

RGB Laser ODL-721

Laser-lit rear-projection video walls for 24/7 control rooms



- **2x 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 delivers 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.

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 ODL-721

Resolution	Full HD (1920 x 1080 pixels)																																				
Screen	Under native color gamut																																				
	<table border="1"> <thead> <tr> <th>Screen type</th> <th>WV-FEL</th> <th>NoGap</th> <th>CSI</th> <th>Light source lifetime (hrs)</th> <th>Power usage (W)</th> </tr> </thead> <tbody> <tr> <td>Boost</td> <td>940 cd/m²</td> <td>800 cd/m²</td> <td>650 cd/m²</td> <td>60,000</td> <td>260</td> </tr> <tr> <td>Normal</td> <td>730 cd/m²</td> <td>620 cd/m²</td> <td>500 cd/m²</td> <td>80,000</td> <td>200</td> </tr> <tr> <td>Eco</td> <td>365 cd/m²</td> <td>310 cd/m²</td> <td>250 cd/m²</td> <td>100,000</td> <td>120</td> </tr> <tr> <td>Horizontal half gain viewing angle</td> <td>38°</td> <td>36°</td> <td>36°</td> <td>-</td> <td>-</td> </tr> <tr> <td>Vertical half gain viewing angle</td> <td>21°</td> <td>33°</td> <td>34°</td> <td>-</td> <td>-</td> </tr> </tbody> </table>	Screen type	WV-FEL	NoGap	CSI	Light source lifetime (hrs)	Power usage (W)	Boost	940 cd/m ²	800 cd/m ²	650 cd/m ²	60,000	260	Normal	730 cd/m ²	620 cd/m ²	500 cd/m ²	80,000	200	Eco	365 cd/m ²	310 cd/m ²	250 cd/m ²	100,000	120	Horizontal half gain viewing angle	38°	36°	36°	-	-	Vertical half gain viewing angle	21°	33°	34°	-	-
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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																																				
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	Option 1: Redundant Dual link DVI (HDCP compliant) Option 2: Redundant DP1.2 and HDMI 1.4 (HDCP compliant)																																				
Pixel clock	330 MHz																																				
Input frequency	24 – 62 Hz																																				
Genlock	49 – 61 Hz																																				
Minimum frame delay	1 frame in minimum frame delay < 2-3 frames in all other cases at full frame rate																																				
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: 26 Nov 2019

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