)eyevis
PERFECT VISUAL SOLUTIONS

RELIABLE LED-LIT DLP® REAR-PROJECTION CUBES
PERFECT VISUAL SOLUTIONS

)ecCUBE®
EYEVIS REAR PROJECTION LINE

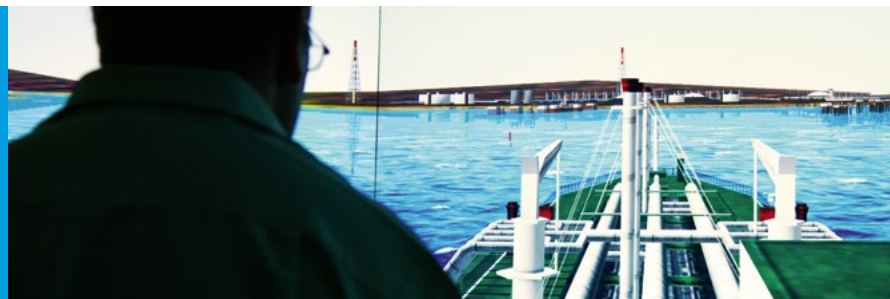# OUR ecCUBE® SERIES
– DEVELOPED FOR DEMANDING APPLICATIONS:

)ecCUBE®
EYEVIS REAR PROJECTION LINE

CONTROL

PRESENTATION & INFORMATION

BROADCAST

VR & SIMULATION

HIGH-END

ecCUBE-1000

Complete functionality for demanding applications

BASIC

ecCUBE-1004

Optimized product design for flexible handling

SUPER-SLIM

ecCUBE-SLIM

Sleek design, diverse possibilities for installation and application

)ecCUBE®
EYEVIS REAR PROJECTION LINE

HIGHEST-QUALITY PRODUCTS
DLP® REAR-PROJECTION CUBES – MADE IN GERMANY

DLP® REAR-PROJECTION CUBES WITH LED-LIGHT-SOURCE
– FIRST CHOICE FOR PROFESSIONAL VIDEO WALL SYSTEMS

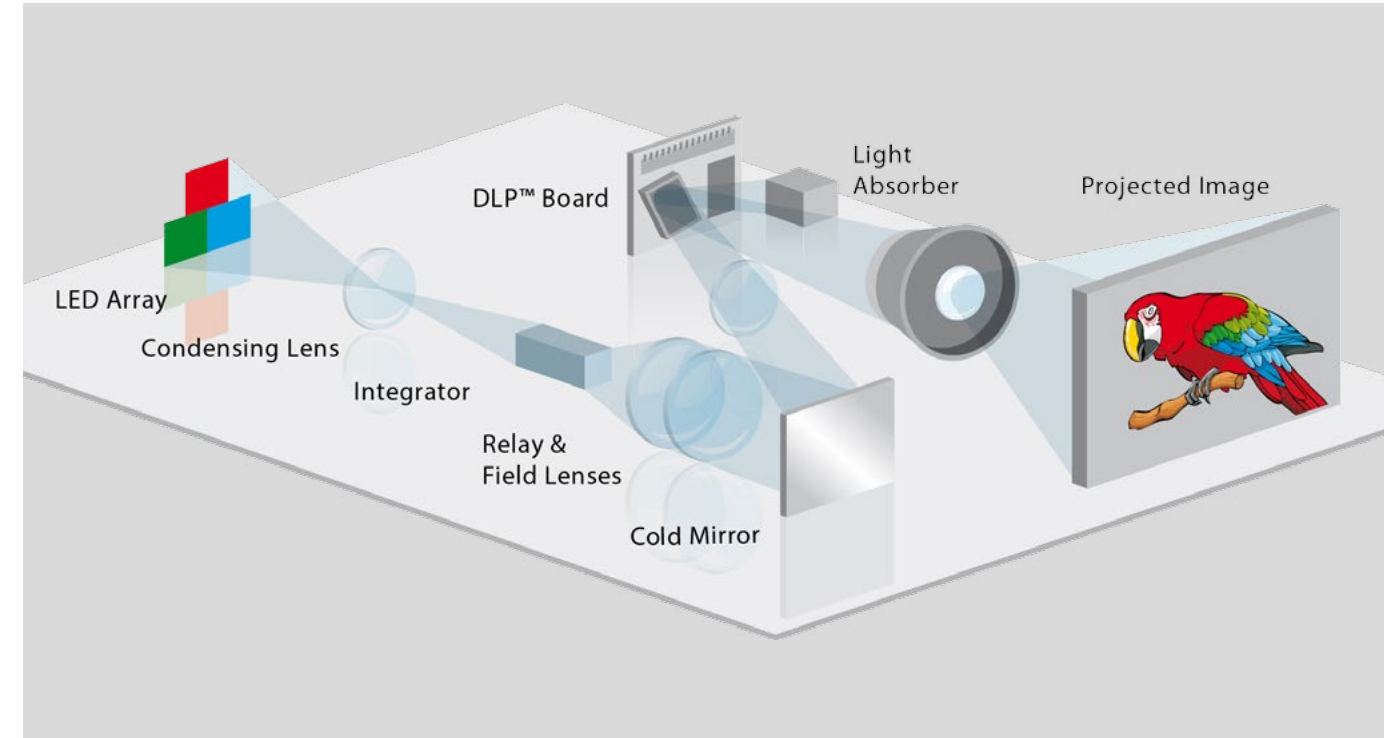### THE REAR-PROJECTION CUBES OF THE
ecCUBE® SERIES

eyevis cubes with the proven DLP®-technology are ranked first, when it comes to professional video wall systems. They are completely unsusceptible to the so called burn-in-effect, a lasting, negative influence on image quality through the presentation of static contents. Moreover, the DLP® cubes provide the only possibility to assemble practically "seamless" video walls for permanently operating applications.

Together with their outstanding color and brightness features, this makes our rear-projection cubes the ideal solution for large scale video systems in demanding areas of application such as control rooms and security centers. The brightness values of the ecCUBE series achieved through the new cluster-LEDs and the adjustable color temperature additionally allow for their application in TV studios, conference rooms or presentation

areas. Thereby the cubes convince through their smooth operation in 24/7 use, increased failure-safety, long-term stable colors and a lower use of energy. The broad range of different sizes and resolutions provides the optimal solution for any video wall size and area of application.

Due to a large number of innovative and many optional features, the cubes can be perfectly adjusted to the individual requirements of any installation.

New versions with smaller construction depth and simplified product design further extend the application possibilities of our ecCube®-series.

HIGHEST DURABILITY IN TROUBLE-FREE
24/7 OPERATION

eyevis' new LED-cubes for each primary color use highly qualitative cluster-LEDs with an estimated durability of up to 80,000 hours in standard operation. This sums up to more than nine years in permanent operation! The lack of wear parts such as color wheels and other moveable parts extends service intervals and improves the ecological behavior of the cubes in comparison to older lamp-based systems.

All other components of the cubes are designed for reliable permanent operation and provide highest quality "made in Germany". The new developed cluster-LEDs used in eyevis projection engines, correspond to state-of-the-art developments in LED technology and have already proven their quality and reliability in numerous installations and products.

THE RIGHT SOLUTION FOR
ANY REQUIREMENT

Application areas like command and control rooms that are in operation 24 hours on 365 days a year, require uncompromisingly perfect functioning and reliable systems. Especially when important information is displayed which have to be accessible at any time.

More than 15 years of experience with DLP® large-scale video technology make eyevis one of the leading producers in the field of professional rear-projection systems. Our extensive knowledge in this field has lead to numerous improvements that were integrated into our products in order to increase the failuresafety of our systems once again.

THE EC-1000 SERIES
– FOR DEMANDING APPLICATIONS

Product Versions:

XGA
(4:3 / 1024×768 Px)
- 50": EC-50-LXT-1000
- 70": EC-70-LXT-1000

SXGA
(5:4 / 1280×1024 Px)
- 50": EC-50-LSXT-1000
- 70": EC-70-LSXT-1000

SXGA+
(4:3 / 1400×1050 Px)
- 50": EC-50-LSXT+-1000
- 70": EC-70-LSXT+-1000
- 80": EC-80-LSXT+-1000
- 100": EC-100-LSXT+-1000

UXGA
(4:3 / 1600×1200 Px)
- 70": EC-70-LUXT-1000

FULL HD
(16:9 / 1920×1080 Px)
- 50": EC-50-LHD-1000
- 60": EC-60-LHD-1000
- 70": EC-70-LHD-1000

WUXGA
(16:10 / 1920×1200 Px)
- 56": EC-56-LWXT-1000
- 70": EC-70-LWXT-1000

THE EC-1004 SERIES
– FOR FLEXIBLE HANDLING

Product Versions:

XGA
(4:3 / 1024×768 Px)
- 50": EC-50-LXT-1004
- 70": EC-70-LXT-1004

SXGA+
(4:3 / 1400×1050 Px)
- 50": EC-50-LSXT+-1004
- 70": EC-70-LSXT+-1004

FULL HD
(16:9 / 1920×1080 Px)
- 60": EC-60-LHD-1004
- 70": EC-70-LHD-1004

WQXGA
(16:10 / 2560×1600 Px)
- 70": EC-70-LWQX-1004

The devices from eyevis EC-1000 series represent the revolutionary, state-of-the-art quality of our products developed and manufactured in Germany. The range of cubes in this series includes various resolution standards and sizes from 50" up to 100" screen diagonal (127 cm to 254 cm). The modular rear-projection cubes are based on cutting-edge Cluster-LED technology as light source for the projection engine and have been specifically designed for use in different areas, which have one thing in common - they require an absolutely reliable 24/7 operation. The innovative second generation of the cubes provides an even higher brightness of the images allow for their application in TV studios, conference rooms or presentation areas.

The versatility in use of the cubes is reflected in the fact that in installations which do not require the full brightness of the Cluster-LEDs, for example in control rooms, the power consumption and heat load can be reduced. This again improves the already superior parameters for energy consumption and life-time expectation of our cubes. In addition, the diminished use of wear parts provided by the use of LED technology leads to significantly extended service intervals. The enhanced brightness values can be achieved without increased power consumption. In typical applications, such as in control rooms, the typical power consumption can be even up to 20% lower than the values of standard rear-projection cubes.

Another important benefit of the LED technology by eyevis is that the active area of the Cluster-LEDs is divided into several sections. Another important benefit of the LED technology by eyevis is that the active area of the Cluster-LEDs is divided into several sections. Besides a higher light output, this also guarantees an almost unchanged picture quality in case of failure of individual sections of the LEDs. Thanks to 120Hz technology the cubes from the EC-1000 series are also suitable for displaying three-dimensional image content in active stereo 3D method with shutter glasses. The display mode can be changed anytime between 2D and 3D.

The cooling system of the EC-1000 series uses eyevis' innovative and completely maintenance-free heat pipe cooling technology, which has proven its reliability and efficiency in thousands of cubes in the most demanding operating conditions. In addition, the heat pipe system is very environmentally friendly as it contains no toxic liquids.

Due to a large number of innovative optional features, the cubes can be perfectly adjusted to the individual requirements of any installation, which again extends their flexibility in use. For example, there are different screen types available, versions optimized for installations in TV studios, or the Auto-Color-Tracking system which automatically adjusts the color and brightness of the cubes in a video wall to uniform values.

The latest development in the field of eyevis rear-projection cubes based on the idea to simplify the product design and thereby reduce the number of components required within the cubes. This resulted in the development of the new EC-1004 series with an innovative projection engine in single-module design. Here all electronic and optical components as well as the required cooling system are housed in a single unit, which also provides the network interface, the signal connectors and – as an option - contains the color control system (internal ACT). In this way the entire module can be inserted and removed as a whole during installation and service in only a few steps, which saves time during installation and maintenance. The advantage: construction and maintenance are considerably shortened and simplified. The projector unit also features an integrated cooling concept, which optimizes the air circulation and thus increases the life-time of the LED-illuminants.

Although the structure of these cubes is significantly simplified, they share all high-quality characteristics of eyevis DLP® Cubes. That means no compromises in terms of reliability, longevity, bezel-free video wall construction and flexible design possibilities. The outstanding image quality and the mechanical strength was maintained in the 1004er series as well as the seamless attachment of the screens. The stable design of the housing makes them stackable without further mechanical structures when installing the cubes.

Thanks to the modular design of the cubes installations can be realized in short time and without further efforts. Moreover, the innovative Discrete-Screen-Clamp technology by eyevis makes a seamless installation of the rear-projection screens. Thus, video walls with minimal gaps between the image contents of the individual cubes can be realized.

THE SLIM SERIES
– THE WORLD'S SLIMMEST REAR-PROJECTION CUBES
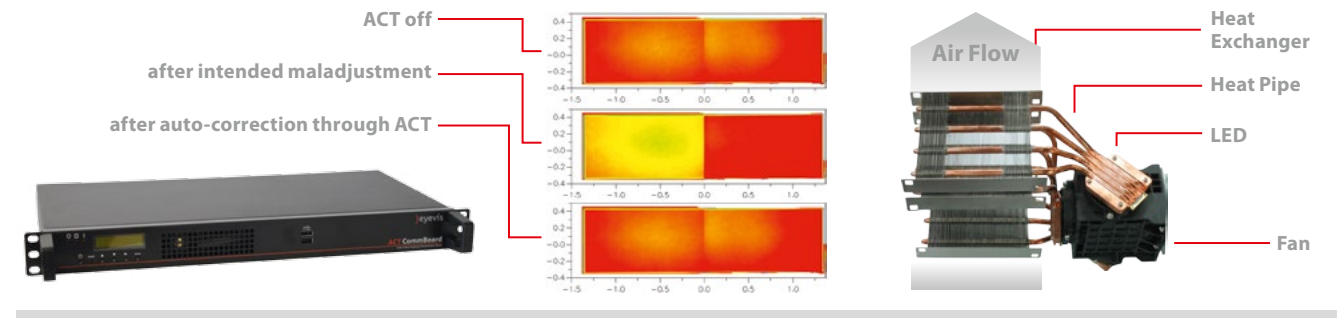

Product Versions:

FULL HD
(16:9 / 1920×1080 Px)
- 50": EC-50-LHD-SLIM
- 60": EC-60-LHD-SLIM
- 70": EC-70-LHD-SLIM

ACT off
after intended maladjustment
after auto-correction through ACT

Air Flow

Heat Exchanger
Heat Pipe
LED
Fan

AUTO-COLOR-TRACKING-COLOR-MANAGEMENT AND HEATPIPE COOLING SYSTEM

eyevis' new LED technology provides lasting color fidelity and extended color adjustment possibilities. The newly developed Multi-Cube-Color-Brightness-Adjustment feature is an instrument that allows for completely automatic adjustment and alignment of all cubes in a connected video wall. Brightness adjustment is performed directly through the LEDs which does not affect the color depth of the presented image and guarantees stable image quality. For several cubes in an assembled video wall, the measurement is performed individually for each cube. The values of each cube are automatically adjusted. This allows for consistent and homogenous presentation of brightness and colors throughout the entire surface of the video wall. To cont-

rol the color temperature the LED-segment can be set to preset parameters (3.200 K/6.500 K/9.500 K) or be defined freely in user mode. The application of the innovative heatpipe cooling system ensures highly dynamic, fast and efficient heat dissipation. The cooling system can be run in any position, even in vibrating surroundings. It is maintenance-free and contains no toxic liquids. The sensor of the three-channel, permanent control of the LED-temperature sits directly at the LED. In the unlikely event of cooling system failure or if the ambient temperature should exceed permissible values, the system automatically reduces the performance of the LEDs. Thereby the image content on the cubes is maintained.

ACCESSORIES AND OPTIONS FOR OUR ecCUBE® SERIES

A wide range of accessories and optional components allows for the installation and operation of our rear-projection cubes in almost any application. Those are for instance:

Underframes
- Standard steel-underframes in different heights
- Vibration-absorbing underframes
- Rail-underframes to move the wall
- Customer-specific special construction (i. e. mountings on rolls)

Screen Types
- Different screen types, optimized for different application scenarios (among others: BlackBead screens, CrossPrism screens, improved-screen-element screens)

Input/Matrix Option
- The scaler board extends the feature range of the cubes by an internal Matrix-Split-Feature for up to 10×10 cubes and further input options (2× DVI, 2× RGB, 2× Video)

Image Processors
- Integrated image processors for the optimization of resolution, for instance for the implementation of shading-masks (hot-spot reduction) or for the generation of a fully synchronous presentation over several modules (i. e. for TV studios)

Front-Access
- For front and rear maintenance access to the cubes. Optionally with motorized adjustment of the projection geometry.

With the cubes from the new EC-SLIM series eyevis presents an alternative version of its ecCUBES especially designed for space-saving applications. The narrow depth of the slim cubes allows for their installation in places where conventional rear-projection cubes were not applicable in the past due to their space. Thanks to their minor installation depth, starting from 432 mm for the 50-inch version, these cubes enable professional rear-projection video wall installations in smallest places. Slim and easy to service – these features make the SLIM series a first choice for video walls in control rooms and TV studios.

The devices are available in three different sizes of 50 ", 60" and 70" screen diagonal with Full HD resolution. Just like the 1004 series version, the SLIM cubes are also based on an innovative single-module-design projection-engine developed by eyevis. The easy-handling concept with integrated motorized geometry adjustment ensures fast and trouble-free assembly. The projection unit can be inserted or dismantled as a whole, both to the front and to the rear side of the cubes. This again significantly reduces the time needed for maintenance works.

Like all eyevis cubes the SLIM versions feature a robust metal housing and the proven Discrete-Screen-Clamp technology for "seamless" screens in order to realize large video walls with smallest bezels. The self-supporting housing of the cubes requires no additional support structures. Installations can even be realized directly mounted to the wall. The cooling system relies on eyevis popular heat pipe technology that has proven its reliable operation in thousands of installations in all other LED-lit cubes from eyevis' ecCUBE series.

Thanks to the implemented 120 Hz technology the cubes are capable to show three-dimensional images using the active stereo approach with shutter glasses. The display mode can be changed at any time from 2D to 3D.

AT A GLANCE
THE ADVANTAGES OF THE EYEVIS ecCUBE® SERIES

DURABILITY
Stable and uniform image quality in reliable 24/7 operation for up to nine years thanks to long-life LED technology with lowest costs for operation and maintenance.

OPTIMIZING FEATURES
Perfect adjustment of the cubes through our eyeDEVICE setup software and the optional Auto-Color-Tracking system (ACT)

COLOR-RESCUE-CONTROL
The patented system allows for the presentation of usable images even in case of complete failure of a primary color. In the highly chromatic presentation, all image information is maintained.

SEAMLESS VIDEO WALL ASSEMBLY
The special screen frames with our proprietary "Discrete Screen Clamp"-technology makes video wall assemblies with smallest bezels between the contents of the single cubes possible.
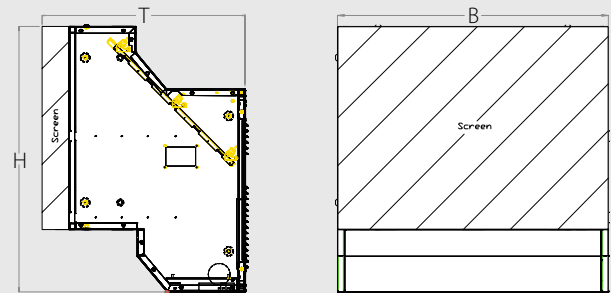
ecCUBE-1000-SERIES
TECHNICAL SPECIFICATIONS

XGA (4:3 / 1024 × 768 Px)

	EC-50-LXT-1000	EC-70-LXT-1000
Screen Diagonal	50 inch (ca.127 cm)	70 inch (ca. 178 cm)
Image Size (W×H)	1000×750mm	1400×1050 mm
Brightness* in cd/m²		
HB Screen (max./typ.)	1105 / 948	788 / 675
ISE Screen (max./typ.)	506 / 431	258 / 219
Contrast Ratio	1500:1 (typ./static contrast)	
Power Consumption	typ. 210 W (Reduced Power Mode: 120 W / max. 300 W)	
Dimensions (W×H×D)	1000×980×750 mm	1400×1388×900 mm

SXGA (5:4 / 1280 × 1024 Px)

	EC-50-LSXT-1000	EC-70-LSXT-1000
Screen Diagonal	50 inch (ca.127 cm)	70 inch (ca. 178 cm)
Image Size (W×H)	1000×800mm	1382×1104 mm
Brightness* in cd/m²		
HB Screen (max./typ.)	998 / 856	712 / 611
ISE Screen (max./typ.)	474 / 404	242 / 206
Contrast Ratio	1500:1 (typ./static contrast)	
Power Consumption	typ. 210 W (Reduced Power Mode: 120 W / max. 300 W)	
Dimensions (W×H×D)	1000×1030×800 mm	1382×1443×880 mm

SXGA+ (4:3 / 1400 × 1050 Px)

	EC-50-LSXT+-1000	EC-70-LSXT+-1000	EC-80-LSXT+-1000	EC-100-LSXT+-1000
Screen Diagonal	50 inch (ca.127 cm)	70 inch (ca. 178 cm)	80 inch (ca. 203 cm)	100 inch (ca. 254 cm)
Image Size (W×H)	1000×750mm	1400×1050 mm	1600×1200 mm	2000×1500 mm
Brightness* in cd/m²				
HB Screen (max./typ.)	1068 / 917	553 / 474	414 / 356	230 / 198
ISE Screen (max./typ.)	506 / 431	258 / 219	197 / 168	125 / 107 (Beta Screen)
Contrast Ratio	1500:1 (typ./static contrast)			
Power Consumption	typ. 210 W (Reduced Power Mode: 120 W / max. 300 W)			
Dimensions (W×H×D)	1000×980×620 mm	1400×1270×750 mm	1600×1480×1000 mm	2000×1628×1350 mm

UXGA (4:3/ 1600 × 1200 Px)

	EC-70-LUXT-1000
Screen Diagonal	70 inch (ca. 178 cm)
Image Size (W×H)	1400×1050 mm
Brightness* in cd/m²	
HB Screen (max./typ.)	617 / 530
ISE Screen (max./typ.)	230 / 194
Contrast Ratio	1500:1 (typ./static contrast)
Power Consumption	typ. 210 W (Reduced Power Mode: 120 W / max. 300 W)
Dimensions (W×H×D)	1400×1388×970 mm

Full HD (16:9 / 1920 × 1080 Px)

	EC-50-LHD-1000	EC-60-LHD-1000	EC-70-LHD-1000
Screen Diagonal	50 inch (ca.127 cm)	60 inch (ca. 152 cm)	70 inch (ca. 178 cm)
Image Size (W×H)	1100×616mm	1344×756 mm	1549×871 mm
Brightnesst* in cd/m²			
HB Screen (max./typ.)	1299 / 1115	884 / 759	723 / 620
ISE Screen (max./typ.)	528 / 443	352 / 297	264 / 223
Contrast Ratio	1500:1 (typ./static contrast)		
Power Consumption	typ. 210 W (Reduced Power Mode: 120 W / max. 300 W)		
Dimensions (W×H×D)	1100×798×730 mm	1344×956×820 mm	1549×1131×825 mm

WUXGA (16:10 / 1920 × 1200 Px)

	EC-56-LWXT-1000	EC-70-LWXT-1000
Screen Diagonal	56 inch (ca. 142 cm)	70 inch (ca. 178 cm)
Image Size (W×H)	1.209,5×756 mm	1.519,8×950 mm
Brightness* in cd/m²		
HB Screen (max./typ.)	995 / 854	626 / 538
ISE Screen (max./typ.)	390 / 329	238 / 208
Contrast Ratio	1500:1 (typ./static contrast)	
Power Consumption	typ. 210 W (Reduced Power Mode: 120 W / max. 300 W)	
Dimensions (W×H×D)	1209,5×968×743 mm	1519,8×1190×800 mm

Dimensions of the ecCUBE®-SERIES

ecCUBE-1004-SERIE
TECHNICAL SPECIFICATIONS

XGA (4:3 / 1024 × 768 Px)

	EC-50-LXT-1004	EC-70-LXT-1004
Screen Diagonal	50 inch (ca. 127 cm)	70 inch (ca. 178 cm)
Image Size (W×H)	1000×750 mm	1400×1050 mm
Brightness* in cd/m²		
HB Screen (max./typ.)	1105 / 948	788 / 675
ISE Screen (max./typ.)	506 / 431	258 / 219
Contrast Ratio	1500:1 (typ./static contrast)	
Power Consumption	typ. 160 W (Reduced Power Mode: 120 W / max. 235 W)	
Dimensions (W×H×D)	1000×980×750 mm	1400×1388×900 mm

SXGA+ (4:3 / 1400 × 1050 Px)

	EC-50-LSXT+-1004	EC-70-LSXT+-1004
Screen Diagonal	50 inch (ca. 127 cm)	70 inch (ca. 178 cm)
Image Size (W×H)	1000×750 mm	1400 × 1050 mm
Brightness* in cd/m²		
HB Screen (max./typ.)	1068 / 917	633 / 540
ISE Screen (max./typ.)	506 / 431	300 / 258
Contrast Ratio	1500:1 (typ./static contrast)	
Power Consumption	typ. 160 W (Reduced Power Mode: 120 W / max. 235 W)	
Dimensions (W×H×D)	1000 × 980 × 620 mm	1400 × 1270 × 750 mm

Full HD (16:9 / 1920 × 1080 Px)

	EC-60-LHD-1004	EC-70-LHD-1004
Screen Diagonal	60 inch (ca. 152 cm)	70 inch (ca. 178 cm)
Image Size (W×H)	1344×756 mm	1550×872 mm
Brightness* in cd/m²		
HB Screen (max./typ.)	884 / 759	723 / 620
ISE Screen (max./typ.)	352 / 297	264 / 223
Contrast Ratio	1500:1 (typ./static contrast)	
Power Consumption	typ. 185 W (Reduced Power Mode: 135 W / max. 270 W)	
Dimensions (W×H×D)	1344×956×820 mm	1550×1132×833 mm

WQXGA (16:10 / 2560 × 1600 Px)

	EC-70-LWXQ-1004
Screen Diagonal	70 inch (ca. 178 cm)
Image Size (W×H)	1519,8×952 mm
Brightness* in cd/m²	
HB Screen (max./typ.)	365 / 320
ISE Screen (max./typ.)	186 / 155
Contrast Ratio	1500:1 (typ./static contrast)
Power Consumption	typ. 210 W (Reduced Power Mode: 120 W / max. 300 W)
Dimensions (W×H×D)	1519,8×1189×865 mm

ecCUBE-SLIM-SERIE
TECHNICAL SPECIFICATIONS

Full HD (16:9 / 1920 × 1080 Px)

	EC-50-LHD-SLIM	EC-60-LHD-SLIM	EC-70-LHD-SLIM
Screen Diagonal	50 inch (ca. 127 cm)	60 inch (ca. 152 cm)	70 inch (ca. 178 cm)
Image Size (W×H)	1107×622 mm	1328×747 mm	1550×872 mm
Brightness* in cd/m²			
HB Screen (max./typ.)	k.A.	k.A.	k.A.
ISE Screen (max./typ.)	370 / 300	260 / 210	190 / 155
Contrast Ratio	1000:1 (typ./static contrast)		
Power Consumption	typ. 130 W (Reduced Power Mode: 80 W / max. 155 W)		
Dimensions (W×H×D)	1107×1069.67×432 mm	1328×1270×487 mm	1550×1489×554 mm

* Different screen versions available:
  High Brightness, CrossPrism, BlackBead (especially for TV studio applications) and ISE (Improved Screen Element)

WORLDWIDE SUPPORT
WE ARE AT YOUR SERVICE

The high quality of our products is backed up by the outstanding quality of our service technicians and the support we offer to our customers. Apart from regular repairs in-house or on-site, the supply of original spare parts and maintenance works on demand, we offer a range of service level agreements that ensure highest availability of your system.

Our experience shows that preventive maintenance and active support return the investment by leading to optimal system availability, the productivity of the system is guaranteed and operating costs can be reduced. Regular maintenance is a prerequisite for stable, trouble-free operation of your eyevis system. Therefore eyevis offers maintenance contracts that are tailored to the needs of your installation.

Updated information on our projects and products with many photos as well as the possibility of communicating with other interested customers can also be found at:

- twitter.com/eyevis
- www.facebook.com/eyevis
- www.linkedin.com/companies/eyevis

Scan the QR code and visit our website to find more detailed information on all of our products and services, download brochures and data sheets, or watch the product videos.