RGB Laser ODL-715

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





- **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 70" 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.

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 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.

Product specifications	RGB LASER ODL-715			
General specifications				
Resolution	SXGA+ (1400x1050)			
Screen	<Under	Native	color	gamut
	Screen type	FXS Stitched	Light source lifetime (hrs)*	Power usage (W)
	Boost	660 cd/m^2	60,000	260
	Normal	510 cd/m^2	125,000	200
	Eco	255 cd/m^2	125,000	120
	Horizontal half gain viewing angle	34°	-	-
	Vertical half gain viewing angle	33°	-	-
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: 70" nominal ■ Width: 1,400 mm / 55.1" ■ Height: 1,050 mm / 41.3" ■ Depth: 983 mm / 38.7"			
Light source	RGB lasers illumination			
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	Redundant DP & Redundant HDMI			
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			
Weight	Support frame: 1m 42kg Projection Module no screen 65kg			
Warranty	2 years			
Notes	* for ODL Gen2 engine			

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