

RGB Laser ODLS-721

Laser-lit rear-projection video walls with 3D



- Showing stereoscopic images using active shutter glasses
- 2x more brightness than mainstream LED-lit 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

Barco's RGB Laser ODLS brings 3D to video walls. Powered with the latest RGB laser technology, these 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 markets visualization.

The RGB Laser ODLS is therefore the first choice for video walls that require a guaranteed uptime and need to show stereoscopic images (using active shutter glasses).

Providing 2x more brightness than mainstream LED-lit rear-projection video walls, the RGB laser series take away all brightness issues of earlier video walls. Because the high luminance allows operating under daylight conditions, control rooms can finally light up - which improves operator working conditions! Adding vibrant colors to this mix, that make all nuances clearly distinguishable, you make sure nothing is wrongly interpreted and situational awareness is enhanced.

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, operators enjoy a staggering 11.5 years of uninterrupted 24/7 operations. Redundancy of all critical components (including power supply, inputs, and drivers) make sure nothing is left to chance when it comes to uptime. Unlike technology used by competitors and in non-24/7 meeting

rooms, 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. This is far more efficient, more reliable, and less time consuming, saving up to 50% of alignment and adjustments efforts. Combined with the Sense X automatic calibration system, continuously measuring and adjusting brightness and color levels over the complete video wall, users are sure the complete canvas is perfectly balanced at any time.

Product specifications

RGB LASER ODLS-721

General specifications						
Resolution	Full HD (1920 x 1080 pixels)					
Screen	Under native color gamut					
	Screen type	NoGap		CSI		Light source lifetime (hrs)
		2D	3D	2D	3D	
	Boost	800 cd/m ²	NA	650 cd/m ²	NA	60,000
	Normal	620 cd/m ²	520 cd/m ²	500 cd/m ²	420 cd/m ²	80,000
	Eco	310 cd/m ²	260 cd/m ²	250 cd/m ²	210 cd/m ²	100,000
	Horizontal half gain viewing angle	36°		36°		-
Vertical half gain viewing angle	33°		34°		-	
On-screen contrast	1800:1					
Color	Up to 170% REC709 color triangle					
Display technology	Rear projection DLP					
White point	Customized white points					
Brightness uniformity	Typ. >95% ANSI 9 Typ. >90% ANSI 13					
Screen gap	Dependant on screen type					
Color stability	Sense X automatic calibration					
Dimensions	<ul style="list-style-type: none"> • Diagonal: 70" (Approx.) • Width: 1,550 mm 61.02" • Height: 872 mm 34.33" • Depth: 622 mm 24.49" • Weight: Projection Module: < 63 kg 139 lbs • Weight: Support frame: < 39 kg 86 lbs 					
Light source	RGB lasers illumination (Lasers Class 2)					
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					

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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)
Signal	Redundant Dual link DVI (HDCP compliant)
Pixel clock	330 MHz
Input frequency	24 – 62 Hz & 92 -120 Hz
Genlock	49 – 61 Hz & 92 -120 Hz
Minimum frame delay	1 frame in minimum frame delay (always applicable for 3D stereo projection and for mono projection with no scaling/cropping) < 2-3 frames in all other cases at full frame rate
Signal processing	Loop through Cropping, scaling with wall configuration (for mono projection only)
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

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