

Compelling Presentations in Bright Environments

Nothing surpasses the powerful reality of BARCO's latest compact yet high performance digital LCD projector family. The BARCO 6500 Series projectors incorporate a unique combination of ultra-high brightness and exceptional imaging capabilities offering truly simple and extremely silent operation. This unit delivers dynamic and compelling visual presentations in high-end boardrooms, conference rooms, bright training rooms and education centers as well as auditoriums and other challenging environments in point-of-sale, leisure and entertainment and rental and staging events.



BARCO 6500 SERIES

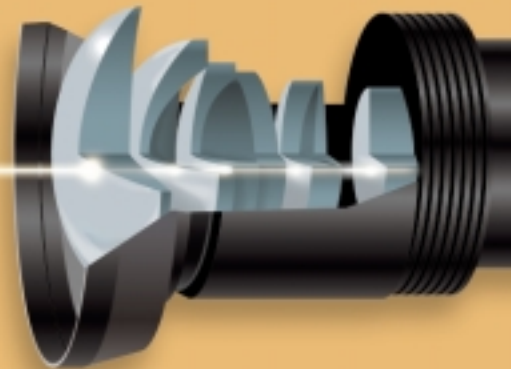
Exceptional Imaging Capabilities

Razor Sharp in Every Corner

State-of-the-art optics ensure the highest resolution with unsurpassed clarity of the entire image.

Perfect Geometry

Precision projection lenses provide superior image quality with an absolute minimum of geometric distortion.



Ultra-high Brightness Light Source

The BARCO 6500 Series projectors are equipped with a powerful new 600 Watt lamp. Thanks to this new efficient lamp design and the ultimate matching of all optical components in the projector design, the units produce a dazzling light output up to 5,500 lumens.

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High Performance LCD Panels

The BARCO 6500 Series projectors feature three proprietary 1.8" diagonal polysilicon LCD panels. The BARCOREALITY 6500 uses panels with Micro Lens Arrays (MLA) to achieve a very high light transmission efficiency and increased light output.





True Color Reproduction



Astonishing Realism...

TCR^{Plus} Processing

BARCO's powerful True Color Reproduction processing enhances the quality of conventional video sources resulting in vibrant images with remarkable color depth, sharpness and clarity:

- motion adaptive noise reduction without introducing motion artifacts
- amazingly sharp video images even from conventional video sources
- remarkable clarity of even the most minute picture details
- graded and precisely controlled color contrast of each pixel
- adjustable saturation and contrast
- elimination of interlace jitter for both still and moving images

Patented Pixel Map Processor

When the resolution of a data image doesn't match the native resolution of the LCD panel, the image needs to be remapped.

BARCO's patented Pixel Map Processor recalculates every pixel with state-of-the-art digital signal processing techniques, resulting in optimal picture quality, crisp graphics with smooth and exceptionally readable characters.

This processor provides full compatibility with a wide range of computer data and graphics standards.



Detail of an image projected by most common scan converters

Detail of an image projected after digital conversion by BARCO's patented Pixel Map Processor.

Optimal Character Readability

Wide Input Compatibility



SDI &



SDI
In order to easily connect to the latest generation of digital video and RGB sources, the BARCO 6500 Series projectors can be equipped with an optional Serial Digital Input. An active loop-through is provided for monitoring or for double and triple stacking applications.

IEEE 1394 FireWire™
First in its class, BARCO now offers the optional IEEE 1394 FireWire™ input. This high-speed digital interface allows the interconnection of a wide range of computers, peripherals and consumer electronics products (PCs, printers, camcorders, TVs, VCRs, and digital cameras) without image degradation.

The BARCO 6500 Series projectors feature an impressive array of input connections: Video, S-Video, RGB, VGA as well as optional SDI and FireWire™.

Located on the projector's front panel, these enable more esthetic cable routing, especially in fixed installations.

These projectors display a very wide range of input signals: from DVD sources to SDI Digital Video, and from the latest HDTV sources to all of today's popular RGB computer formats.

The projector automatically recognizes all sources and offers intelligent user-adjustable priority switching.

Intelligent Networked Projector

Auditorium



Training Room



Conference Room



PRECA 1280©

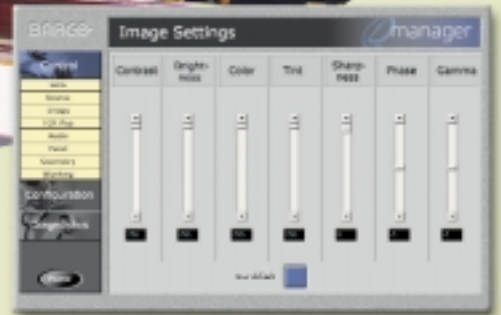


Administrator



Using the optional Ethernet 10-base T interface, the BARCO 6500 Series projectors can be connected to an Internet line as well as a LAN/WAN. Consequently, the projector becomes an IP addressable device and allows the user to access and manage all projectors in various locations from one central point or even remotely, by connecting to the corporate network. The user simply has to access via a password protected webpage, which is put on the network by the hardware inside the projector. Due to the diagnostics and error monitoring and reporting, quality and speed of service can be improved. This networking feature results in a lower total cost of ownership and facilitates the integration of the projection device in the company.





Remote Control and Monitoring of the Projectors

From any networked location, the administrator/user can control or monitor multiple functions of the projectors within a web browser environment:

- projector on/standby
- source selection
- brightness, contrast, sharpness
- size, aspect ratio, keystone correction
- audio settings
- ... as well as all other functions adjustable through the standard remote control

On-line diagnostics

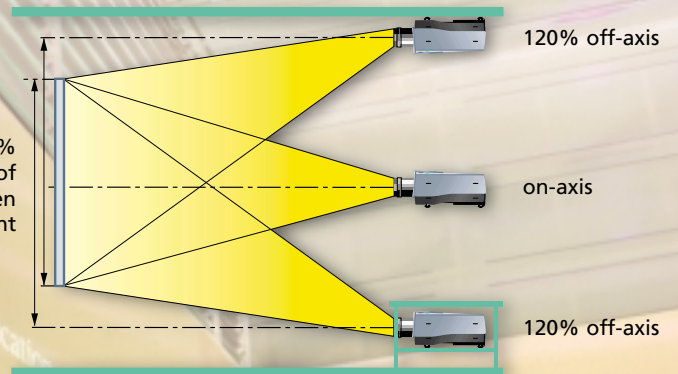
Status information (the lamp life, the total runtime of the projector, the software version, ...) as well as warnings on errors in specific ICs and power supplies result in an improved and faster service. The user/administrator is informed via the Internet or through a mail service. This feature can be programmed to automatically send information to any designated user/administrator.

BARCO's Q-Manager software was specially developed to allow the user/administrator to manage all projectors in various locations from one central point.

Remote Service Contractor

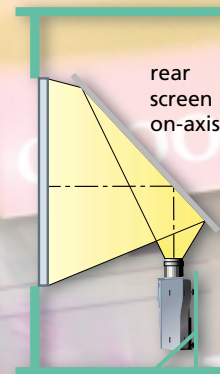


Precise Projection at Any Time



Projection from any Position or Distance

The unique optical design of the lenses allows the projector to be installed up to 120 % off-axis without losing any brightness or resolution. Motorized lens shift greatly simplifies on-site adjustment (up to 112 % horizontally and 120 % vertically). Putting the projector off-axis means every single person in the audience can have a clear and undisturbed view of the screen.



A Broad Range of Lenses

The BARCO 6500 Series projectors can be equipped with a wide range of easy-to-replace fixed focal and zoom lenses ranging between 0.8 and 7 times the screen width, allowing projection from practically any angle and throw distance. Using the motorized zoom, focus and lens shift feature, the projectors can be easily installed in almost any configuration.



Silent and Long-Life Operation

Low Acoustic Noise Level

The BARCO 6500 projectors generate the absolute minimum noise level, reducing unwanted audience distraction – a common complaint with conventional projectors. The noise level was kept lower than 39 dB(A) - a remarkable achievement for projectors with a light output exceeding 4000 or even 5000 lumens.

Extended Lifetime

These projectors feature a rugged die-cast aluminum cabinet, making it extremely solid and durable.

Internal and external diagnostics devices preserve the highest reliability and performance. Equipped with the optional networking capability, the projector can be controlled via the web, allowing an even better and quicker diagnosis.

Software can be easily upgraded via the RS232 port (standard projector) or through the company's network (network-enabled projection device).

e future



Plug 'n Play for Any Application

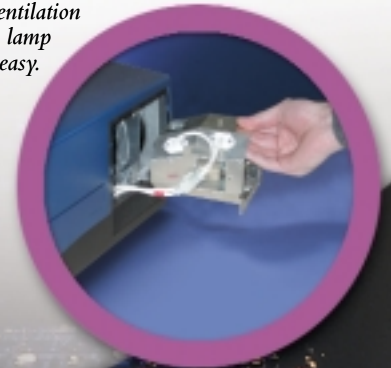


Easy Stacking

For higher light output and redundancy, two or three units can be stacked with or without frames. This stacking is further facilitated by means of the unit's motorized lens shift.



A sliding lamp socket behind a detachable ventilation panel makes lamp replacement easy.



The AUTOIMAGE feature allows the projector to automatically optimize all display settings for the incoming source signal.

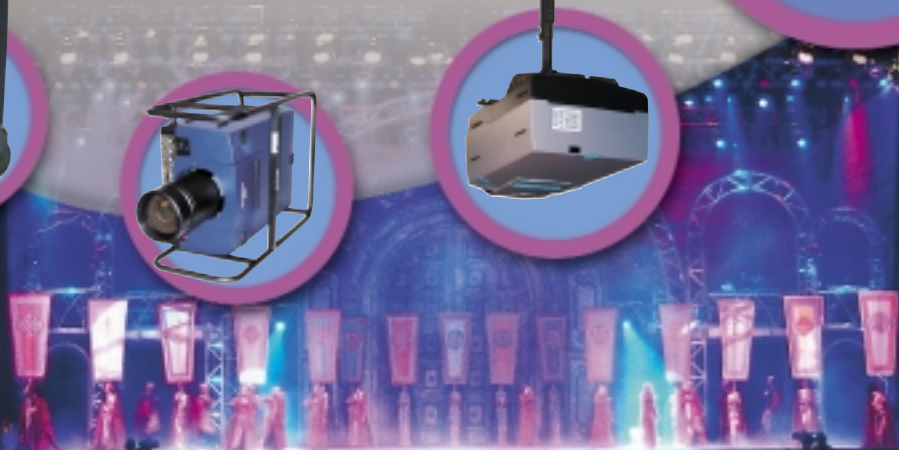
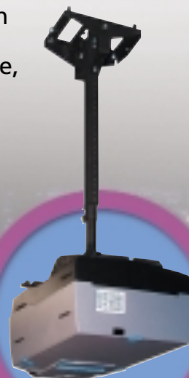
Easy-to-use Remote Controls

The backlit infrared remote control with 5 Quick Access Keys provides instant access to set-up functions such as: motorized zoom and focus, lens shift, contrast and brightness, as well as other parameters.

A special executive remote control allows the speaker to navigate through the presentation or to control the operating system of the computer by using the built-in mouse control. The integrated laser pointer can be used to direct the attention of the audience to a certain part of the screen.

Vast Array of Accessories

A vast array of accessories, such as the ceiling mount, multifunctional frame, soft case, rugged flight case ... offers a variety of transport and set-up possibilities.



BARCO 6500 Series Technical Specifications

BARCOGRAPHICS 6500

Light Output

4,000 ANSI lumens⁽¹⁾
 4,500 center lumens⁽¹⁾
 Brightness uniformity: 90 % for the total screen

LCD Panels

3 active matrix 1.8" diagonal XGA polysilicon LCD panels with a resolution of 1024 x 768 pixels (4:3 aspect ratio) LCD panels are selected for a minimum of pixel defects

Contrast Ratio

>400 : 1 (full white/full black)
 >200 : 1 (5 x 4 ANSI checker-board)

Scan Frequencies

Horizontal 15 kHz - 100kHz
 Vertical 25 Hz - 150Hz

Compatibility

- All video sources (PAL, SECAM, NTSC 3.58, NTSC 4.43) in Composite, S-VHS, Component or RGB formats
- All currently proposed HDTV, extended and improved television standards (1080i, 720p,...)
- All computer graphics formats from VGA, S-VGA, XGA to S-XGA
- Most Macintosh computers
- Electronic workstations with a resolution up to 1280 x 1024 pixels / 76 Hz
- Most sources with a pixel clock up to 135 MHz

BARCOREALITY 6500

Light Output

4,300 ANSI lumens⁽¹⁾
 5,500 center lumens⁽¹⁾
 Brightness uniformity: >80 % for the total screen

LCD Panels

3 active matrix 1.8" diagonal S-XGA polysilicon LCD panels with Micro Lens Arrays and a resolution of 1280 x 1024 pixels (5:4 aspect ratio) LCD panels are selected for a minimum of pixel defects

Contrast Ratio

>350 : 1 (full white/full black)
 >180 : 1 (5 x 4 ANSI checker-board)

Scan Frequencies

Horizontal 15 kHz - 115kHz
 Vertical 25 Hz - 150Hz

Compatibility

- All video sources (PAL, SECAM, NTSC 3.58, NTSC 4.43) in Composite, S-VHS, Component or RGB formats
- All currently proposed HDTV, extended and improved television standards (1080i, 720p,...)
- All computer graphics formats from VGA, S-VGA, XGA, S-XGA to U-XGA
- Most Macintosh computers
- Electronic workstations with a resolution up to 2000 x 1280 pixels / 76 Hz
- Most sources with a pixel clock up to 200 MHz

BARCO 6500 Series

Lamp

New 600 Watt metal-halide arc lamp, designed for the 6500 Series; pre-aligned for max. light output
 Typical lifetime: 1,000 hours

Screen Width

From 1 - 6 m, except for the QGD (0.8:1) lenses

Inputs

- 1x Configurable 5-Wire (BNC) for: Composite Video, S-Video, Component Video and RGB
- 1x Video (BNC or RCA)
- 1x S-Video (4-pin mini-DIN)
- 1x VGA (D15 connector)
- 3x Configurable Stereo Audio (RCA)

Optional:

- 1x Serial Digital Input/Output
- 1x IEEE1394 FireWire™
- 1x Ethernet (10-Base T)

Outputs

- 1x VGA (D15 connector)
- 1x Stereo Audio (RCA)

Communication

- 1x Ethernet connection (RJ-45) for remote control via LAN
- 2x D9 connectors for RS232 In/Out
- 1x D9 connector for Com 800
- 1x Mouse Out (DIN 13)
- 1x Mini-jack for Wired Remote Control
- 2x IR receivers (front + back)

Network Environment

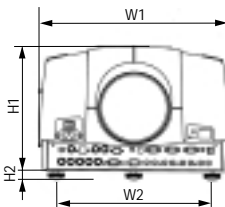
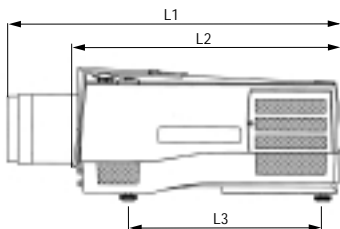
- IP addressable with Dynamic Host Configuration Protocol (DHCP)
- Web browser interface
- Simple Mail Transfer Protocol (SMTP) for mail service
- Ethernet interface (10-Base T)
- FTP-client for software updates

Features with the optional network interface

- Remote control and monitoring via standard web browser
- On-line diagnostics via web or through a mail service

Special Features

- Motorized zoom, focus and lens shift can also be adjusted through the RS232 communication port
- Built-in 2 x 3 Watt stereo audio amplifier and speakers
- Color temperature adjustment (Broadcast 3200° K, Film 5400° K, Video 6500° K, Computer 9500° K or Custom)
- User adjustable Automatic stand-by (after 5/15/30/60 min. or off)
- Optional light shutter blanks image when paused



Dimensions	mm	inch
L1*	619	24.41
L2	527	20.76
L3	380	15
W1	371	14.6
W2	306	12
H1	245	9.65
H2	12 - 24	0.47 - 0.94
* with QFD (1.4 - 2:1) zoom lens		
Shipping Dimensions		
L	710	28.0
W	550	21.7
H	470	18.5

AC Power

Power factor pre-regulated SMPS,
95 - 230 VAC +/-10% / 50-60Hz

Power Consumption

900 Watt

Power Dissipation

< 3,075 BTU/hour

Safety Regulations

Compliant with UL1950 and
EN60950

Electromagnetic Interference

BARCO's 6500 Series complies with
FCC rules & regulations, part 15
Class B and CE EN55022 Class B

Warm-Up Time

Less than 5 minutes to meet full
specifications

Noise Level (0-26°C / 32-79°F)

38.8 dB(A) at 39.4" / 1m (3.3 ft)
34.4 dB(A) at 78.8" / 2m (6.6 ft)

Environmental Conditions**TEMPERATURE**

- Operation 0°- 40°C / 32°- 104°F
- Storage -20°- 60°C / -4°- 140°F

HUMIDITY

- Operation 35 to 95%
- Storage 10 to 95%

Weight

Net weight:

Body only 17.7 kg / 39.0 lbs.

Body + lens (depending on lens)

21 - 25 kg / 46.3 - 55.1 lbs.

Shipping weight: max. 29 kg / 63.9 lbs.

Accessories Included

- Infrared remote control
- Owner's and installation manual
- Power cord with CEE (7) VII plug

(1) Light output with QFD (2.5:1) lens

Order Information

BARCOGRAPHICS 6500 R9001950
BARCOREALITY 6500 R9001960
Lamp 600 Watt for 6500 Series

R9840750
SDI Input R9829920
Digital Video Kit (SDI + FireWire)
R9840720

Network Interface card for
6500 Series R9840920
Light Shutter R9829930
Executive Remote R9829960
Ceiling Mount 6000 Series R9829860
Multifunctional Frame R9829890
Flight Case R9829870
Soft Case R9829880

Lenses Order No.

Motorized Zoom Lenses
QFD (1.4 - 2.0:1) R9840380
QFD (2.1 - 3.0:1) R9840390
QFD (3.4 - 4.5:1) R9840060
QFD (4.5 - 6:1) R9840100

Fixed Focal Length Lenses
QGD (0.8:1) 50-72" R9829800
QGD (0.8:1) 84-120" R9840040
QFD (1.27:1) R9840400
QFD (2.5:1) R9840290
QFD (7:1) R9840410



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BARCO

DESIGNED UNDER

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9001**

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