



EC-LHD-TRP-WVF

50-/60-INCH LED-LIT DLP® REAR-PROJECTION CUBES
BASED ON TI'S TRP CHIP ARCHITECTURE



) PRODUCT DESCRIPTION

The cubes from eyevis' new TRP series are the world's first DLP® rear-projection cubes based on Tilt&Roll Pixel architecture. Compared to other chips of the same resolution, **the TRP design provides higher brightness with lower power consumption.**

Thanks to the TRP chip design, we were able to develop a rear-projection cube with a highly efficient brightness to power consumption ratio. Providing sufficient brightness for most cube application with a power consumption of **less than 70 Watt** sets a real mile-stone in the history of DLP-based rear-projection cube.

At the same time, the compact architecture of the light engine gave us the possibility to simplify the design to a real cube-shaped housing which eases setup and contributes to the entry-level price of the cubes from the new series.

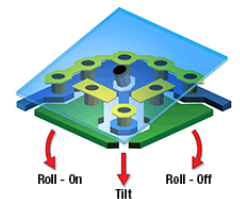
) THE ADVANTAGES AT A GLANCE

- **Very low power consumption (typ. 63W / max. 98 W)**
- **Pixel-Accurate Display (NO Warping, high image quality)**
- **Mechanical robust and self-supporting (no building-kit)**
- **„Real“ Cube housing (no step, simple installation)**
- **Engine in „Single-Module-Design“ (no loose components inside the housing)**
- **Fast replacement of the entire engine= very service-friendly (short MTTR)**
- **Low, entry-level Price**

) INTEGRATED CONCEPT

DLP® TRP PIXEL ARCHITECTURE

TRP (Tilt & Roll Pixel) is an innovative pixel architecture based on proven Texas Instruments DLP projection technology. TRP uses an optimized approach to tilt the individual micro-mirrors on the DMD chip, which allows smaller and more efficient designs of the projection engines, still maintaining the proven quality, long-term 24/7 reliability and all other well-known advantages of DLP based systems. The more efficient optical design does not only result in a smaller form factor of the projector, but also in less power consumption and heat dissipation, keeping up brightness at sufficient values for control room installations at the same time.



Each of these micro-mirrors measures less than one-fifth the width of a human hair

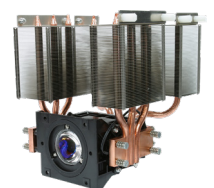
PROJECTION-UNIT IN SINGLE-MODULE DESIGN

All electric, optical and electronic components as well as the cooling system are integrated completely into a closed projection unit. This unit can be inserted into or removed from the cube housing in a few simple steps. This speeds up the setup and reduces the downtime during maintenance.



HEATPIPE COOLING SYSTEM

eyevis TRP cubes 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.





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TECHNICAL SPECIFICATIONS

EC-50-LHD-TRP-WVF

EC-60-LHD-TRP-WVF

Description:	LED-lit 50" DLP® rear-projection cube based on TI's TRP pixel architecture	LED-lit 60" DLP® rear-projection cube based on TI's TRP pixel architecture
Resolution:	1920 × 1080 Pixel (Full HD / 16:9), native pixel-accurate display (NO Warping -> high image quality)	
Processing:	1080p / TRP-DMD	
Brightness*: (with WVF Screen)	Full Brightness Mode*: 550 cd/m² (max.) Normal Operation Mode*: 420 cd/m² (typ.)	Full Brightness Mode: 420 cd/m² (max.) Normal Operation Mode: 300 cd/m² (typ.)
Contrast Ratio:	up to 10.000:1 (active LED control)	
Brightness Uniformity:	≥95% (SUR25)	
Display Area (W×H):	1107 × 622,6 mm (ca. 50 inch / ca. 127 cm screen diagonal)	1328,2 × 747 mm (ca. 60 inch / ca. 152 cm screen diagonal)
Dimensions (W×H×D):	1107 × 622,6 × 714 mm	1328,2 × 747 × 790 mm
Weight:	47 Kg	59 kg
Input:	Signal: 1x DVI Communication: RS232 (in and out for daisy chain), 1x LAN	
Supported Frame Rates:	48 to 64 Hz	
Colour Control:	Automatic colour adjustment	
Projection Screen:	Standard: WVF Screen (Wide View FEL Screen)	
Screen Gap:	≤ 0,3 mm	
Power Consumption*:	Full Brightness Mode*: 98 W (max.) Normal Operation Mode*: 63 W (typ.)	
Median LED Lifetime:	>60,000 hrs under normal environmental conditions / L70B50 manufacturer information) (75,000 - 90,000 hrs in 'Low Power Operation Mode', i.e. additional 15,000 to 30,000 hrs depending on the amount of power reduction)	
Software:	eyeDesign Software	

ENVIRONMENTAL

Temperature Conditions:	10-40° C recommended 15 - 25 °C for Seamless Screens 18 - 25 °C Storage: 0 - 50 °C
Humidity:	0% - 80 % not condensing
Altitude:	0 - 3000 m

ORDERING INFORMATION

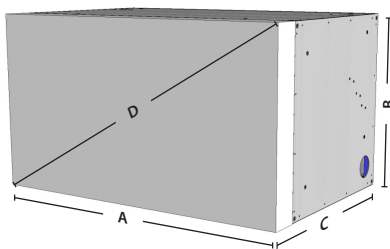
EC-2004 Series DLP® Cubes:	23732 -> EC-50-LHD-TRP-WVF (50" LED-Lit DLP TRP Cube, Full HD, WVF Screen)	23733 -> EC-60-LHD-TRP-WVF (60" LED-Lit DLP TRP Cube, Full HD, WVF Screen)
Input Box (Option):	23979 -> EC-INPUTBOX-V2 (Input Box for eyevis 1004/2004/TRP Series DLP® Rear-Projection Cubes)	

OPTIONS

- Steel basement, different heights, customizable to required height of the lower edge of the video wall
- Basement on rails for installations close to the building wall (rails can be hidden in double-floors)
- Inputbox with inputs for Video, Y/C, DVI-I (digital/analogue), HDMI, DisplayPort, RS232 / Outputs for DisplayPort, RS232 / internal Matrix-Scaler up to 10 × 10
- Different adapters for HVAC connection

*) Full Brightness Mode -> full LED brightness with calibrated colours / Normal Operation Mode -> approx. 70% of LED brightness with calibrated colours

DIMENSIONS



	EC-50-LHD-WVF-TRP	EC-60-LHD-WVF-TRP
A	1107 mm	1328.2 mm
B	622.6 mm	747 mm
C	714 mm	790 mm
D	ca. 50 inch / ca. 127 cm	ca. 60 inch / ca. 152 cm



eyevis GmbH

Hundsschleestr. 23 • 72766 Reutlingen • Germany
Phone: + 49 (0) 7121 43303 - 0 • Fax: + 49 (0) 7121 43303 - 22
www.eyevis.de • info@eyevis.de

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