

# BARCODATA 8200

## High Brightness LCD Light-Valve Video and Data Projector

The BARCODATA 8200 is a high brightness LCD light-valve Video and Data projector. Based on BARCO's proven LCD light-valve technology, the BARCODATA 8200 offers a very high light output of 2,800 lumens full white on screens up to 15 m (50 ft.) wide. Equipped with a proprietary Pixel Map Processor, the unit displays all major computer data formats with a resolution up to 1,180 x 900 pixels/60 Hz, as well as all Video sources (PAL, SECAM, NTSC). This makes it a powerful display device for staging and rental applications, auditoriums, theatres, corporate and software presentations, sports events,....

### **Broad compatibility**

- Video sources (PAL, SECAM, NTSC) in Composite, S-VHS, Component (Y, R-Y, B-Y), and RGB format
- Most computer signals from PC graphics boards: CGA, EGA, VGA, S-VGA, XGA, up to 1,180 x 900 pixels/60 Hz
- Electronic workstations with a resolution up to 1,180 x 900 pixels/60Hz
- Most Macintosh computers
- Most computer sources with a pixel clock <80 MHz

### **Highly advanced optical system**

The BARCODATA 8200 displays extremely bright and crystal clear images on screens up to 15 m (50 ft.) wide.

- Powerful 650 W metal-halide lamp
- Three active matrix 5.8" LCD panels with a resolution of 756 x 556 pixels

### **Ultimate flexibility**

- User adjustable geometry corrections (keystone, image size, shift...)
- Wide range of high-definition lenses are available
- Extensive user facilities including zoom, freeze and built-in test patterns
- Can be easily installed in table or ceiling mount configuration, and can project onto any front or rear screen
- Dual or triple mount configurations

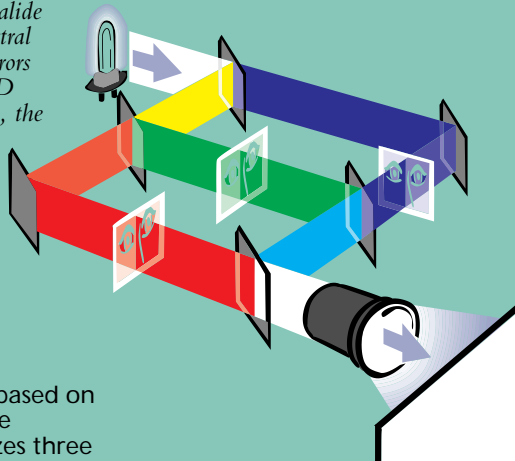


**BARCO**

# High brightness, high resolution LCD data projector

## State-of-the-art LCD technology

*The light from the metal-halide lamp is split into three spectral components by dichroic mirrors and modulated by the LCD panels. After recombination, the picture is enlarged onto the screen by the projection lens.*

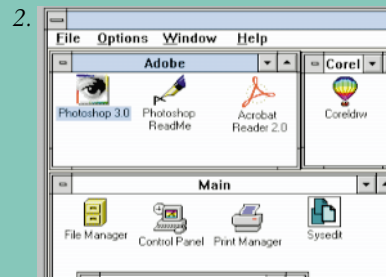
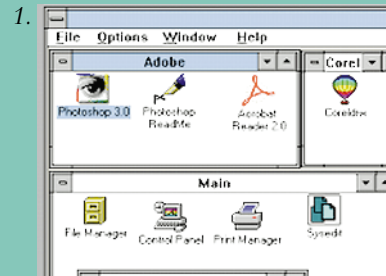


The BARCODATA 8200 is based on BARCO's LCD light-valve technology which utilizes three 5.8" active-matrix LCD panels with a resolution of 756 by 556 pixels.

Equipped with a high-performance, proprietary Pixel Map Processor, the BARCODATA 8200 is compatible with all PC graphics standards up to a resolution of 1,180 x 900 pixels/60Hz, including CGA, EGA, VGA, SuperVGA (800x600) and XGA (1,024x768), as well as workstations up to 1,180x900 pixels.

The Pixel Map Processor converts all incoming signals to the full resolution of the LCD panels in order to maximise the light output and resolution of the projector.

The Pixel Map Processor calculates every pixel to be displayed by means of state-of-the-art digital signal processing techniques. The result is optimal picture quality, with smooth and exceptionally readable characters.



*BARCO's Pixel Map Processor converts all incoming signals to the full resolution of the LCD panels, resulting in an optimal picture quality with exceptionally readable characters.*

*1. Detail of image projected after conversion by a conventional scan converter.*

*2. Detail of image projected after conversion by BARCO's intelligent Pixel Map Processor.*

## Flexible installation configurations

The BARCODATA 8200 can be used in front or rear screen installations, and in table or ceiling mount configurations. In addition, the projector can be integrated in a dual or triple stacked configuration on a single screen. User adjustable geometry corrections (keystone, image size, shift,...) provide perfect image geometry for non-standard applications.

## Easy set-up and control

The BARCODATA 8200 employs user-friendly on-screen menus which are accessible through a convenient backlit infrared remote control unit.



*A convenient backlit infrared remote control unit facilitates control and adjustment of the BARCODATA 8200.*



*Easy-to-use, user adjustable geometry corrections guarantee perfect image geometry for almost any installation.*

Extensive user facilities, including zoom, freeze and built-in test patterns, provide superior control and unmatched versatility for a wide variety of applications.

# Technical specifications

## Light output

AC Power mode	Full white Lumens	ANSI Lumens
230 VAC operation	2,800	2,500
120 VAC operation	2,300	2,000

Brightness uniformity:  
> 80% for the total screen area.

## LCD Panels

3 active matrix LCD panels (5.8" diagonal), with a resolution of 756 x 556 pixels, resulting in an overall resolution of over 1.2 million pixels, and selected for a minimum of pixel defects<sup>(1)</sup>.

## Lamp

650 W metal-halide hot restrike 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 or 7.0:1.
- Variable focus lenses:
  - throwing distance = 1.5 - 3 times the screen width
  - throwing distance = 3 - 5.3 times the screen width
- Anamorphic lens with a throw ratio of 3.5:1 (16:9 aspect ratio)

Available lenses	Order nr
HD (1.2:1)	R9829200
HD (2.2:1)	R9829060
HD (3.3:1)	R9829075
HD (4:1)	R9829145
HD (5:1)	R9829180
HD (7:1)	R9829090
HD (1.5-3:1) (zoom)	R9829150
HD (3-5.3:1) (zoom)	R9829190
WHD (3.5:1) (anamorphic)	R9829320
HD (0.9:1) <sup>(2)</sup>	R9829550



- Lens with a very short throw ratio of 0.9:1, for use with a special version of the BARCODATA 8200

## Screen sizes

Min.: 1.0 m x 0.75 m (3.3' x 2.5')  
Max.: 15 m x 11.25 m (50' x 37.5')

## Contrast ratio

> 140:1 (on 5x4 B/W checkerboard)  
> 350:1 (full white / full black)

## 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 four input slots. Four different types of input modules are available:

- Video/S-Video input: Video on BNC, S-Video on 4-pin 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
- Furthermore, there are:
- RS232 loop-through input (D9-connector) for PC based projector control
  - Communication input (D9-connector) for peripherals

## Compatibility

The BARCODATA 8200 is compatible with:

- All video sources (PAL, SECAM, NTSC 3.58 and NTSC 4.43) in Composite, S-VHS, RGB or Component formats
- All currently proposed HDTV, extended and improved television standards (Eureka 95, Hi-Vision, ACTV, IDTV, EDTV,...)
- All computer graphics formats from CGA, EGA, VGA (640x480), S-VGA (800x600), XGA (1,024 x 768), up to 1,180 x 900 pixels/60Hz
- Most Macintosh computers
- Electronic workstations with a resolution up to 1,180x900 pixels
- Most computer sources with pixel clock < 80 MHz



*The BARCODATA 8200 has a modular input design, which accommodates a variety of input modules for different video and computer data sources.*

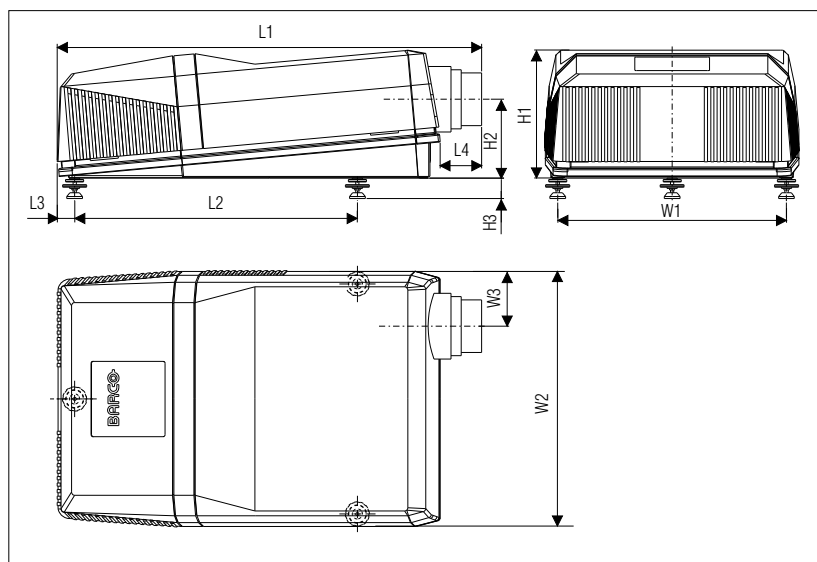
Inputs	Order Nr
Video/S-Video	R9827900
RGB analog (standard sync)	R9827910
RGB analog (Tri-level sync)	R9827920
Component Video	R9827930

## Special features

- Extensive geometry adjustments (keystone, image size, shift,...), can also be adjusted through the RS232 communication port
- Extended user facilities including zoom, freeze,...
- Internal test patterns (hatch, colour bars, greyscale,...)
- External auto-diagnostics with 2x7 segment LED display
- Intuitive on-screen display: installation and service screens, barscale display of user settings, on-screen display of selected source
- Colour temperature adjustment (3200 K, 6500 K, 9500 K or custom)
- Built-in help menus
- RS232 control
- Adjustable leveling feet
- Optional light shutter blanks image when paused
- An optional stacking 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
- Optional built-in adjustable lens holder, ideal for dual or triple stacked configurations

<sup>(1)</sup> Further information is available on request.

<sup>(2)</sup> Requires a special version of the BarcoData 8200.



Dimensions <sup>(4)</sup> mm		inch
L1	1,022-1,162	40.24-45.75
L2	702	27.64
L3	43	1.69
L4	70-210	2.76-8.27
W1	569	22.40
W2	630	24.80
W3	135	5.32
H1	316	12.44
H2	195	7.68
H3	43-50	1.69-1.97

### Safety regulations

The BarcoData 8200 complies with UL1950 and EN60950

### Electromagnetic interference

The BarcoData 8200 complies with FCC Rules & Regulations, part 15 Class A and CE EN 55022 Class A

### Warm-up time

Less than 2 minutes to meet full specifications

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

Net weight : 70 kg (154 lbs)  
Shipping weight: 110 kg (242 lbs)

### AC power

Power factor pre-regulated  
SMPS, auto-ranging from 85 to 255 VAC.

### Power consumption

900 W@230 V/4 A  
870 W@120 V/7.3 A

### Order information

BarcoData 8200<sup>(3)</sup> R9001250

RCVDS 05 source selector

230 V: R9827880

120 V: R9827889

VS05 Video/HDTV source selector

R9827890

Remote infrared receiver

R9827515

Ceiling mount CM 100 LCD

• With pulley system: R9829620

• Without pulley system: R9829621

Carrying handle

R9829170

Projection frame

R9829210

Flight case

R9829120

Multifunctional flight case

R9829110

Metal-halide lamp

R9829295

Service toolkit

R9829240

Light shutter

R9829270

Executive remote control

R9827970

<sup>(3)</sup> Without lens nor inputs. Lenses and inputs are sold separately.

<sup>(4)</sup> With HD(4:1) lens. Dimensions for other lenses are available on a separate datasheet.

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.