



) EC-50-XT

Digital DLP® Rear Projection Cube

The eyevis **EC-50-XT** is a modular rear-projection cube with a screen diagonal of 50". The EC-series is a proprietary development from 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 XGA version uses a 1-chip-DLP® projector with a display resolution of **1024 x 768 pixels**.

The MTBF of the 100-120 Watts lamps is indicated by the manufacturer with 8000-10000 hours. Thanks to the use of the DLP™ technology 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.

The EC-50-XT has a screen size of 1000 mm width and 750 mm height and is available with a standard "seamless" frame (0,3 mm). In order to ensure the highest possible availability for 24/7 operation, there is an optional double lamp system available for automatic lamp change-over. Furthermore, automatic brightness control (DSC) is included to compensate for the diverging brightness of the single modules caused by different ageing behaviour of the lamps. Thus a stable brightness of the cube-wall is ensured for a long period.

Therefore the eyevis EC-series allows to realise completely flexible display walls, providing the highest colour fidelity, a maximum of brilliance and outstanding reliability. Optionally, there is an additional DVI input available or a scaler board with 2x RGB, 2x DVI, 2x Composite Video, 1x Y/C, 1xYUV and 1x S-Video.

) ADVANTAGES OF EYEVIS EC CUBES

Outstanding picture quality

- High contrast and best brightness
- Colour uniformity and wide viewing angle
- Autom. colour adjustment and ambient light absorbing
- Latest DLP® technology

Integrated optimising options

- Dynamic brightness control
- Fast and easy parameter setting
- Intelligent colour wheel
- Intelligent lamp system

Availability and reliability

- Redundancy through double lamp system
- Qualitative high value components
- High MTBF
- High user-friendliness

Durability

- Durable and constant picture quality on all Cubes
- Modular, highly available display concept for 24/7 operation
- Low service and maintenance costs
- Long life color wheel

Ergonomics

- Very low noise level
- No chromatic dispersion
- Flexible image quality, adjustable to ambient light conditions
- Perfect display of video signals

Precision screen concept

- Perfect viewing angle
- Minimum bar thanks to clipping method
- Very easy and fast installation
- Different screen alternatives

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) TECHNICAL SPECIFICATIONS

Type	EC-50-XT eyevisCube 50" XGA
Description	Digital 50" DLP®-rear-projection unit, addible and stackable, for data and video representation
Resolution	1024 x 768 Pixel (XGA) / Chip: DMD-Chip XGA / DDR
Brightness	120W Lamp: typ. 560 cd/m ² (max. 840 cd/m ²) / 150W Lamp: typ. 750 cd/m ² (max. 1130 cd/m ²)
Contrast Ratio	typ. 1300:1 / max. 5000:1
Brightness Uniformity	>95%
Image Size (WxH)	1000 x 750 mm (ca. 50" screen diagonal)
Dimensions (WxHxD)	1000 x 980 x 750 mm (step-shaped housing)
Weight	approx. 65 kg
Input	1x DVI-D, optional with Scaler Board: 2x RGB, 2x DVI, 2x Composite Video, 1x Y/C, 1xYUV, 1x S-Video
Pixel Frequency	up to 173 MHz
Vertical Frequency	48 - 62 Hz genlock compatible, internal: 96 - 124 Hz
Projection Screen	Seamless Cross Prism, viewing angle horizontal & vertical 180° (other screens available on request)
Frame	0.3 mm
Power Consumption	180 W at 110/235 V with 100 - 120 Watt Lamp
Lamp Consumption	100-120 W, alternative: 132-150 W
Lamp Life-Time	approx. 8000-10000 h at 100-120 Watt (manufacturer Information MTBF) approx. 6000-8000 h at 132-150 Watt (manufacturer information MTBF)
Software	eyevisCubeManager

) Environmental

Operating Conditions	recommended 18 - 25 °C; 10 - 35 °C; for Seamless Screen 18 - 25 °C; Storing: 0 - 50 °C
Humidity	0% - 80 % not condensating
Altitude	0 - 3000 m
Noise Level	≤36dB
Thermal Load	180 Watt

) Options

- Automatic Double-lamp System cold Stand-by (optional: hot Stand-by), includes 2-channel power supply and lamp ballast
- Scaler Board (internal split controller up to 10x10 Matrix, with 2x DVI, 2x RGB, 2x Video)
- Different Screen Alternatives
- Additional DVI Input
- Multi-Cube Color-Brightness Adjustment
- Front Maintenance Option (screen-side opening mechanism for service and maintenance works)
- Network Board
- EYE-DUST, anti-dust housing
- Lamp Leasing Agreement
- Service and Maintenance Contracts



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