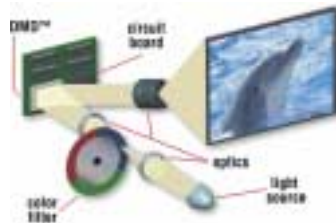




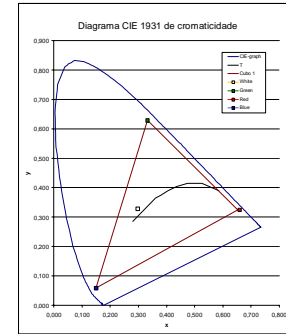
ME multiView – visual systems by Mauell

e.Cube cl – DIGITAL REAR-PROJECTION CUBES WITH DLP® TECHNOLOGY

Video walls are a composition of several special monitors, denominated rear-projection cubes, which are freely align and pile able forming a single giant screen. A managing controller connected to all cubes transforms this monitor arrangement into a single logic monitor (desktop).



Regarding screen aspect ratio the ME multiView cl offers two basic types of rear-projection cubes:



e.Cube cl-h2: with the modern 16 x 9 aspect ratio. This product line is extremely appropriate for projects in spaces with low ceilings and for applications with high pixel density.

The adopted screens are of DNP brand. The type is Black Bead. They are anti-reflective with ambient light absorption over 95%. They offer thermal size compensation and viewing angles of 160° horizontally and of 80° vertically. The screen separation is of only 0.4 mm, with the exclusive *HM seamless* technology. The screen manufacturing considers ambient conditions according to the destination market.



Each rear-projection cube contains a rear-projector generating images reflected on professional front screens via first surface mirrors. The screen manufacturing follows rigid criteria according to the ambient conditions (mean temperature and humidity) of each installation world region.



e.Cube cl-xa: with the classical aspect ratio of 4 x 3.

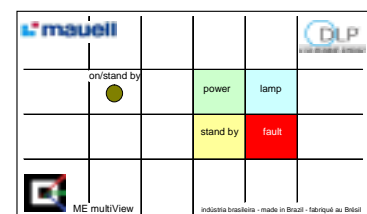
The cubes allow individual or collective brightness, color gain and geometry adjustments, besides lamp and communication commands, among others. The software tool used for these tasks is denominated **e.Tool M-WALL**. The micro-controlled cube managing system performs intelligent fan and temperature supervision over three zones, generating pre-alarms and critical alarms. It also supervises lamps with local and remote signaling. It performs the communication via RS485 interface for data exchange, among many other functions. It operates, also, the exclusive on screen led, which signalizes on the front screen cube alarms and

Mauell rear-projection cubes belong to the ME multiView cl product family and have the general denomination of e.Cube cl.

This product family consists in standard cubes for scalable assembly (cluster). It has the differential of long equipment lifetime, being well suited for continuous 24 x 7 operation. The



Mauell's rear-projection cubes have the differential of a first class optical project, of high color saturation, of high brightness and of an optimum contrast ratio. The adopted color wheels are pure RGB, without white boosting.



adopted rear-projection technology is DLP® (digital light processing), the world leading professional imaging technology, which grants high durability and enormous operational stability to these professional products. The imaging principle is reflective on micro mirrors, which are deflectable electronically. Each mirror (pixel) receives commands defining the real time mix of basic colors individually. In this fashion 16.78 color combinations can be digitally generated.



The color fidelity is checked for each projector by verification of all color points coordinates on the CIE 1932 chromaticity diagram. In this fashion a high color fidelity to the original image is achieved, without paling effects common on optical projects which favor only brightness.

statuses.

The rear cube operating panel presents itself as an elegant black mosaic tableau with one push button "on / stand by" and led back lit indicators ("power" green, "stand by" yellow, "lamp" blue and "fault" red) as a first aid for local diagnosis.

e.Cube cl rear-projection cube technical specification

	e.Cube cl-h2-1u-50"-BB-0.4	e.Cube cl-h2-1u-61"-BB-0.4	e.Cube cl-xa-1d-50"-BB-0.4	e.Cube cl-xa-1d-67"-BB-0.4
Projection technology:	DLP™ from Texas Instruments, 100% digital			
Screen types:	DNP Black Bead with 160° horizontal and 80° vertical viewing angles; DNP Alpha; HM 0.4 mm seam			
Power supply:	110/127 or 220/240 Vac at 50 or 60 Hz			
Ambient conditions:	24 °C +/- 5% up to 1000 m above sea level; relative air humidity: 60%			
DMD (digital micromirror device) chip:	Mustang HD2+ LVDS, 0.9", 12°			
DMD MTBF:	more than 150.000 hours			
Mean lamp lifetime:	up to 6000 hours			
Aspect ratio:	16 x 9			
Resolution:	1280 x 720			
Input signals:	digital graphical DVI-D, VGA multisynch, S-Video and video composite			
Brightness:	850 ANSI lumens			
Contrast ratio:	1100:1			
Lamp:	VIP 150W (high pressure)			
Power consumption:	240 VA max.			
Screen sizes:	1110 mm x 624,8 mm	1360 mm x 765 mm	1000 mm x 750 mm	1364 mm x 1023 mm
Cube depth:	700 mm	790 mm	595 mm	799 mm
Weight:	60 kg	70 kg	58 kg	85 kg



Subject to changes without prior notice.