BARCOGRAPHICS 2100

Single Panel, High Resolution LCD Graphics Projector

The BARCOGRAPHICS 2100 is a compact, portable high resolution single panel LCD projector. Equipped with an advanced Pixel Map Processor and a high resolution XGA LCD panel, the BARCOGRAPHICS 2100 is compatible with most of today's PC graphics boards and electronic workstations with resolutions up to 1,280 x 1,024 pixels. The wide compatibility, fast, easy set-up and extreme versatility of the BARCOGRAPHICS 2100 make it a powerful display device for high resolution presentations, simulation, CAD/CAM and process control applications.

Plug & Play graphics projector
The BARCOGRAPHICS 2100 is truly a 'Plug and Play' portable large screen graphics projector.
• 575 W metal-halide lamp
• Active matrix colour LCD panel with XGA resolution (1,024 x 768 pixels)
• Screens up to 6 m (20 ft.) wide
• Built-in stereo audio amplifier and loudspeakers (2x10 W)
• A wide range of lens options are available

Wide compatibility
• All NTSC Video sources in Composite, S-VHS or RGB format
• All PAL/SECAM Video sources in progressive scan format
• All computer graphics formats from CGA, EGA, VGA, SuperVGA (800 x 600), XGA (1,024 x 768) up to S-XGA (1,280 x 1,024)
• Electronic workstations with resolutions up to 1,280 x 1,024 pixels
• Most computer sources with a pixel clock <135 MHz

Extremely user-friendly and versatile projector
• Logical on-screen menus, accessible through a convenient backlit infrared remote control unit
• User adjustable geometry corrections: Image size, shift, keystone,...
• Extensive user facilities including freeze and built-in test patterns
• RS232 serial communication input
• Table or ceiling mount configuration
• Front or rear screens

Compact, high resolution
LCD graphics projector
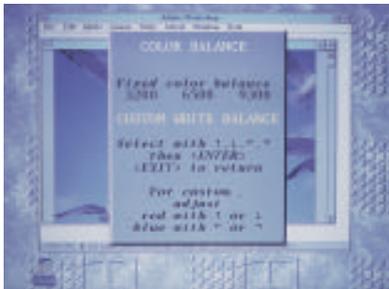
Logical menus and intuitive on-screen displays greatly simplify control and set-up of the BARCOGRAPHICS 2100 .

Flexible installation configurations

The BARCOGRAPHICS 2100 can be used in front or rear screen installations, and in table or ceiling mount configurations. The projector can be used in a horizontal as well as vertical position. The BARCOGRAPHICS 2100 is factory adjusted for a 70 % off-axis projection.

The unit can be adapted for use in a 100 % off-axis configuration by means of additional leveling feet (only with SD(1.6-1.9:1) zoom lens).

An optional Off-axis to On-axis Kit converts the BARCOGRAPHICS 2100 for on-axis projection, particularly useful for rear-screen installations.
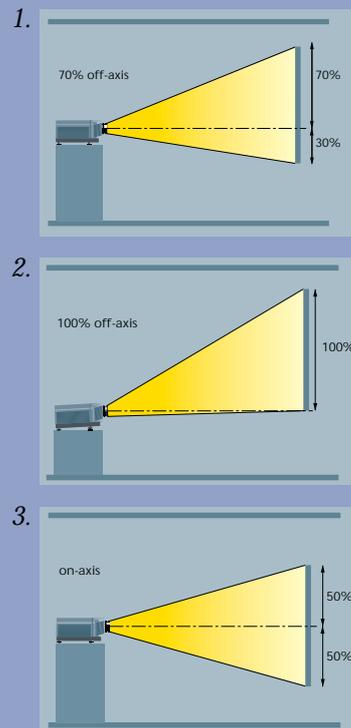
Logical on-screen menus
The BARCOGRAPHICS 2100 features intuitive on-screen menus, accessible through a convenient backlit infrared remote control unit.

Extensive user facilities including image size, shift, keystone, freeze and built-in test patterns provide superior control and unmatched versatility.

Intelligent Pixel Map Processor
The BARCOGRAPHICS 2100 is equipped with a patented, high-performance Pixel Map Processor. This 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.
The integration of the Pixel Map Processor enables the BARCO-GRAPHICS 2100 LC to display a wide range of computer data and graphics standards including CGA, EGA, VGA, SuperVGA (800x600), XGA (1,024x768) and S-XGA (1,280x1,024), and electronic workstations with resolutions up to 1,280x1,024 pixels without any loss of information.

(1) Putting unit in 100% off-axis configuration influences corner sharpness.

Technical specifications

Light output
700 lumens full white
550 ANSI lumens
Brightness uniformity:
> 70% for the total screen area.

LCD panel
Single 10″ active matrix colour
LCD panel with XGA resolution
(1,024x768), selected for
a minimum of pixel defects.[2]

Lamp
575 Watt metal-halide 'hot
restrike' lamp
Expected lifetime: 1,000 hours[3]

Available lenses
• Fixed focal length lenses are
available with a very short throw
ratio of 0.8:1.
• A variable focus lens is available
with a throw ratio between 1.6:1
and 1.9:1.

Lens type	Order nr
QSD (0.8:1)[4]	R9829640
QSD (1.2:1)	R9829730
QSD (1.6-1.9:1) zoom	R9829660

A convenient backlit infrared remote control unit provides quick and easy access to all adjustments of the BARCO-GRAPHICS 2100.

The BARCOGRAPHICS 2100 has a built-in source switcher to accommodate a wide range of video and computer data sources.

Screen sizes
Min.: 1.0 m x 0.75 m   (3.2′ x 2.4′)
Max.: 6.0 m x 4.5 m   (20′ x 15′)

Contrast ratio
>200:1 (on 5x4 B/W checkerboard)
>400:1 (full white/full black)

Inputs
The projector has 5 inputs:
• Port 1: Video on BNC connector
• Port 2: Video on Cinch (RCA)
connector
• Port 3: S-Video on 4-pin mini-
DIN connector
• Port 4 & 5: RGB analog input
on 5 BNC connectors, sync on
green or separate sync, sync can
be 2-level or 3-level
• 3 stereo audio inputs on Cinch
(RCA) connectors
• RS232 input (D9 connector)
loop-through for projector
control through a PC or other
control unit
• Communication input (D9
connector) for peripherals
• Mini-jack (3.5 mm) for wired
remote control

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
• Audio controls (infrared
remote only)

Compatibility
The BARCOGRAPHICS 2100 is
compatible with:
• All NTSC Video sources in
Composite, S-VHS or RGB format

• All PAL/SECAM Video sources in
progressive scan format
• All computer graphics formats
from CGA, EGA, VGA (640x480),
SuperVGA (800x600), XGA
(1,024x768) up to S-XGA
(1,280x 1,024)
• Most Macintosh computers
• Electronic workstations with a
resolution up to 1,280 x 1,024
pixels
• Most computer sources with a
pixel clock <135 MHz

Special features
• Built-in freeze facility
• Extensive geometry corrections
including image size, shift,
keystone,...
• Internal test patterns (outline,
colour bar, checkerboard,...)
• External auto-diagnostics with
2 x 7 segment LED display for
source selection and error codes
• Adjustable leveling feet
• Intuitive on-screen display:
Installation and service screens,
barscale display of user settings,
on-screen display of selected
source
• Colour temperature adjustment
(3200K, 6500K, 9300K or custom)
• An off-axis to on-axis kit is
available which can convert a
BARCOGRAPHICS 2100 for on-axis
projection, ideal for rear-screen
applications

(2) Further information is available on request.
(3) For applications with projectors in continuous
operation, BARCO offers an optional Long Life
Lamp, which provides 2,000 hours lifetime with
approximately 10 % reduction in initial luminance.
(4) On-axis only.
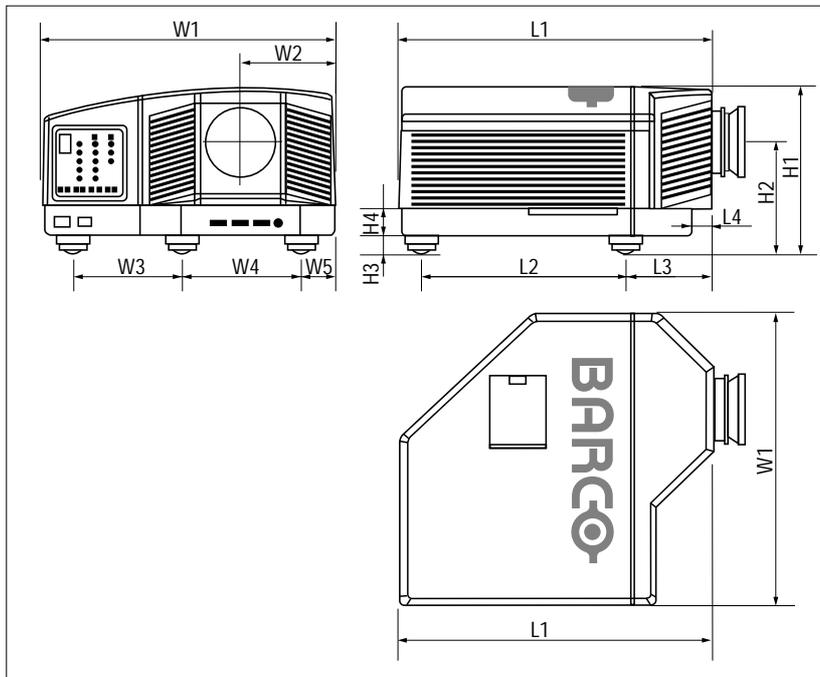
Dimensions	mm	inch
L1	642	25.28
L2	405	15.94
L3	201	7.91
L4	63	2.48
W1	603	23.74
W2	195	7.68
W3	225	8.86
W4	245	9.65
W5	68	2.68
H1	335	13.19
H2	224	8.82
H3	35	1.38
H4	55	2.17

Ceiling mount 2/3000
• With pulley system   R9829610
• Without pulley system R9829611

575 W metal-halide lamp
                                          R9829510

Long life lamp[3]   R9829600

Kit off-axis to on-axis   R9829700

Service tool kit   R9829530

Windows Communication
software   R9829670

Audio
• Built-in stereo audio amplifier (2 x 10 W rms)
• 2 x 10 W loudspeakers
• Stereo audio output on 2xCinch (RCA) connectors

Safety regulations
The BARCOGRAPHICS 2100 complies with UL1950 and EN60950

Electromagnetic interference
The BARCOGRAPHICS 2100 complies with FCC Rules & Regulations, part 15 Class B and CE EN 55022 Class B

Warm-up time
Less than 2 minutes to meet full specifications

AC power
Switchable between 120 VAC and 240 VAC

Power consumption
750 watts

Weight[5]
Net weight   24 kg   (53 lbs)
Shipping weight 41 kg   (90 lbs)[6]

Accessories included
• Infrared remote control
• Owner's & installation manual
• Power cord with CEE (7)VII plug

Order information
BARCOGRAPHICS 2100   R9001150

RCVDS 05 source selector to connect a wide range of video, data and graphics sources to the projector
230 V: R9827880
120 V: R9827889

Remote infrared receiver
                                          R9827515

(5) Without lens.
(6) With MAGIK interface.

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

BARCO