# BARCOREALITY 9300

## Ultra-High Resolution, High Brightness Digital Light Cannon Projector

The BARCOREALITY 9300 combines exceptional resolution and very high brightness with advanced signal processing to deliver a remarkable break-through in performance for large screen video and graphics applications. Equipped with high aperture ratio S-XGA panels and an 1,800 Watt metal-halide lamp, the unit delivers a powerful light output of 6,600 lumens. The BARCOREALITY 9300 is ideally suited for the most demanding applications ranging from auditoriums, conference room and rental & staging applications to CAD/CAM imaging, process control and virtual reality centers.

**Versatile Source Compatibility**
The BARCOREALITY 9300 offers exceptional source compatibility wich enables it to display brilliant, high resolution images from virtually any computer or workstation, as well as any digital and analog or data video sources:

- NTSC Video sources: VHS, S-VHS, Component (Y, R-Y, B-Y) and RGB format
- 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 9300 delivers superb large screen picture quality from all video and graphics sources thanks to several advanced features:

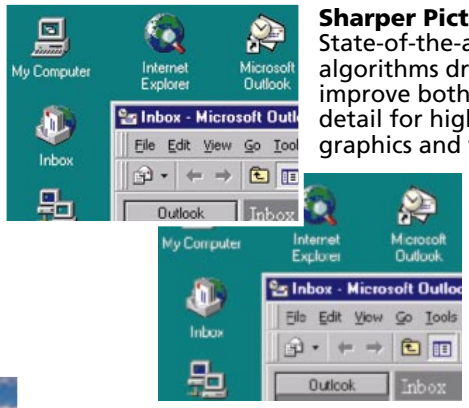
- High light output of 6,600 lumen full white
- Three active matrix 5.8" high aperture S-XGA LCD panels with a resolution of 1280 x 1024 pixels
- Powerful 1800 Watt metal-halide lamp
- BARCO's advanced TCR$^{Plus}$ feature transforms ordinary video signals into brilliant images with vibrant colors and amazing color depth
- BARCO's Patented Pixel Map Processor guarantees very legible characters and the greatest amount of picture detail possible

BARCO

# TCR Plus – The Power to Reinforce Color and Detail

True Color Reproduction

**BARCO's TCR Plus Technology**
TCR Plus utilizes BARCO's True Color Reproduction feature which provides true-to-life colorimetry and superior color uniformity over the entire screen. Special image enhancement features enable perfect color tracking and superb gamma correction. The result are razor-sharp graphics pictures and rich, well saturated video images with amazing color depth and clarity.




**Sharper Picture Display**
State-of-the-art processing algorithms dramatically improve both sharpness and detail for high-resolution graphics and video images.

**Dynamic Color Depth**
Superior picture quality is achieved for all sources by digitally analyzing, and controlling the color contrast of each image pixel in real time.

**Noise Reduction**
An advanced Digital Noise Reduction System reduces noise in video pictures and increases the stability of graphics images without inducing motion artifacts.

**Programmable Blanking**

This feature allows the user to create complex blanking patterns using an external PC and special software.

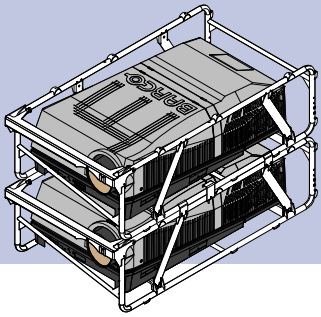
## Ready for the Road

**A wide range of special features and accessories make the projector ideally suited for Rental and Staging applications:**

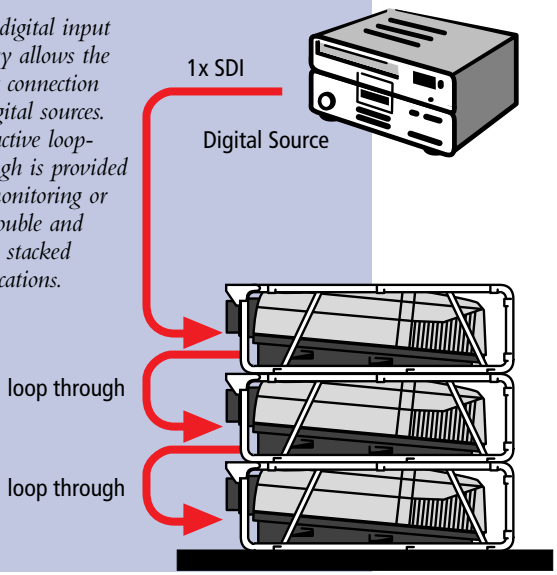
motorized MOCA convergence

BARCO's MOCA (Motorized Convergence Adjustment System) was designed especially for special applications such as On-axis or Dual/Triple projection. MOCA allows precise convergence adjustments on the projected image by means of an Infrared Remote Control.

BARCOREALITY 9300 projectors can be mounted and suspended in BARCO's rugged, Multifunctional frame. Solid fixation points are provided for rigging safety chains. Powerful features such as an Adjustable Lens Shift, an SDI digital video input and BARCO's Windows Control Software offer further flexibility.



*The digital input facility allows the direct connection of digital sources. An active loop-through is provided for monitoring or for double and triple stacked applications.*



# Technical Specifications

**Light Output**
6,600 lumen full white
5,500 ANSI lumen
Brightness uniformity:
> 80% for the total screen area

**LCD Panels**
3 active matrix high aperture S-XGA LCD panels (5.8" diagonal), with a resolution of 1280 x 1024 pixels. LCD panels are selected for a minimum of pixel defects(1)

**Lamp**
1800 Watts metal-halide lamp
Typical lifetime: 1,000 hours with a brightness maintenance of 80 %

**Available Lenses**
- Fixed focal length lenses are available with a throw ratio of 1.2, 2.2, 3.3, 4.0, 5.0, 7.0 or 10.0:1.
- Variable focus lens:
  - throw distance = 1.5 - 3 times the screen width
- Lens with a very short throw ratio of 0.9:1, for on-axis projection applications
- Ultra-high resolution QHD lenses are available

| Lens Type | Order No. |
|---|---|
| QHD (1.2:1) | R9829760 |
| QHD (2.2:1) | R9829770 |
| QHD (4.0:1) | R9829080 |
| QHD (10.0:1) | R9829840 |
| QHD (1.5-3:1) (zoom) | R9829780 |
| HD (3.3:1) | R9829075 |
| HD (5:1) | R9829180 |
| HD (7:1) | R9829090 |
| HD (0.9:1)(2) | R9829550 |

**Screen Sizes**
Min.: 3.3' x 2.5'/ 1m x 0.75 m
Max.: 50' x37.5'/ 15m x 11.25m

**Contrast Ratio**
>250:1 (on 5x4 B/W checkerboard)
>500:1 (full white/full black)

**Remote Control**
All controls are accessible through a soft-touch panel, a user-friendly backlit infrared remote control or BARCO's Windows Control Software
- Source switching
- User settings per source
- Installation and service adjustments

**Inputs**
Built-in input facilities:
- RGB analog input with standard sync (BNC connectors), sync on green or separate sync
- Multifunctional 5-Cable input for the connection of
  - RGB analog signals with standard sync (BNC connectors) or tri-level sync, sync on green or separate sync
  - Standard Video signals
  - S-VHS signals
- RS232 and RS422 (software switchable) loop-through input (D9-connector) for PC based projector control
- Communication input (D9-connector) for peripherals
- SDI input (Serial Digital Input)
- 3 pins male XLR connector for communication input

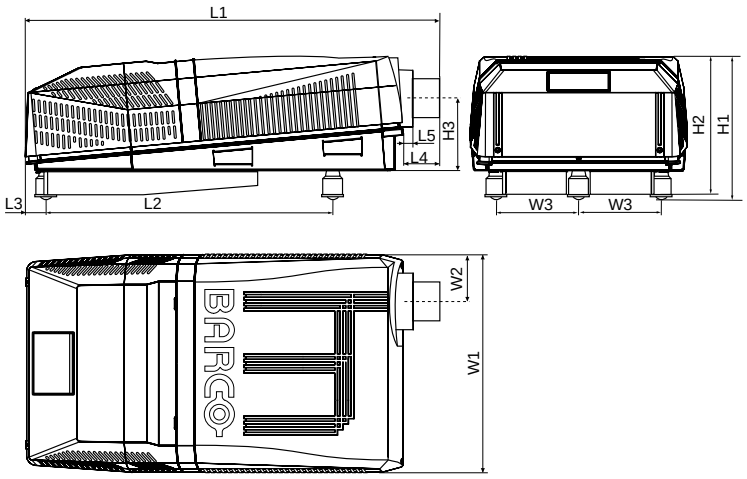
Furthermore, the projector has two modular inputs. Five different types of input modules are available:
- Video / S-Video Input: Video on BNC, S-Video on 4-pin mini-DIN connector
- Component Video Input (Y, R-Y, B-Y, S) on 4 BNC connectors
- RGB analog input with standard sync (BNC connectors), sync on green or separate sync
- RGB analog input with tri-level sync (BNC connectors), sync on green or separate sync
- 5-Cable input

| Input Modules | Order No. |
|---|---|
| Video/S-Video | R9827900 |
| RGB analog (standard sync) | R9827910 |
| RGB analog (tri-level sync) | R9827920 |
| Component Video | R9827930 |
| 5-Cable Input | R9828660 |

**Compatibility**
The BARCOREALITY 9300 is compatible with:
- All current NTSC Video sources in Composite, S-VHS, RGB or Component or digital formats
- All currently proposed HDTV, extended and improved television standards (Eureka 95, Hi-Vision, ACTV, IDTV, EDTV,...)
- All computer graphics formats from VGA (640x480), S-VGA (800x600), XGA (1024x768), S-XGA (1280x 1024 pixels) up to electronic workstations with a resolution up to 2000 x 1280 pixels ( pixel clock up to 200 MHz)
- Most Macintosh computers

**Special Features**
- Built-in MOCA motorized convergence adjustments via remote control
- Built-in Adjustable Lens Holder ideal for dual and triple stacked configurations
- Extensive geometry adjustments (Image Size, Shift, Keystone,...), also addressable through RS232 communication port
- Built-in Freeze facility
- Internal test patterns (crosshatch, color bars, greyscale,...)
- External auto-diagnostics with 2 x 7 segment LED display
- Built-in help menus
- Intuitive on-screen display: Installation and service screens, barscale display of user settings, on-screen display of selected source
- Easy upgradable projector software from PC via RS232 input
- Adjustable leveling feet
- Calibrated color temperature selections (3200K, 5400K, 6500K, 9300K or custom)
- Optional light shutter blanks image when paused
- An optional multifunctional frame facilitates carrying the projector and protects it against impacts. It also allows quick and easy set-up of the projector for Dual or Triple stacked applications
- New Removable covers allows easy servicing in Double and Triple stacked configurations
- PC Control possible with BARCO's Windows Communication Software
- Computer controlled programmable blanking allows projection in a user-defined shape ranging from circles, squares and lines

(1) Further information is available on request.
(2) Requires an 0n-Axis kit p.n. R769886K




| Dimensions | inch | mm |
|---|---|---|
| L1[4] | 47.60-49.57 | 1,209-1,259 |
| L2 | 27.64 | 702 |
| L3 | 1.65 | 42 |
| L4[4] | 4.33-6.30 | 110-160 |
| L5 | 1.06 | 27 |
| W1 | 24.80 | 630 |
| W2 | 5.31 | 135 |
| W3 | 11.18 | 284 |
| H1 | 16.61 | 422 |
| H2 | 15.71 | 399 |
| H3 | 8.23 | 209 |

| Shipping Dimensions | inch | mm |
|---|---|---|
| L | 53.15 | 1,350 |
| W | 24.80 | 950 |
| H | 26.77 | 680 |

**Safety Regulations**
The BARCOREALITY 9300 complies with UL1950 and EN60950

**Electromagnetic Interference**
The BARCOREALITY 9300 complies with FCC Rules & Regulations, part 15 Class A and CE EN55022 Class A

**Warm-up Time**
Less than 3 minutes to meet full specifications

**AC Power**
Power factor pre-regulated SMPS, 240 VAC±10%/50-60 Hz

**Power Consumption**
Max. 2,300 watts [230 VAC/10 A]
Dissipation: Max. 7,900 BTU/hr

**Weight[3]**

| | |
|---|---|
| Net weight | 207 lbs./ 94 kg |
| Shipping weight | 273 lbs./124 kg |

**Accessories Included**
- Infrared Remote Control
- Owner's & Installation Manual
- Power Cord with CEE (7) VII Plug

**Order Information**

| | |
|---|---|
| BARCOREALITY 9300[3] with MOCA | R9001560 |
| RCVDS 05 Source Selector 230 V | R9828700 |
| Remote Infrared Receiver | R9827516 |
| Windows Communication Software | R9829670 |
| Multifunctional Frame | R9829651 |
| Vertical Mirror for Multifunctional Frame | R9829680 |
| Flight Case for projector + Frame | R9829720 |
| Ceiling Mount 5/8/9000 | |
| • With Pulley System | R9829620 |
| • Without Pulley System | R9829621 |
| 1800 W Metal-Halide Lamp | R9829715 |
| Service Tool Kit | R9829241 |
| Light Shutter | R9829270 |

(3) Without lens or modular inputs. Lenses and modular inputs are sold separately.
(4) With QHD(4.0:1) lens. Dimensions for other lenses are available on a separate data sheet

DESIGNED UNDER ISO 9001

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.

BARCO Projection Systems Head Office
Noordlaan 5 8520 Kuurne, Belgium
Tel: +32 56 36 82 11 Fax: +32 56 35 16 51
E-mail: sales.bps@barco.com
Visit BARCO on the web: http://www.barco.com

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