

Split-Pack projector series



for immersive displays in simulation and V&AR applications

Leading-edge technology in a rugged design for optimal flexibility in demanding limited-space applications. This product range combines outstanding light output with exceptional contrast and rich true color images for high performance visualization e.g. in ship bridge, flight and driving simulators.

Optimal Flexibility and Accessibility

The head of the projector can be placed 6.5 feet from the electronics chassis. Installations on motion-base platforms can have a lower center of gravity and the systems can be assembled in a vertical array.

Rugged Design

- Shock-resistant and vibration-proof mounting systems for motion platforms are available on request.
- The design relieves stress from cables to chassis.
- Certified connectors ensure optimal contact.
- Certification: CE, UL1950 (USA), EN60950.

High Quality Multiple Screen Images

- Through Barco's Contrast Modulation, Soft Edge Matching and Convergence on Green, overlapping zones are seamlessly blended in multiple screen applications.
- TSN™ 6-pole focus astigmatism correction for superb focus quality across the entire projected image.
- Digital AutoAlign™ automatically aligns all geometry and convergence parameters.
- Built-in Scheimpflug optical correction, with stepless adjustment, for optimal optical focus for off-axis projection (optimal focus under non-standard angles).

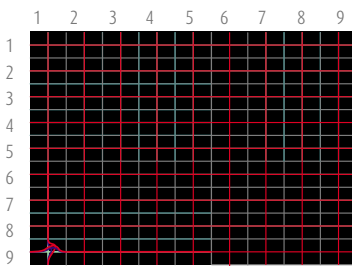
BARCO

Visibly yours

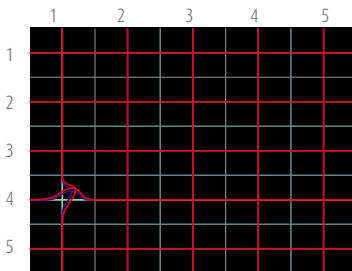
High precision digital projection system

Proprietary Digital Waveform Generation geometry & convergence correction

This unique feature offers digital control over all geometry, convergence, focus and astigmatism adjustments. The (patented) morph-interpolation algorithm enhances the digital waveform by suppressing all artifacts and generating smooth transitions. Convergence is adjustable in up to 81 independent zones as well as 25.



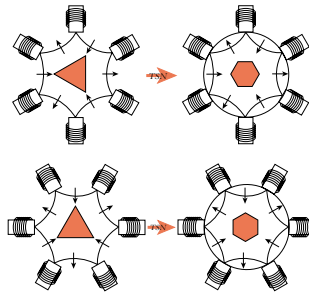
Fine convergence adjustment in 81 independent zones



Coarse convergence adjustment in 25 independent zones

Triangular Spot Nullifying™ (TSN)

Digitally controlled 6-poles offer advanced digital beam correction. Barco's TSN beam spot uniformity enhancement guarantees superb focus quality across the entire projected image.



TSN™ Digital 6 poles beam correction

Digital Dynamic Astigmatism (DDA)

Digital enhancement of the overall focus quality of the projected image.

Soft Edge Matching

This technique produces seamless screen transitions so the user can focus on objects and perceive them as true-to-life as possible.

Contrast Modulation

The output signal is corrected for maximum uniformity from center to edge for each screen. A superior color uniformity is achieved through modulation of the video signals with appropriate waveforms.

Advanced ABL control

The Barco SPLIT-PACK projectors makes use of an advanced ABL (Automatic Black Level) circuit to automatically ensure optimum contrast.

Flexible installation possibilities

Barco offers a series of special options for other applications (multi-screen applications, non-standard projection angles,...).

- Mosaic geometry correction: Flat, Curved, Off-axis
- Field extensions
- Optional convergence on green for enhanced geometric continuity and contiguous screen overlaps.
- SEMU II Soft Edge Modulation Unit
- Digital Contrast Modulation

... And many other application specific optimizations.

Please contact us for more details.

Self-diagnostics

Auto-detection and history log of all essential functions. These functions are accessible through the on-screen menu or over a network.



AutoAlign™

Optional Auto-Image Digital Auto-convergence and Auto-Geometry

Advanced Digital Alignment System effortlessly aligns the geometry and convergence of the projected image with exceptional accuracy, which makes CRT technology transparent for the every-day user.

Barco SPLIT PACK projector range

Electronics chassis

Scan Frequency

Horizontal: 30-180 KHz
Vertical: 37-240 Hz

Minimal Retrace Times

Horizontal: < 1.1 μ s in range 90-180 KHz
< 1.8 μ s in range 30-130 KHz
switching point adjustable
between 90 and 130 KHz
Vertical: < 200 μ s

Max. addressable display resolution

3200 x 2560 pixels

RGB Bandwidth

180 Mhz

Horizontal Linearity

< \pm 0.25 % distortion
@ 1280 x 1024, 60 Hz with convergence on
green option
< \pm 1.5 % distortion throughout the full
horizontal frequency range

Inputs

- RGB input on 5 BNC connectors, with automatic sync detection and sync polarity, with sync on green or separate sync
- Second RGB analog input on D15 connector, with automatic sync detection and sync polarity

Power

Power factor corrected ranging
between 100 and 240 VAC
+6%/-10%

Power Consumption

800 W max

BARCO 908 SPLIT PACK's optical head

High resolution 8" CRTs with electro-magnetic focus and digitally controlled 6 pole dynamic astigmatism.

Resolution

10 Line pairs/mm optical
1600 x 1250 ANSI pixels

STANDARD

Lenses

High definition hybrid F1.1 color corrected short throw liquid coupled lenses.

ANSI lumen

- Boost mode: 180 lumens
 - Normal mode: 150 lumens
 - Economy mode: 120 lumens
- 10% full white: 1,100 lumens

OPTIONAL

Lenses

Air coupled F1.1 lenses delivering a higher light output.

ANSI Lumen

- Boost mode: 250 lumens
 - Normal mode: 210 lumens
 - Economy mode: 180 lumens
- 10% full white: 1,250 lumens

Barco 909 SPLIT PACK's optical head

High resolution liquid coupled 9" CRTs with electro-magnetic focus and digitally controlled 6 pole dynamic astigmatism.

Resolution:

12 Line pairs/mm optical
>2048 x 1900 ANSI pixels

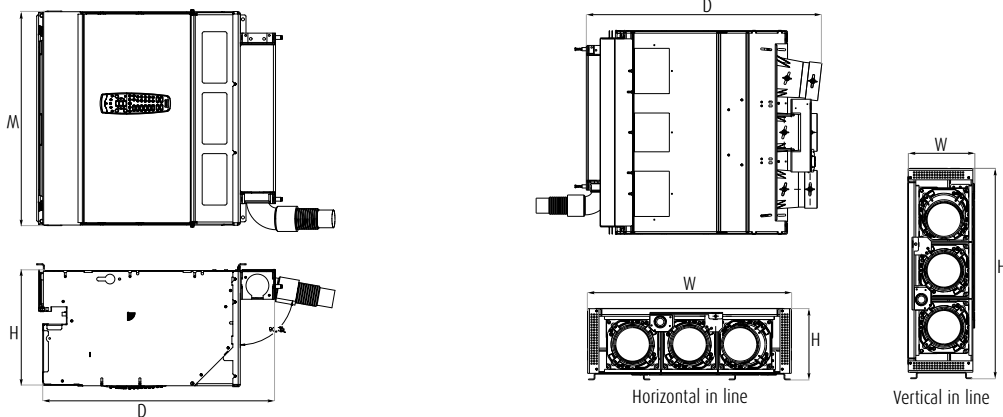
STANDARD

Lenses

High definition F1.18 hybrid lenses provide large screen razor sharp true color images with outstanding contrast.

ANSI lumen

- Boost mode: 300 lumens
 - Normal mode: 250 lumens
 - Economy mode: 195 lumens
- 10% full white: 1,250 lumens



Dimensions electronics

909 chassis	mm	inch
width	562	22.1
Height	305	12.0
depth	627	24.7

Order information

- BARCO 908 SPLIT PACK R9040080
- BARCO 909 SPLIT PACK R9040040

Dimensions optics

Dimensions optics	Horizontal in line*		Vertical in line*	
	mm	inch	mm	inch
Barco 908 SPLIT PACK Series				
width	630	24.8	width	200
Height	220	8.7	Height	650
depth	714	28.1	depth	714
Barco 909 SPLIT PACK Series				
width	650	25.6	width	259
Height	259	10.2	Height	670
depth	793	31.2	depth	793

*different dimensions of the optic head take into account the vertical or horizontal positioning of the fixation plates

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Barco Simulation 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. The latest version of this product sheet can be found on www.simulation.barco.com.

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