



## EC-LHD-1004

FULL HD 60/70-INCH DLP® REAR-PROJECTION CUBES  
WITH SINGLE-MODULE-DESIGN LED-PROJECTION-UNIT



### ) PRODUCT DESCRIPTION

DLP® cubes from eyevis' **EC-LHD-1004 Series** are modular rear-projection cubes with **screen diagonals of 60 inch** (ca. 152 cm) or **70 inch** (ca. 177 cm) and **Full HD resolution (1920 × 1080 pixels)**.

The 1004 series represents the standard versions from eyevis' well-known EC-Cube series of LED-lit rear-projection cubes. In order to reduce the number of parts inside the devices, we simplified the product design for the 1004 series through the integration of all interior components in a single-module housing.

During the simplification of the product design all high-quality features of the eyevis DLP cubes remained untouched. These include the robustness, the long-term stability, the seamless monitor mounting and the flexible modularity. In addition, the less complex construction design enables us to offer the 1004 series at a competitive price level.

The proven characteristics of the high-quality eyevis DLP cubes regarding image quality, brightness, mechanical robustness and thin bezel were also retained in the EC-1004 series. The new cubes come with stackable housing which enables the installation of video walls without additional mounting structures. The modular design of the cubes thereby allows for a fast and uncomplicated setup. The EC-1004 series features our innovative "seamless" screen mounting with Discrete Screen Clamp technology to enable video walls with smallest gaps between the screens.

The cubes from the EC-1004 Series are available with XGA, SXGA+, Full-HD, WUXGA and WQXGA resolutions.

### ) THE ADVANTAGES AT A GLANCE

#### DURABILITY

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

#### EASY-HANDLING CONCEPT

- Projection unit in single-module design
- Fast installation and maintenance: the projection unit can be installed or dismantled to the front or the rear side within a few simple steps
- „Seamless“ screen bracket with discrete screen clamp technology

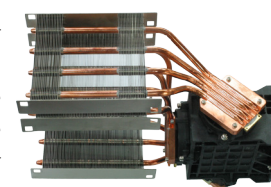
#### OUTSTANDING IMAGE QUALITY

- High contrast and best brightness
- Colour uniformity and wide viewing angle
- Best visibility in any lighting condition

### ) INNOVATIVE COMPONENTS

#### HEATPIPE COOLING SYSTEM

The EC-1004 Series continues to rely on our innovative heatpipe cooling system, which has proven its reliable and highly effective function in thousands of cubes in diverse operating conditions. In addition to that, our heatpipes require absolutely no servicing and contain no toxic liquids.



#### PROJECTION-UNIT IN SINGLE-MODULE DESIGN

All electric, optical and electronic components as well as the cooling system are integrated completely into a closed projection unit including a network interface and colour control (ACT-internal). This unit can be inserted into or removed from the cube housing in a few simple steps. This speeds the setup and reduces the downtime during maintenance.



#### INTEGRATED OPTIMISING OPTIONS

- Perfect system adjustment with eyeDESIGN Setup software
- Fast and easy parameter setting
- Optional Multi-Cube Auto-Colour-Tracking (ACT)

#### PRECISION SCREEN CONCEPT

- Different screen options available to suit any requirements
- Minimum gaps between cubes thanks to clipping method
- Very easy and fast installation

#### AVAILABILITY AND RELIABILITY

- Extremely long lifetime of the LED lights
- Qualitative high value components
- Highly efficient maintenance-free heatpipe cooling



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WITH SINGLE-MODULE-DESIGN LED-PROJECTION-UNIT



### TECHNICAL SPECIFICATIONS

60-inch / EC-60-LHD-1004		70-inch / EC-70-LHD-1004	
<b>Type:</b>	60-inch / EC-60-LHD-1004	70-inch / EC-70-LHD-1004	
<b>Description:</b>	Digital 60 inch DLP®-rear-projection unit with Cluster-LED illumination, stackable and addible, for data and video representation		Digital 70 inch DLP®-rear-projection unit with Cluster-LED illumination, stackable and addible, for data and video representation
<b>Resolution:</b>	1920 × 1080 Pixel (Full HD/16:9) / Processing: 1080P / 0.95 inch DMD@LVDS		1920 × 1080 Pixel (Full HD/16:9) / Processing: 1080P / 0.95 inch DMD@LVDS
<b>Brightness<sup>1</sup>:</b>	<b>HB Screen:</b>	<b>ISE Screen:</b>	<b>HB Screen:</b>
<b>Full Brightness Mode:</b>	884 cd/m <sup>2</sup> (max.)	352 cd/m <sup>2</sup> (max.)	723 cd/m <sup>2</sup> (max.)
<b>Normal Operation Mode:</b>	759 cd/m <sup>2</sup> (typ.)	297 cd/m <sup>2</sup> (typ.)	620 cd/m <sup>2</sup> (typ.)
<b>Contrast Ratio:</b>	1500:1 (typ. / static contrast) / up to 10.000:1 (active LED control)		1500:1 (typ. / static contrast) / up to 10.000:1 (active LED control)
<b>Brightness Uniformity:</b>	≥95% (SUR25)		≥95% (SUR25)
<b>Image Size (WxH):</b>	1344 × 756 mm (ca. 60 inch / 152 cm screen diagonal)		1550 × 872 mm (ca. 70 inch / 177 cm screen diagonal)
<b>Dimensions (WxHxD):</b>	1344 × 956 × 820 mm		1550 × 1132 × 833 mm
<b>Weight:</b>	85 kg (incl. housing, projector and screen element)		ca. 100 kg (incl. housing, projector and screen element)
<b>Input:</b>	1x DVI-D (Signal), 2x RJ45 (RS232 Control IN/OUT), 1x RJ45 (Ethernet), 1x Feature Connector, 1x 5V Power Out for optical fibre power supply		1x DVI-D (Signal), 2x RJ45 (RS232 Control IN/OUT), 1x RJ45 (Ethernet), 1x Feature Connector, 1x 5V Power Out for optical fibre power supply
<b>Projection Screen:</b>	Standard Screen: Improved Screen Element (ISE-Screen) / other screen types available on request		Standard Screen: Improved Screen Element (ISE-Screen) / other screen types available on request
<b>Frame:</b>	0.3 mm		0.3 mm
<b>Power Consumption<sup>1</sup>:</b>	Full Brightness Mode: 270 W (max.)	Normal Operation Mode: 185 W (typ.)	Reduced Power Mode: 135 W
<b>Heat Dissipation:</b>	631 BTU/h (@ Normal Operation Mode)		631 BTU/h (@ Normal Operation Mode)
<b>Median LED Lifetime:</b>	≥60,000 hrs (under normal environmental conditions on 60% brightness) (≥80,000h based on 50% brightness / ≥100,000h on 30% brightness; i.e. additional 15,000 to 40,000 hrs depending on the amount of power reduction / L70B50 manufacturer information)		≥60,000 hrs (under normal environmental conditions on 60% brightness) (≥80,000h based on 50% brightness / ≥100,000h on 30% brightness; i.e. additional 15,000 to 40,000 hrs depending on the amount of power reduction / L70B50 manufacturer information)
<b>Software:</b>	eyeDESIGN Software		eyeDESIGN Software

### ENVIRONMENTAL

<b>Temperature Conditions:</b>	Operation: 10-40° C / recommended 15-25 °C / for Seamless Screens 18-25 °C Storage: 0 - 50 °C	Operation: 10-40° C / recommended 15-25 °C / for Seamless Screens 18-25 °C Storage: 0 - 50 °C
<b>Humidity:</b>	0% - 80 % not condensing	0% - 80 % not condensing
<b>Altitude:</b>	0 - 3000 m	0 - 3000 m
<b>Noise Level:</b>	≤ 36 dB	≤ 36 dB
<b>Ingress Protection:</b>	IP 50	IP 50

### ORDERING INFORMATION

<b>Item Numbers:</b>	21075 -> EC-60-LHD-ISE-1004 (60-inch Cube, Full-HD Resolution & Improved Screen Element)	21077 -> EC-70-LHD-ISE-1004 (70-inch Cube, Full-HD Resolution & Improved Screen Element)
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### OPTIONS

- Different screen versions to suit the requirements of different fields of application (viewing angles, brightness uniformity, etc.)
- ACT - Auto-Colour Tracking, auto-adjustment of brightness and colours for each display according to the adjusted values
- Service and Maintenance Contracts
- Different Basement Options: Standard Basement, Basements on Wheels, Basements on Rails, Anti-Vibration Basements

<sup>1</sup> Full Brightness Mode -> full LED brightness with calibrated colours / Normal Operation Mode -> approx. 70% of LED brightness with calibrated colours