



## ) EC-50-LSXT

The new eyevis **EC-50-LSXT** is a modular rear-projection cube with a screen diagonal of 50" and **SXGA resolution (1,280 x 1,024 pixels)**. The EC-50-LSXT uses innovative LED technology for illumination. EC-50-LSXT 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 LSXT version uses a 1-chip-DLP® projector with a display resolution of 1,280 x 1,024 pixels. The MTBF of the LED lights lamps is indicated by the manufacturer with >60,000 hours. 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.

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.

The EC-50-LSXT has a screen size of 1000 mm width and 80 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

# ) EC-50-LSXT



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-50-LSXT, eyevisCube 50" with LED illumination and native SXGA resolution
Description:	Digital 50" DLP®-rear- projection unit, stackable and addible, for data and video representation
Resolution:	1,280 x 1,024 Pixel (SXGA) / Chip: DMD-Chip SXGA+ / LVDS 0.95"
Processing:	Texas Instruments DDP 3020 (MTBF DMD-Chip: approx. 650,000 hrs according to TI)
Brightness:	typ. 370 cd/m <sup>2</sup> (max. 410 cd/m <sup>2</sup> )
Contrast Ratio:	1,500:1 (max. 5,000:1 dynamic contrast)
Brightness Uniformity:	≥95%
Image Size (WxH):	1000 x 800 mm (ca. 50" screen diagonal)
Dimensions (WxHxD):	1000 x 1030 x 800 mm (stair-shaped)
Weight:	approx. 70 kg
Input:	1x DVI-D, optional with Scaler Board: 2x RGB, 2x DVI, 2x Composite Video, 1x Y/C, 1xYUV, 1x S-Video
Projection Screen:	Seamless CrossPrism Screen, viewing angle horizontal & vertical 180° (different screens on request)
Frame:	0.3 mm
Power Consumption:	250 Watt (typ.) at 110/240 VAC
Heat Dissipation:	853 BTU/h (typ.)
Median LED Lifetime:	>60,000 hrs under normal environmental conditions / L70B50 manufacturer information) (75,000 - 90,000 hrs in 'Low Power Operation Mode', i.e. additional 15,000 to 30,000 hrs depending on the amount of power reduction)
Software:	eyevisCubeManager

### ) Environmental:

Temperature Conditions:	10-40° C / recommended 15 - 25 °C / for Seamless Screens 18 - 25 °C / Storage: 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)
• ACT - Auto-Colour Tracking, auto-adjustment of brightness and colours for each display according to the adjusted values
• EYE-MSP - Matrix-Shading-Processor integrated in cube
• EYE-SCP - Shading and Colour Processor integrated in cube
• EC-MAS motorized geometry adjustment via IR remote control or PS2
• Network Board
• Service and Maintenance Contracts
• Different Basement Options: Standard Basement, Basements on Wheels, Basements on Rails, Anti-Vibration Basements



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