

# BARCODATA 3300

## Compact, High Performance Light-Valve Projector

The BARCODATA 3300 is a new high performance single lens Liquid Crystal light-valve projector which delivers a high light output of 2,000 lumens full white on screens up to 10 m (33 ft.) wide. The BARCODATA 3300 is equipped with BARCO's advanced TCR<sup>Plus</sup> video processing which optimizes the image quality of all video sources. Its compact design, easy set-up, unequalled compatibility and flexibility make it a powerful and dynamic presentation tool for both front and short-throw rear screen projection for boardrooms, training centres, rental business, lecture halls, trade shows, auditoriums...

### Transportable Presentation Power for Demanding Video and Data Applications

The BARCODATA 3300 delivers a high light output and rich contrast. The innovative optical system offers crystal clear images, even in high ambient conditions. Video and data sources benefit from BARCO's TCR<sup>Plus</sup> (True Color Reproduction) processing which greatly optimizes the image quality.

- Powerful 700 Watts metal-halide lamp
- High resolution 3.2" active matrix LCDs
- Optional SDI digital input (4:2:2) with active loop-through
- Optional 5-Cable input accepts Video, S-Video, Component Video and RGB Analog input signals
- Broadcast quality decoder
- Screen sizes up to 10 m (33 ft.) wide
- A compact, light weight chassis complemented by an ergonomically styled cabinet
- Built-in stereo audio amplifier (2x10 W) and loudspeaker (15 W)

### Universal, Flexible LCD Projector

- Can display Video images in Composite, S-Video, Component (Y, R-Y, B-Y) or RGB Analog format and serial digital video (4:2:2)
- Compatible with all desktop and laptop computers, Macintosh computers as well as electronic workstations with a resolution up to 1280 x 1024 pixels
- A complete range of high definition lenses
- User adjustable geometry corrections (Keystone, Image Size, Shift...)
- Can be doubled stacked using BARCO's Multifunctional Frame
- Table or Ceiling Mount configuration, on Front or Rear screens
- Can be controlled from a PC through BARCO's optional Windows Communication Software
- User selectable White Point (3200 K, 5400 K, 6500 K, 9300 K or custom) for perfect colorimetry in any application



# Flexible, Ultra-Bright Video and Data Digital Light Cannon Projector

## Unsurpassed Picture Quality through BARCO's unique TCR<sup>Plus</sup> Video Processing

Conventional LCD projectors provide less than satisfying picture quality on Video sources. To improve image quality, BARCO has introduced TCR<sup>Plus</sup>, an advanced video processing circuit which offers sharp, stable projected images with rich color depth and significantly reduced visible noise.

### Enhanced Video De-Interlacing Ensures Stable Images

The sharpness and stability of both still and moving images is guaranteed by the intelligent adaptive TCR<sup>Plus</sup> processing, which totally eliminates interlace jitter.

### Motion Adaptive Noise Reduction

BARCO's TCR<sup>Plus</sup> incorporates an advanced Digital Noise Reduction system that reduces video noise without the motion artifacts. The Digital Noise Reduction can be user-adjusted to eliminate noise and pixel jitter on all video, HDTV and computer data sources.



### Sharper Picture Display

Improved composite video processing circuits deliver sharper pictures thanks to a new "edge" enhancement circuit. An improved fine tuning control is also built-in for superior picture control.

### Dynamic Color Depth

BARCO's TCR<sup>Plus</sup> technology uses advanced, real-time picture analysis, to grade and precisely control the color contrast of each image pixel. The amount of saturation and contrast is adjustable to obtain superior picture performance with any video source, even for the most demanding viewer.

### Optional Serial Digital Input

BARCO's Serial Digital input allows the direct connection of digital video sources. An active loop-through is provided for monitoring or for double and triple stacking applications.



*Three modular input slots are provided for video and RGB analog inputs.*



# Technical Specifications

## Light Output

2,000 lumens full white  
1,600 ANSI lumens  
Brightness uniformity:  
> 75% for the total screen.

## LCD Panels

3 active matrix LCD panels (3.2" diagonal), with a resolution of 800 x 600 pixels, totalling an overall resolution of over 1 million pixels and selected for a minimum of pixel defects<sup>(1)</sup>

## Lamp

700 Watts metal-halide hot restrike lamp

## Available Lenses

- Fixed focal length lenses: Lenses are available with a throw ratio of 1.2, 2.3, 3.4, 5.0, 6.0, 7.0:1 and 0.8 (for on-axis only)
- Zoom lenses: Two zoom lenses are available with a throw distance between 3 and 6 times the screen width and between 1.7 and 3 times the screen width

Lens Type	Order No.
MD (0.8) <sup>(2)</sup>	R9829630
MD (1.2:1)	R9829470
MD (2.3:1)	R9829340
MD (3.4:1)	R9829350
MD (5:1)	R9829360
MD (6:1)	R9829370
MD (7:1)	R9829380
MD (1.7-3:1) (zoom)	R9829335
MD (3-6:1) (zoom)	R9829590

## Screen Sizes

Min.: 1 m x 0,75 m (3.3' x 2.5')  
Max.: 10 m x 7,5 m (33' x 25')

## Contrast Ratio

>150:1 on 5x4 B/W checkerboard  
>300:1 full field contrast

## Remote Control

All controls are accessible through a soft-touch panel or a user-friendly backlit infrared remote control.

- Source switching
- User settings per source
- Installation and service adjustments

## Inputs

The projector has 3 modular input slots one of which may be a serial digital input (SDI). Five different types of input modules are available for the modular slots:

- 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
- Serial digital input, takes up 1 slot permanently if opted for

Built-in Input Facilities:

- RS232 loop-through input (D9-connector) for PC based projector control.



*BARCO's Windows Communication Software package makes it possible to control 256 BARCODATA 3300 projectors from a central host computer. Settings and parameters can be easily adjusted and saved on disk.*

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
SDI	R9829810

- Communication input (D9-connector) for peripherals

## Audio

- Built-in stereo audio amplifier (10 W RMS)
- 15 W loudspeaker
- 3 stereo audio inputs on 2 x RCA
- Stereo audio output on 2 x RCA for external audio amplifier

(1) Further information is available on request.

(2) Requires an On-Axis Kit to be installed, Order No. R813072K.

## Multifunctional Frame



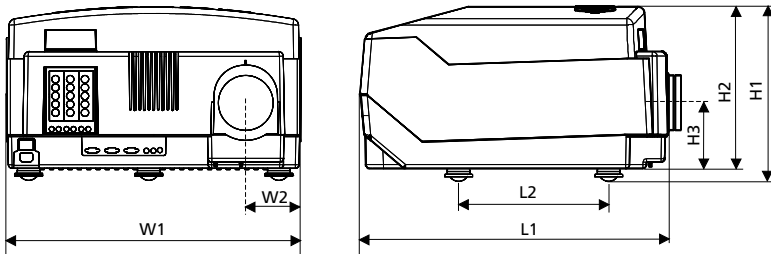
BARCO's Multifunctional Frame facilitates carrying the

BARCODATA 3300 and protects the projector against impacts. In addition, it allows quick and easy set-up of the projector for Dual or Triple stacked applications (Dual Mount Kit required), in either a Table or Ceiling Mount configuration.

The projector can also be used in a vertical position in combination with a special mirror (not for MD(1.2:1) and zoom lenses). The Multifunctional Frame's rugged light weight design makes it ideally suited to the rental business and all applications

where transportability is an important consideration.





Dimensions	inch	mm
L1	26.06	662
L2	12.68	322
W1	24.92	633
W2	4.65	118
H1	14.65	372
H2	13.62	346
H3	5.55	141

Shipping Dimensions	inch	mm
L	38.58	980
W	32.67	830
H	24.02	610

### Compatibility

The BARCODATA 3300 is compatible with:

- All video sources in composite, S-VHS, RGB, component and serial digital formats
- All currently proposed HDTV, extended and improved television standards (ACTV, IDTV, EDTV, Hi-Vision, Eureka 95,...)
- All computer graphics formats from VGA (640x480), SuperVGA (800x600), XGA (1024x768) up to 1280 x 1024 pixels/75 Hz
- Most Macintosh computers
- Electronic workstations with a resolution up to 1280 x 1024 pixels/75 Hz
- Most sources with a pixel clock <135 MHz

### Special Features

- Built-in Adjustable Lensholder: Vertical shift: ±15 mm Horizontal shift: ±5 mm
- Internal Test Patterns (crosshatch, grayscale,...)
- 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
- Adjustable levelling feet
- Color temperature adjustment (3200K, 5400K, 6500K, 9300K or custom)
- PC control possible with BARCO's Windows Communication Software

- Adjustable geometry corrections (Keystone, Image Size, Shift,...)
- Built-in Freeze facility
- Optional Light Shutter blanks image when paused

### Safety Regulations

The BARCODATA 3300 complies with UL1950 and EN60950

### Electromagnetic Interference

The BARCODATA 3300 complies with FCC Rules & Regulations, part 15, Class B

### Warm-up Time

Less than 2 minutes to meet full specifications

### AC Power

Power factor pre-regulated SMPS, 120 VAC/60 Hz 230 VAC/50 Hz

### Power Consumption

970 W @120 V / 8.2 A  
940 W @230 V / 4.2 A

### Thermal Dissipation

3,310 BTU/hr

### Weight<sup>(3)</sup>

Net weight 99 lbs./ 45 kg  
Shipping weight 126 lbs./ 57 kg

### Accessories Included

- Infrared remote control
- Owner's & installation manual
- Power cord with ANSI 73.11 plug

### Order Information

BARCODATA 3300 <sup>(4)</sup>	R9001450
RCVDS 05 Source Selector	
230 V	R9827880
Remote Infrared Receiver	
	R9827515
Multifunctional Frame	R9829300
Dual Mount Kit	R9829440
Vertical Mirror	R9829390
Flightcase	R9829310
Ceiling Mount 2/3000	
• With Pulley System	R9829610
• Without Pulley System	R9829611
700 Watts Metal-Halide Lamp	
	R9829580
Service Tool Kit	R9829400
Light Shutter	R9829410
Windows Communication	
Software	R9829670
MAGIC INTERFACE	
230 v	R9828121
MAGIC INTERFACE KIT	
(including cables)	
230 V	R9828120

(3) Without lens.

(4) Order number for a BARCODATA 3300 without inputs nor lens. When digital input option installed, only 2 modular input slots are available. Lenses and inputs are sold separately.



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.

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