 Serial (In/Out)

GENERAL

Dimensions w/o Optics: (W×H×D)	617 × 288 × 257 mm	617 × 288 × 257 mm	617 × 288 × 257 mm	617 × 288 × 257 mm	617 × 288 × 257 mm
Weight w/o Optics:	14.5 kg	14.5 kg	14.5 kg	14.5 kg	14.5 kg
Shipping Size (W×H×D): (gross)	720 × 480 × 410 mm	720 × 480 × 410 mm	720 × 480 × 410 mm	720 × 480 × 410 mm	720 × 480 × 410 mm
Shipping Weight: (gross)	18 kg	18 kg	18 kg	18 kg	18 kg

ELECTRICAL

Input Voltage:	Nominal Operation: 5A, ~100 – 240 V, 50 – 60 Hz				
Max. Power Consumption:	max. 250 W @ 100 V, ~2,7 A, 50 Hz; ~1,2 A, 240 V, 50 Hz				
Typ. Power Consumption:	~210W	~210W	~210W	~210W	~210W
Typ. Thermal Load:	<716.55 BTU/h	<716.55 BTU/h	<716.55 BTU/h	<716.55 BTU/h	<716.55 BTU/h

OTHERS

Housing Colours:	Black	Black	Black	Black	Black
Accessories:	2 metre power cord, eyeDevice Setup Software, EC-LControl Colour Adjustment Software, product documentation				

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