RGB Laser ODL-815

80" laser-lit rear-projection video walls for 24/7 control rooms

- COMPACT
- REDUNDANT
- LOW NOISE
- EASY INSTALL
- 4:3 RATIO
- LASER

- **50% more brightness than mainstream LED-lit rear-projection video walls**

- **25% less power consumption at higher brightness levels**

- **More than 11 years of uninterrupted operation in 24/7 mode**

- **Unmatched colors, focus, and contrast levels**

- **Silent like never before ('library' noise level)**

- **Redundancy of critical components for ultimate peace of mind**

- **50% setup-time reduction (motorized 7-axis alignment)**

Powered with the latest laser technology, Barco's RGB laser rear-projection video walls deliver unseen brightness levels and vibrant colors, while offering a very low total cost of ownership (TCO). With its 10th generation of rear-projection video walls, Barco again raises the bar for critical infrastructure visualization.

Higher brightness, for use in any environment

Providing 50% more brightness than mainstream 80" LED-lit rear-projection video walls, the RGB Laser series removes all brightness issues of earlier video walls. The high luminance allows operation under daylight conditions, so control rooms can finally light up - which improves operator working conditions! Adding vibrant colors to this mix (making all nuances clearly distinguishable), ensures that nothing is wrongly interpreted, and situational awareness is enriched. What's more, using 80" cubes results in a lower price per square meter and less seams for the large video wall.

Over 11 years of uninterrupted 24/7 operations

With the RGB laser for 24/7 control rooms series, Barco takes another giant leap forward in terms of reliability. With a lifetime of at least 100,000 hours in eco-mode, operations enjoy a staggering 11.5 years of uninterrupted 24/7 operations. Redundancy of all critical components (including power supply, inputs, and laser drivers) make sure nothing is left to chance when it comes to uptime. Unlike technology used by others and for non-24/7 environments, Barco's RGB laser display series doesn't need a rotating color wheel to operate. Since each color can be uniquely controlled and is not dependent on the segment of a color wheel, it provides color control like never before and eliminates color breakup.

Automatic calibration and alignment

The engine of Barco's RGB laser for 24/7 control rooms is fully motorized. Installers and maintenance staff will never need to open up the individual modules to perfectly align the individual cubes of the video wall. Using a web interface, the video wall can be remotely aligned by a single technician - including keystone correction. Combined with the Sense X automatic calibration system, which continuously measures and adjusts brightness and color levels over the complete video wall, users are sure the complete canvas is perfectly balanced at any time.

BARCO

PRODUCT SPECIFICATIONS	RGB LASER ODL-815			
Resolution	SXGA+ (1400x1050)			
Screen	<Under	Native	color	gamut
	Screen type	FXS Stitched	FEL	Light source lifetime (hrs)
	Boost	510 cd/m²	590 cd/m²	60,000
	Normal	390 cd/m²	460 cd/m²	80,000
	Eco	195 cd/m²	230 cd/m²	100,000
	Horizontal half gain viewing angle	34°	38°	-
	Vertical half gain viewing angle	33°	21°	-
On-screen contrast	1800:1			
Color	Up to 170% REC709 color triangle			
Display technology	Rear projection DLP (Rear Access only)			
White point	Customized white points			
Brightness uniformity	Typ. >95% ANSI 9 Typ. >90% ANSI 13			
Screen gap	< 0.2 mm	0.008" stitched			
Color stability	Sense X automatic calibration			
Dimensions	- Diagonal: 80" nominal - Width: 1,600 mm / 63" - Height: 1,200 mm / 47.2" - Depth: 1,080 mm / 42.5"			
Light source	RGB lasers illumination			
Redundancy	Redundant laser banks with redundant power supply drivers, input signal & external power supply			
Light source lifetime	> 100,000hrs in eco mode > 80,000hrs in normal mode			
Noise Level	Less than 20 dB (measured from 3 meters in front)			
Conditions for operation	10°C-40°C	50°F-104°F Up to 80% humidity (non-condensing)			
AC input voltage	100 – 240 VAC, 50-60Hz			
Power	120W (eco) 200W (normal)			
Heat dissipation	390 BTU/h (eco) 680 BTU/h (typ.) 860 BTU/h (max)			
Connectivity	Redundant Dual link DVI (HDCP compliant)			
Signal processing	Loop through Cropping, scaling with wall configuration			
Direct ethernet access	Built in web server			
Graphical user interface	All settings and operational parameters			
Integration to third party equipment	WEB service API			
Warranty	2 years			

Last updated: 13 Jul 2020

Technical specifications are subject to change without prior notice. Please check www.barco.com for the latest information.

ENABLING BRIGHT OUTCOMES

BARCO