RETROGRAPHICS 808S

High Resolution, Rear Screen Projection System

BARCO's RetroGraphics 808s projector is a high-performance, stand-alone rear screen projection system, capable of displaying high resolution images with outstanding light output, rich contrast and exceptional clarity under high ambient lighting conditions. The RetroGraphics 808s is ideally suited for a wide range of high resolution display applications including: presentation, training and conference centers, CAD/CAM imaging, process control rooms, surveillance centers, simulation and virtual reality environments.

Outstanding Image Quality
Based on an advanced optical concept, the RetroGraphics 808s offers razor sharp and crystal clear images, even under high ambient light conditions.
• High-definition 8″ CRTs with electromagnetic focus system
• Single front surface-coated optical grade mirror
• F1.1 color corrected hybrid liquid coupled lenses
• 67″ super fine pitch Fresnel/Lenticular-Blackstripe screen with very wide horizontal and vertical viewing angles
• Built-in IRIS[3] automatic alignment system aligns on-screen convergence and geometry in less than 2.5 minutes
• Optional built-in Video Line Doubler improves Video image quality

Broad Compatibility
The RetroGraphics 808s features a display compatibility from VHS video up to 1,600 by 1,200 pixel workstations.
• Horizontal autolock scan frequency of 15-110 kHz
• Vertical scan frequency of 37 -200 Hz
• RGB bandwidth of 120 MHz
• Universal connection possibilities

IRIS[3]
intelligent tuning

New!

Now with Built-in
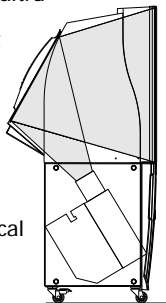IRIS[3] Auto-Convergence
and Auto-Geometry

BARCO

High brightness, high resolution rear screen projection system

State-of-the-art Optical System
The RetroGraphics 808s incorporates three high-definition 8″ CRTs with an electromagnetic focus system, F1.1 color corrected hybrid lenses and a single front surface-coated mirror. This results in the projection of ultra-sharp images with extremely high light output.

A proprietary Fresnel / Lenticular-Blackstripe screen with a fine pitch of 0.52 mm offers not only a very wide horizontal and vertical viewing angle, but also crystal clear images, even under high ambient light conditions.

Easy Set-up and Control
The RetroGraphics 808s is based on BARCO's advanced digital architecture which provides user-friendly remote control of all set-up and display functions.

Extremely precise, yet simple adjustments are accomplished through intuitive, on-screen menu-driven displays.

Built-in Audio Capabilities
The RetroGraphics 808s is equipped with a high fidelity stereo audio amplifier (2x15 W) and two frontal 2-way speaker systems (20 W). This eliminates the need of external audio equipment for the playback of video and RGB signals with audio.
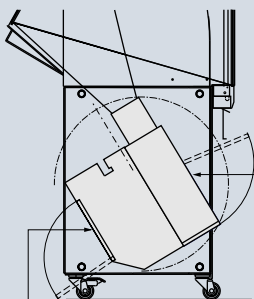
Easily Transportable Cabinet
The RetroGraphics 808s has a lightweight, easily transportable cabinet with a retractable mirror assembly, which fits through any standard door opening.

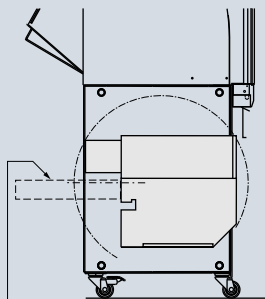*A convenient snap lock system firmly locks the retractable mirror into position*
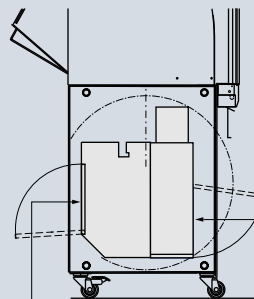
Highly flexible mechanical design

Operating position

Access electronic unit
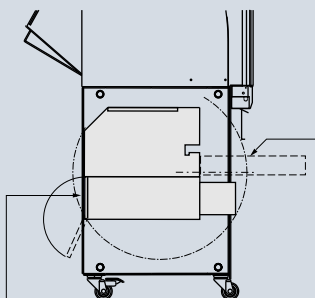Access CRT unit

Service position 1

Access convergence unit
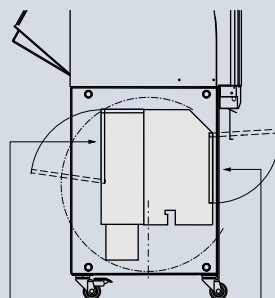
Service position 2

Access electronic unit
Access CRT unit

Service position 3

Access convergence unit
Access CRT unit

Service position 4

Access convergence unit
Access CRT unit

The RetroGraphics 808s is based on an innovative mechanical concept. The projector chassis can be easily rotated in order to get full access from the front or the rear side of the projector, which facilitates installation and maintenance of the projector.

Technical Specifications

Luminance
At 10% peak white:
1,250 Nit / 364 ftL.

ANSI:
Economy mode: 139 Nit / 41 ftL.
Normal mode: 195 Nit / 57 ftL.
Boost mode: 214 Nit / 62 ftL.

CRTs
High brightness, high definition, liquid cooled 8" electromagnetic focus CRTs

Lenses
High definition, fully colour corrected, liquid coupled F1.1 hybrid lenses

Optical Resolution
10 lp/mm at 50% MTF throughout the field

Projection Screen
• Size (diagonal): 67″ (1.7 m)
• Type: Fresnel/Lenticular Blackstripe
• Pitch: 0.52mm
• Viewing angle (50% brightness)
Horizontal: ± 42°
Vertical: ± 13°

Scan Frequencies
Horizontal: 15-110 kHz autolock
Vertical: 37 -200 Hz autolock

Minimal Retrace Time
Horizontal: < 2.5 µs
Vertical: < 200 µs

Horizontal Linearity
< ±1.5% distortion in the full horizontal frequency range

RGB Bandwidth
120 MHz [-3 dB]

Inputs
• RGB or Component (R-Y, B-Y, Y) input on 5 BNC-connectors, sync on green or separate sync, automatic sync polarity, composite sync or H/V sync
• RGB analog input on D9-connector with automatic sync detection and sync polarity (optional D9-BNC adapter available)
• Video (PAL, SECAM, NTSC 3.58, NTSC 4.43), loop-through (2xBNC) with 75 Ohm termination switch
• S-Video input (4-pin mini-DIN), loop-through with 75 Ohm termination switch can also be programmed as a second Video input

Special Features
• Built-in IRIS[3] Auto-Convergence and Auto-Geometry alignment system
• CRT drive in 3 modes: normal mode, economy mode for longer lifetime of the CRTs, and boost mode for special applications
• Multi-language on-screen menus: English, French, German and Spanish
• 32 frequency-related memory banks
• L.D.I. (Linear Digital Interpolation)
• Intuitive on-screen display: installation and service screens, barscale display of user settings, on-screen display of selected source
• Automatic storing of all adjustments
• Ability to set parameters to midposition
• Colour temperature adjustment (3200 K, 6500 K, 9300 K or custom)
• RS232 control
• Easily transportable cabinet with retractable mirror, fits through any standard door opening
• Light-weight design
• The special mechanical design of the projector chassis makes it possible to rotate the chassis in order to get full access from the front or the rear of the projector, which facilitates installation and maintenance
• Removable screen profiles allow the unit to be used in a side-by-side configuration with adjacent screen gap of less than 1.25″ (30 mm)
• Standard Windows Control Software included

Operator Controls
All controls are accessible through a soft-touch panel or a user-friendly backlit infrared remote control.
• Source switching
• User settings per source: sharpness, tint, colour, brightness, contrast and audio controls (volume, bass, treble, balance)
• Geometry per source (password protectable)
• Convergence per source (password protectable)
• An optional Executive Remote Control unit is available for control of source switching and limited adjustment of user settings

Audio
• Built-in stereo audio amplifier (2x15 W cont. sine wave), with 2 frontal 2-way speaker systems (2x20 W)
• Stereo audio input on 2 Cinch (RCA phono) connectors
• 2 audio DIN connectors for external loudspeakers
• Audio follows Video switching

Safety Regulations
The RetroGraphics 808s complies with UL1950 and EN60950.

Electromagnetic Interference
The RetroGraphics 808s complies with FCC part 15 Class B (120 V version) and CE EN55022 Class B (230 V version).

Radiation Regulations
The RetroGraphics 808s complies with DHHS radiation emission standards 21 CFR Subchapter J.
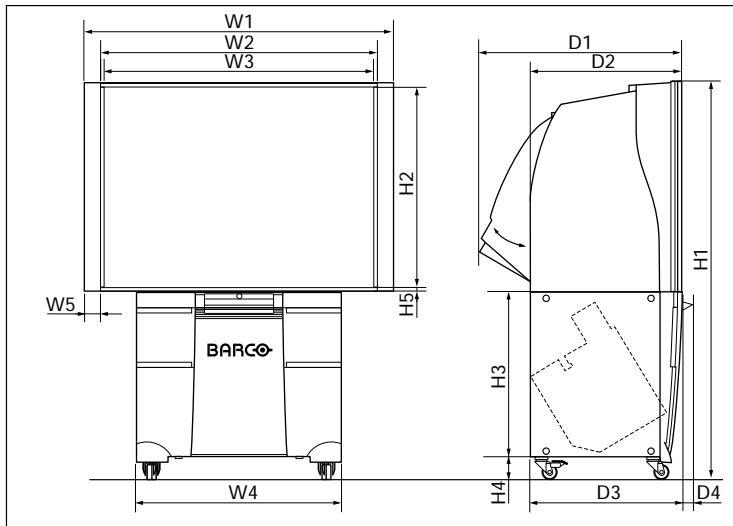
Weight
Net weight : 150 kg (331 lbs)
Shipping weight: 215 kg (474 lbs)

Power Consumption
550 Watts (nominal)

Thermal Dissipation
Max.1875 BTUs/hour

Dimensions	mm	inch
W1	1,535	60.42
W2	1,370	54.03
W3	1,341	52.81
W4	1,020	40.10
W5(1)	82	3.23
D1	996	39.21
D2	747	29.43
D3	743	29.25
D4	70	2.74
H1	1,969	77.53
H2	997	39.25
H3	820	32.27
H4	110	4.35
H5	22	0.85

Shipping Dimensions	mm	inch
Top		
W	1,530	60.24
D	910	35.83
H	1,310	51.57
Bottom		
W	1,150	45.28
D	870	34.25
H	1,180	46.46

Order information

RetroGraphics 808s
230V: R9002041
120 V: R9002048

RCVDS 05 source selector
230 V: R9827880
120 V: R9827889

LiDo Line Doubler Kit R9828161

Projector Control software
Advanced Version R9828690

Communication cables
- 5 m / 16 ft. R9827770
- 15 m / 50 ft. R9827560
- 30 m / 100 ft. R9827570

Executive remote control
R9827970

ACTAS Automatic color
temperature alignment system
230 V: R9827961
120 V: R9827968

Remote infrared receiver
R9827515

D9-BNC cable adapter R9827840

Tri-level sync input R9828040
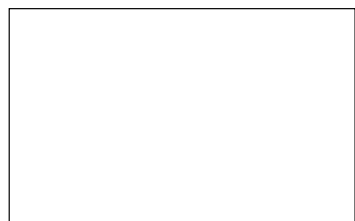Special add-in boards:
- Contrast modulation kit
R9828145
- Orbiting kit R9827781

(1) Side profiles are removable.

DESIGNED UNDER
ISO 9001

BARCO Projection Systems is an ISO 9001 registered company.

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