eyevis
PERFECT VISUAL SOLUTIONS

) EC-65-SXT

Digital DLP® Rear Projection Cube

The eyevis **EC-65-SXT** is a modular rear-projection cube with a screen diagonal of 65". The new 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 **SXGA** version uses a 1-chip-DLP® projector with a display resolution of **1280 x 1024 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.

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-65-SXT uses two new technologies for even better image representation than before. BrilliantColor™ allows an improved colour representation; TrueVision™ optimises the display of video signals. In addition to that the device uses the latest generation data processors by TEXAS INSTRUMENTS which provide better characteristics for image processing, system control and data formatting.

The EC-65-SXT has a screen size of 1280 mm width and 1024 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

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

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

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

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

Precision screen concept
- Perfect viewing angle
- Minimal gaps thanks to clipping method
- Very easy and fast installation
- Different Sscreen alternatives

) EC-65-SXT

Digital DLP® Rear Projection Cube

) TECHNICAL SPECIFICATIONS

Type	EC-50-SXT eyevisCube 50" SXGA
Description	Digital 50" DLP®-rear-projection unit, addible and stackable, for data and video representation
Resolution	Image Resolution 1280 x 1024 Pixel (SXGA) / Chip: DMD™-Chip SXGA+ / LVDS 0,95"
Processing:	Texas Instruments DDP 3020
Brightness	120W Lamp: typ. 315 cd/m² (max. 475 cd/m²) / 150W Lamp: typ. 425 cd/m² (max. 635 cd/m²)
Contrast Ratio	typ. 1600:1 / max. 5000:1
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. 80 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 screen, 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	8000-10000 h at 100-120 Watt (manufacturer information MTBF) 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
	• Network Board
	• EYE-DUST, anti-dust housing
	• Lamp Leasing Agreement
	• Service and Maintenance Contracts

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