



## ) EC-50-XT

### Digital DLP™-Rearprojection 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 LightProcessing) 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 as 8000-10000 hours. Due 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 2 x RGB / Video (Composite or Y/C).

## ) 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 24/7operation
- Low service and maintenance costs
- Long life color wheel

### Ergonomics

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

### Precision screen concept

- Perfect viewing angle
- Minimum bar thanks to clipping method
- Very easy and fast installation
- Different Sscreen 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:	750 ANSI Lumen / automatic brightness control
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. 60 kg
Input:	1 DVI, optional with Scaler Board: 2x RGB, 1x DVI (up to 1600 x 1200 Pixel), 1x Composite Video, 1x Y/C
Pixel Frequency:	up to 173 MHz
Vertical Frequency:	48 - 62 Hz genlock compatible, internal: 96 - 124 Hz
Projection Screen:	Seamless Black Bead Screen, viewing angle horizontal & vertical 180°
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:	<30dB
Thermal Load:	180 Watt

### Options:

	<ul style="list-style-type: none"> <li>• Automatic Double-lamp System cold Stand-by (optional: hot Stand-by), includes 2-channel power supply and lamp ballast</li> <li>• Scaler Board (internal split controller up to 10x10 Matrix, with 2x DVI, 2x RGB, 2x Video)</li> <li>• Different Screen Alternatives</li> <li>• Additional DVI Input</li> <li>• Multi-Cube Color-Brightness Adjustment</li> <li>• Front Maintenance Option (screen-side opening mechanism for service and maintenance works)</li> <li>• Network Board</li> <li>• EYE-DUST, anti-dust housing</li> <li>• Lamp Leasing Agreement</li> <li>• Service and Maintenance Contracts</li> </ul>
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