

PRELIMINARY



# BARCOREALITY 6400

## Extreme Projection Power

The BARCOREALITY 6400 is the newest and most powerful member in BARCO's range of compact Digital projectors. This impressive unit combines exceptional resolution, high brightness and advanced digital signal processing to deliver compelling visual presentations with astonishing depth and clarity.

Equipped with high performance polysilicon S-XGA LCD panels with Micro Lens Arrays and a powerful 400 Watt metal-halide arc lamp, the unit delivers high light output of up to 4,000 lumens. This makes the BARCOREALITY 6400 the ideal presentation tool for boardrooms, conference rooms, auditoriums, point-of-sale displays, CAD/CAM imaging, virtual reality centers as well as rental & staging applications.

### Versatile Source Compatibility

The BARCOREALITY 6400 offers exceptional source compatibility which enables it to display brilliant, high resolution images from virtually any computer or workstation, as well as any digital and analog video sources:

- Video sources: All VHS, S-VHS, Component (Y, R-Y, B-Y) and RGB formats
- DVD players, satellite receivers and laserdiscs
- Computers and workstations with a resolution of up to 2000 x 1280 pixels
- Built-in Serial Digital Input (SDI / 4:2:2)

### Exceptional Video and Graphics Performance

The BARCOREALITY 6400 delivers superb large screen picture quality from all video and graphics sources thanks to several advanced features:

- High light output of up to 4,000 center lumens
- Three active matrix 1.8" S-XGA polysilicon LCD panels with Micro Lens Arrays (MLA) and a resolution of 1280 x 1024 pixels
- Powerful 400 Watt metal-halide lamp
- BARCO's advanced TCR<sup>Plus</sup> feature processes conventional video signals and transforms them into brilliant images with vibrant colors and amazing color depth
- BARCO's Patented Pixel Map Processor guarantees very legible characters and the greatest amount of picture detail possible
- Auto-source recognition and configuration
- Extensive geometry adjustments (motorized zoom, focus and lens shift) can also be adjusted through the RS232 communication port
- Up to 120% off-axis projection and extra 25% keystone correction



**BARCO**

# Technical Specifications

## Light Output

3,400 ANSI lumens<sup>(1)</sup>  
 4,000 center lumens<sup>(1)</sup>  
 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 (aspect ratio 5:4). LCD panels are selected for a minimum of pixel defects.

## Contrast Ratio

>250 : 1 (full white/full black)  
 >150 : 1 (5 x 4 ANSI checkerboard)

## Scan Frequencies

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

## Compatibility

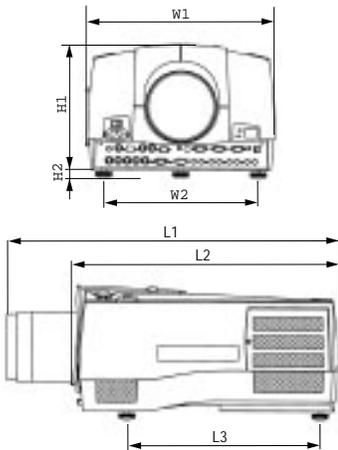
The BARCOREALITY 6400 is compatible with:

- All current video sources (PAL, SECAM, NTSC) 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 and 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

## Lamp

Improved 400 Watt metal-halide arc lamp; pre-aligned for max. light output.

Typical lifetime: 1000 hours



## Screen Width

From 3-20 ft., 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 input

## Output

1x VGA (D15 connector)  
 1x Stereo Audio (RCA)  
 1x Trigger Output Mini-jack (e.g. for motorized screen control)

## Communication

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)

## AC Power

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

## Power Consumption

Max. 570 Watts

## Power dissipation

< 2,000 BTU/hour

## Safety Regulations

Compliant with UL1950 and EN60950

## Electromagnetic Interference

BARCO's 6400 Series complies with FCC rules & regulations, part 15 Class B and CE EN55022 Class B

## Weight

Net weight:  
 Body only 17.7 kg / 39.0 lbs.  
 Shipping weight:  
 max. 29 kg / 63.9 lbs.

## Lenses

To get the highest optical efficiency and maximum light output from the BARCOREALITY 6400, new QFD Series lenses are required:

	Relative Luminance <sup>(2)</sup>
QFD (2.5 :1)	110%
QFD (3.4 - 4.5 :1)	100%
QFD (4.5-6 :1)	100%
QFD (1.27 :1) <sup>(3)</sup>	100%
QFD (1.4 - 2 :1) <sup>(3)</sup>	100%
QFD (2.1 - 3.0 :1) <sup>(3)</sup>	100%

While the new QFD Series lenses provide the highest level of light output, BARCO's existing range of QGD Lenses can also be used on the BARCOREALITY 6400

## Order Information

BARCOREALITY 6400	R9001760
QFD (2.5:1)	R9840290
QFD (3.4-4.5:1) motorized zoom	R9840060
QFD (4.5-6:1) motorized zoom	R9840100
QGD (0.8:1) 50-72"	R9829800
QGD (0.8:1) 84-120"	R9840040
QGD (1.27:1)	R9840000
QGD (1.36-2:1) motorized zoom	R9829850
QGD (2-2.8:1) motorized zoom	R9829790
QGD (7:1)	R9840030

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

(2) The QFD(3.4-4.5:1) lens is the reference for the relative luminance values.

(3) These lenses are under development



BARCO Projection Systems is an ISO9001 registered company.

The information and data given are typical for the equipment described. However any individual item is subject to change without any notice.

Dimensions	mm	inch
L1*	655	25.76
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 QGD (1.36 - 2:1) zoom lens		
Shipping Dimensions		
L	710	28.0
W	550	21.7
H	470	18.5

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