



Scalable control unit for display walls

Eos is a range of controlware designed to control the OVERVIEW, ATLAS or CYCLOPS solutions. The multiscreen capability allows you to operate display walls of any size as one logical display with any number of pixels. For multimedia applications a set of expansion cards and Visu^{PLUS} offer a wide variety to display all kind of video and RGB signals in excellent quality.

Eos is available as Windows[®]2000 or Windows NT[®] workstation as well as X.11 Terminal and suits therefore to your specific needs.

Scalable solutions exactly meet your needs

- With Eos Compact, Eos Power and Eos Ultra each BARCO display wall can be controlled according to your requirements.
- Eos can be controlled by BARCO's sophisticated Control Room Management Software.
- If the BARCO display wall should be extended, Eos can be scaled accordingly and is therefore the right investment for the future.

High performance graphics output

- Eos supports latest PC-standards. Universal and easy integration into existing computer networks are guaranteed.
- Barco's e-Maintenance enables internet based maintenance of Eos.

Optimal display of video and RGB data

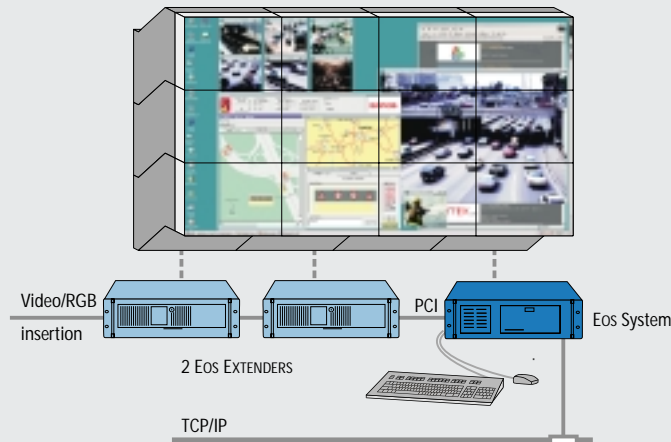
- Video and RGB-Input Cards digitize analog signals and integrate them in the displayed information.
- Visu^{PLUS} displays video and RGB data in brilliant colors and without any impact on the performance of Eos.
- Digital imaging devices are controlled digitally. Digital data transfer is immune to electromagnetic interference and therefore ensures the display wall picture to be displayed in absolutely distortion free image quality.
- For analog imaging devices an analog output is available.

The Eos family ...

Eos Compact

Eos COMPACT is a versatile solution to control Barco's display walls with up to 16 cubes. Depending on the amount of expansion cards Eos Extenders can be used. With exchange of the hard disk (removable frame) Eos COMPACT as X Terminal can be turned to a Windows NT/2000 workstation

and vice versa. With BIGVIDEO CARD, QUADVIDEO CARD and RGB-INPUT CARD Barco offers various expansions to digitize analog video and RGB data and to display them in freely movable windows on the display wall. Rely on the flexibility of Eos COMPACT!



Eos COMPACT with two Eos EXTENDERS

Eos Power

Eos POWER is the scalable X Window solution for display walls of nearly unlimited size and number of cubes. With its unique distributed architecture of one Eos central device and adapted number of Eos rendering machines, Eos POWER perfectly scales processor performance with increasing wall size. For Eos POWER the same video and graphic cards as for Eos COMPACT are available. Empower your display wall with Eos POWER!

Eos POWER containing one central device and three rendering machines

And its features

Operating systems

Eos supports Windows NT/2000 as well as X Window System. Therefore Eos can easily be integrated in existing systems and put into operation with least effort.

Windows NT/2000

- The display is operated as one giant Windows NT/2000 desktop.
- No software modifications are necessary to display Windows NT/2000 applications.
- All applications can be operated by the local keyboard or under Windows NT remotely by any other Windows 95/98/NT/2000 computer (with optional software)
- Powerful Windows NT/2000 drivers tuned for large multiscreen display walls.

X Window system

- Supports all X.11 R6 compatible operating systems.
- Conforms to the internationally standardized X.11 protocol definition for the X Window System.
- For all X clients unrestricted use of the entire display area is possible
- The FullColor Card enables the X.11 Server to display two color modes simultaneously, e.g. 8 bit application / 16 bit video.
- Allows integration of NT applications running on any network PC via Windows NT TSE.
- Powerful extensions available like multi cursor, blinking, ...
- Support for multiple logical screens

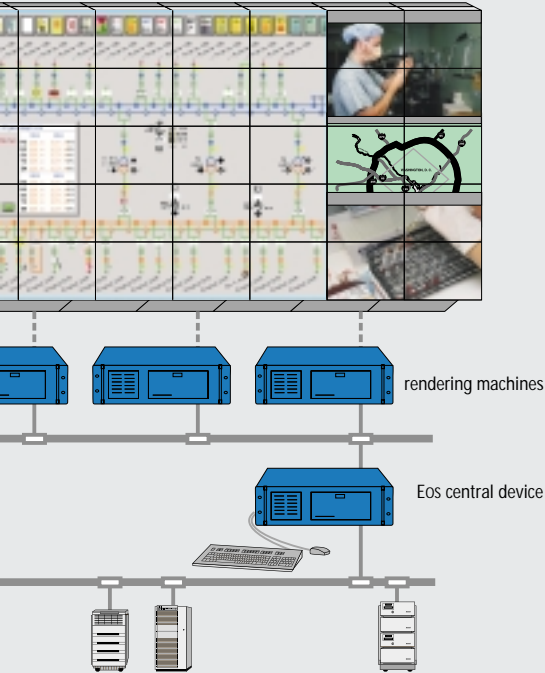
Wall management software

Barco's Wall Management Software allows for remote as well as for local applications the management of the display wall in a user-friendly way.

The layout of all windows can be determined and controlled dynamically. Eos operated as X-Terminal can be managed by OSIRIS, or if operated as Windows NT/2000 workstation it can be managed by APOLLO.

Osiris

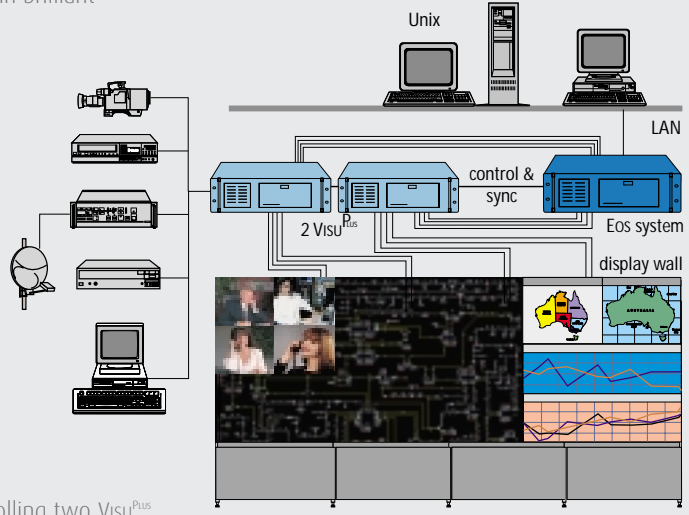
- Applications can be started event-driven.
- Different scenarios can be programmed with a graphical user interface and controlled interactively.
- Intuitive control panel with configurable buttons tailored to the functionalities they initiate
- Can be customized along user access priority lines
- Permanent updated view on each workstation
- The local workstations' mouse and keyboard functions give total wall board control
- Multi-user capability
- Multiple remote pointer



Eos Ultra

Eos ULTRA is the ultimate X Window solution to display video in outstanding quality thanks to Visu^{PLUS} the video and RGB insertion unit. While Eos ULTRA defines the video and RGB windows, Visu^{PLUS} inserts the image data and displays them in brilliant

colors. Nevertheless the placement of these windows (moving and scaling) remains under the control of Eos. Eos ULTRA makes your ultimate video vision come true!



Eos ULTRA controlling two Visu^{PLUS} with eight projection modules

Apollo

- Remote Window Management allows operators to manipulate the windows on the wall from their workstation.
- Application Management supports starting and stopping applications on Eos.
- Layout Management enables the fast switching between predefined arrangements of information.
- Remote Wall Control provides the basic tools for supervising the display wall hardware.
- Remote Pointer gives the ability to manipulate objects on the display wall with the local mouse and keyboard.

For detailed information see the OSIRIS and APOLLO datasheet.

Visu^{PLUS}

The Video Insertion Unit Visu^{PLUS} offers the possibility of integrating video and RGB information into the windows of a large display wall. Visu^{PLUS} displays video and RGB data with 16,7 million colors. With one device, up to four sources can simultaneously be displayed.

Video input unit

- Video input BNC connector
- S-Video input on 4-pin mini-DIN
- For color decoding, (down)scaling, median filtering and scan conversion
- Supports broadcast standards PAL, NTSC and SECAM

RGB input unit

- RGB input on D15 connector
- (Down)scaling and scan conversion
- Input resolution up to 1280x1024 pixels

Output unit

- Either digital or analog connection to projector and Eos: Panellink™ or D15 connector
- (Up)scaling
- To merge the video or RGB signals with the high resolution signals from Eos
- Up to 4 channels

For detailed information see Visu^{PLUS} datasheet.

Backside of Visu^{PLUS}



Technical specifications Eos

General data

- PC ATX technology with Pentium® IV processor
- up to 1GB main memory
- Ethernet/FastEthernet
- PC MF-II keyboard, PC compatible mouse
- up to 20 m keyboard and mouse extension available
- 19" industrial case of Eos in the dimensions (WxHxD):
440 mm x 177 mm x 450 mm
17.32 in. x 6.97 in. x 17.72 in.
with fixation, rubber feet and handles:
482 mm x 183 mm x 502 mm
18.98 in. x 7.20 in. x 19.76 in.
weight: approx 15.7 kg | 34.6 lbs
- operating conditions:
0-40° C | 30-105° F
at max. 80% humidity
(non condensing)
- power supply 95-230 VAC ± 10%,
60/50 Hz
power consumption: 300 W

Eos Extender

- dimensions like Eos
- weight: approx. 14 kg | 30.9 lbs.
- operating conditions like Eos
- power supply: 100-240 V, 60/50 Hz
power consumption: 400 W

Safety regulations

Eos complies with UL 1950 and EN60950

Electromagnetic interference

Eos complies with
FCC part 15 Class B
EN55022 Class B
EN55024
EN61000-3-2

Graphic cards

Digital Graphic Card

- digital output: 640x480, 800x600 and 1024x768 pixels per channel with 8, 15, 16 bpp and 24 bpp^{*)}
- 2 digital outputs / MDR26 PanelLink(TM)

Analog Graphic Card

- analog output: 640x480, 800x600, 1024x768, 1280x960 and 1280x1024 pixels per channel with 8, 16 bpp and 24 bpp^{*)}
- 2 analog outputs, VGA (D15)

FullColor Card

The FULLCOLOR CARD improves the display of video and RGB signals.

- applications in different color modes, e. g. 8 bit mode for common software and 16 bit mode for windows with video or RGB overlays
- enables increased bandwidth for video and RGB data, which results in high resolutions at high frame rates

Extension Cards

BigVideo Card

Eos digitizes with BIGVIDEO CARD analog video data and integrates them into the displayed information.

- display of video sources on entire projection cubes or in freely movable windows
- scalable up to 1560x1170 pixels @ 25 fps, higher resolutions with several BIGVIDEO CARDS
- 3 four-pin mini DIN connectors for S-Video and Composite Video
- supports broadcast standards PAL, NTSC and SECAM

QuadVideo Card

Eos digitizes with QUADVIDEO CARD analog video data and integrates them into the displayed information.

- display of four video sources simultaneously in freely movable windows
- resolution is equal to input signal, scalable down to 44x33 pixels (typical size is 300x225 pixels)
- 4 four-pin mini DIN connectors for S-Video and Composite Video
- supports broadcast standards PAL, NTSC and SECAM

RGB-Input Card

Eos digitizes with RGB-INPUT CARD analog RGB data and integrates them into the displayed information.

- display of RGB sources on entire projection cubes or in freely movable windows
- pixel frequency: 20 MHz to 140 MHz, line frequency: 15 kHz to 130 kHz
- VGA connector: Hsync+Vsync, Csync, Sync on Green
- freely scalable up to 2200x1650 pixels with superior quality
- Frame rate selectable up to 1/3 of signal source

^{*)} 24 bpp for Windows NT/2000 Workstation only

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Barco Control Rooms - Belgium
Noordlaan 5, 8520 Kuurne
Phone (32) (56) 368211
E-mail sales.bcd@barco.com

Germany Phone (49) (721) 62010
USA Phone (1) (770) 2183200
Brazil Phone (55) (11) 38421656
Japan Phone (81) (3) 57628720
Hong Kong Phone (852) 23970752

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