



) EC-60-LHD

The new eyevis **EC-60-LHD** is a modular rear-projection cube with a screen diagonal of 60" and **full HD resolution (1920 x 1080 pixels)**. The EC-60-LHD is an innovative rear-projection cube LED technology for illumination. EC-60-LHD is a revolutionary development by eyevis and is completely produced in Germany. It is especially designed for applications which require a reliable 24/7 operation. The display technology is based on the DLP™ technology (Digital Light Processing) by TEXAS INSTRUMENTS. This superior technology produces high-definition images of the highest quality. Whether you want to display video data or more complex graphics – you will always get a pin sharp image.

eyevis attached much importance on the possibility to use their cubes even in critical ambient light conditions or other challenging safety-related problems. The HD version uses a 1-chip-DLP™ projector with a display resolution of 1920 x 1080 pixels. The MTBF of the LED lights lamps is indicated by the manufacturer with >55,000 hours (equals more than six years continuous operation). Thanks to the use of LED light technology, wear parts, such as colour wheels and traditional lamps are no longer necessary. The use of the DLP™ technology guarantees that there is no damage to the display, such as "ghost"-images or burn-in effects, even with continuous static images or fixed patterns.

Since the founding of the company ten years ago, eyevis has done a lot of pioneer work in the fields of continuously operating DLP™ applications. Also ergonomic requirements calculation is carried by the high image quality.

In numerous tests and comparisons the DLP™ technology turned out to be the most reliable for continuous operation. The lifetime of the DMD™ chips is about 150,000 hours (MTBF: 650 000 hours). Of course, all the other parts of the device share the same high standards. This results in low service and maintenance costs for our customers.

Digital DLP™-Rearprojection Cube

The EC-60-LHD has a screen size of 1344 mm width and 756 mm height and is available with a standard "seamless" frame (0,3 mm). Furthermore, many optimising options, guarantee stable image quality of all cubes for a long period of time through automatic adjustment of values for brightness, contrast and colour.

Therefore the new eyevis EC-series allows realising completely flexible display walls, providing the highest colour fidelity, a maximum of brilliance and outstanding reliability. Optionally, there is an additional scaler board available with additional input possibilities and further enhancing features.



) ADVANTAGES OF EYEVIS EC CUBES

Outstanding picture quality

- High contrast and best brightness
- Colour uniformity and wide viewing angle
- Latest DLP™ technology
- Best visibility in any lighting condition

Integrated optimising options

- Perfect system adjustment with eyeCube software
- Fast and easy parameter setting
- Many status information available
- Optional Multi-Cube Colour-Brightness Adjustment

Availability and reliability

- Extremely long lifetime of the LED lights
- Qualitative high value components
- Especially designed for continuous operation
- Highly efficient maintenance-free heatpipe cooling

Durability

- Durable and constant picture quality on all Cubes
- Modular, highly available display concept for 24/7 operation
- Low service and maintenance costs
- No wear parts as with traditional lamp systems

Ergonomics

- Very low noise level
- No rainbow effects and other DLP-typical artefacts
- Flexible image quality, adjustable parameters
- Completely dust-proof housing

Precision screen concept

- Perfect viewing angle
- Minimum gaps between cubes thanks to clipping method
- Very easy and fast installation

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Digital DLP™-Rearprojection Cube



) ADVANTAGES COMPARED TO STANDARD LAMP/COLOUR WHEEL SYSTEMS

- Shorter turning-on and start-up sequence compared to conventional lamp systems.
- Real flicker-free representation without rainbow effects and therefore a more ergonomic and fatigue-free observation.
- Higher lifetime with low tear and wear effects, no common wear parts like lamps and colour wheels as with traditional systems.
- Much lower colour and brightness drifts over the life-time of the system, compared with traditional lamp systems.
- High light output and higher lifetime through special colour-interleave method.
- Improved representation of moving images.
- Higher attention to detail, through a better colour gamut and colour space depth.

) TECHNICAL SPECIFICATIONS

Type:	EC-60-LHD, eyevisCube 60" LED with full HD
Description:	Digital 60" DLP™-rear- projection unit, stackable and addible, for data and video representation
Resolution:	1,920 x 1,080 Pixel (full HD)
Processing:	1080P / 0.95 inch DMD@LVDS
Brightness:	typ. 217 cd/m ² (max. 279 cd/m ²)
Contrast Ratio:	1.500:1
Brightness Uniformity:	≥95%
Image Size (WxH):	1344x756 mm (= 1540mm diagonal = 60,6")
Dimensions (WxHxD):	1344 x 956 x 820 mm
Weight:	ca. 90 kg
Input:	1 DVI
Projection Screen:	Seamless CrossPrism Screen, viewing angle horizontal & vertical 180°
Frame:	0.3 mm
Power Consumption:	250 Watt at 110/235 V
Lamp Life-Time:	55,000 h (in recommended operating conditions)
Software:	eyevisCubeManager

Environmental:

Operating Conditions:	recommended 15 - 25 °C; 5 - 35 °C; for Seamless Screen 18 - 25 °C; Storing: 0 - 50 °C
Humidity:	0% - 80 % not condensating
Altitude:	0 - 3000 m
Noise Level:	≤36dB

Options:

	• Scaler Board (internal split controller up to 10x10 Matrix, with 2x DVI, 2x RGB, 2x Video)
	• Multi-Cube Color-Brightness Adjustment
	• Network Board
	• Service and Maintenance Contracts



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