eyevis UK Ltd
PERFECT VISUAL SOLUTIONS

) EC-67-SXT+

Digital DLP™-Rearprojection Cube

The eyevis **EC-67-SXT+** is a modular rear-projection cube with a screen diagonal of 67". 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 **1400 x 1050 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 new EC-67-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-67-SXT+ has a screen size of 1364 mm width and 1023 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 new 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

) EC-67-SXT+

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) TECHNICAL SPECIFICATIONS

Type:	EC-67-SXT+ eyevisCube 67" SXGA+
Description:	Digital 67" DLP™-rear-projection unit, stackable and addible, for data and video representation
Resolution:	1400 x 1050 Pixel (SXGA+) / Chip: DMD-Chip SXGA+ / LVDS 0.95"
Processing:	Texas Instruments DDP 3020
Brightness:	1000 ANSI Lumen / Automatic brightness control
Contrast Ratio:	typ. 1600:1 / max. 5000:1
Brightness Uniformity:	>95%
Image Size (WxH):	1364 x 1023 mm (ca. 67" screen diagonal)
Dimensions (WxHxD):	1364 x 1348 x 830 mm (step-shaped)
Weight:	approx. 90 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 Meter
Noise Level:	<30dB
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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