

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 light source lifetime of at least 125,000 hours in both normal and eco-mode, and redundancy of all critical components (including power supply, inputs, and laser drivers), 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**

| General specifications | | | | | | |
|--------------------------------------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-----------------------|-----------------------|-----------------------|-----------------------------|-----------------|
| Resolution | Full HD (1920 x 1080 pixels) | | | | | |
| Screen | 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 | 125,000 | 200 |
| | Eco | 365 cd/m ² | 310 cd/m ² | 250 cd/m ² | 125,000 | 120 |
| | Horizontal half gain viewing angle | 38° | 36° | 36° | - | - |
| | Vertical half gain viewing angle | 21° | 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 1 RG2) | | | | | |
| Redundancy | Redundant laser banks with redundant power supply drivers, input signal & external power supply | | | | | |
| Light source lifetime | > 125,000 hrs in both Normal and Eco 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 | 2x DP1.2 inputs & 1x output (4K@60Hz) 2x HDMI 2.0 inputs (4K@60Hz) 2x USB ports (only for power) 2x Ethernet ports | | | | | |
| HDCP | 2.2 compliance | | | | | |
| 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: 18 Jul 2023

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