OV-815

80" SXGA+ DLP™ projection module

Superior display quality

- High-contrast DLP™ technology

- Brightness, contrast, and large viewing angles tailored to the human eye providing maximum readability

- Vibrant colors

- Sense6 technology providing consistently excellent video wall uniformity over time

Reliability and lifetime serviceability

- Engineered for ease of maintenance and serviceability

- Durable components with high reliability from lamp to screen

- Dual redundant lamp offering 100% reliability

- Easy lamp replacement from the rear of the system while system runs

- 100% sealed off optical engine, preventing dust contamination

- Fast Ethernet communication allowing redundant projection access for direct control and configuration

- Barco's Lamp-Lease Program allowing to efficiently control operational costs

Flexibility

- Designed to form video walls of any size, in a linear or curved setup

- Requires minimal installation depth

- Innovative modular concept for easier build up and design

02

Integrated system
- Barco Wall Control Manager software with central graphical overview of the video wall

- Integrating individual projection modules into a single display

Sense6 brings wall uniformity to a next level. Not only does Sense6 increase color and brightness uniformity in the corners of each single projection module, Barco's innovative Sense6 technology also keeps all projection modules equal over time and across the entire video wall.

By integrating a patented brightness and color sensor, the video wall's color and brightness is continuously measured and communicated between projection modules. Sense6 automatically matches the brightness of full white, full black and all gray levels in between, as well as the colors of all projection modules. The I-lamp recalibrates the color sensor for long-time stability.

Sense6 operates unnoticed in the background and requires no operator intervention whatsoever. For instance, Sense6 will work during automatic lamp change without special operator actions. The intended video wall content remains unchanged at all times. No special screen calibration patterns are needed.

ᐤE* is a parameter which incorporates color and brightness differences into one unit. Additionally, ᐤE* takes into account the adaptation level of the human eye to brightness and color.

(1) @ 6500K, values are approx 50% @ 3200K
(2) Depending on wall dimension

(3) upon special request

Product specifications	OV-815

General specifications

Resolution	SXGA+ (1400 x 1050px)
Absolute resolution	22 dpi
Brightness	125 (@120W) / 140 (@132W) / 190 (@180W) cd/m²
Luminous flux	1000 @ 6500K @ 132W
Contrast	5,100:1
Color	100% EBU
Display technology	Rear projection DLP
White point	6,500K, natural lighting (special 32,00K option for backdrop)
DMD chip	1400 x 1050px 0.95" ±12°tilt DarkChip3 BrilliantColor™ LVDS MTBF:650,000 hours Lifetime: 100,000 hours
Image retention	No image retention or burn-in
Pixel accuracy	PixelTrue display, shows each pixel true to the input pixels without scaling or smoothing effects
Light source	• Lamp redundancy: cold standby or hot standby with redundant power supply • Automatic lamps witch by autosensing lamp failure • Lamp replacement: defect lamp can be hot-swapped without image loss • Lamp switch: dynamic feedback of brightness and color readjust video wall to equal performance • Lamp switching time: < 1.5 seconds • I-lamp: intelligent lamp carries a.o. lamp life information & spectrum
Light source lifetime	120W: 10,000 hours 132W: 6,000 hours 180W: 6,000 hours (lamp manufacturer specs @ IEC 61947-1 test conditions)
Color wheel	Color wheel cartridge with MTTR < 5 minutes 3x speed for better image representation Air bearing with rating of 50,000 hours
AC power	100-240 VAC, 60-50Hz

Power	(W)	Cold standby	Hot standby
	120W	< 250	< 390
	132W	< 275	< 430
	180W	< 335	< 550

Heat dissipation	(BTU/h)	Cold standby	Hot standby
	120W	< 850	< 1325
	132W	< 900	< 1375
	180W	< 1145	< 1875

Input/Output	1 x DVI-D in/out, 1 x Dual-link DVI-D in/out
Pixel clock	162 MHz | 270 MHz (On second input)
Input frequency	Multi sync 30Hz-75Hz
Genlock	49 – 61 Hz
Supported resolutions	VGA, SVGA, XGA, SXGA, SXGA+, UXGA, 1080p, dual XGA, triple XGA[*], quad XGA[*], dual SXGA+[*] [*]On second input

Product specifications	OV-815
Cropping	Yes
Scaling	Up-and down scaling (optional)
Barco Wall Control Manager	Graphical representation of video wall on operator PC Integrates separate video wall modules into a single display, allowing a.o. Sense[6] Client – server architecture provides central video wall logic with multiple access from multiple sites Health Status in the blink of an eye and support for trouble shooting Configuration of different settings Wall control by the operator Multiple access levels
Direct ethernet access	Projection module settings and control through standard ethernet browser. Easy and fast firmware upgrading over ethernet
Autodiagnostics	Projector self test
Integration to third party equipment	External video wall control from different devices through SOAP based API
Dimensions	• Diagonal: 80" nominal • Width: 1,600 mm / 63" • Heigth: 1,200 mm / 47.2" • Depth: 862.5 mm / 34" • Full Depth: 1,023 mm / 40.3" • Aspect ratio: 4:3 • Socket height: 875 -1,000 -1,200 mm / 34.5" -39.4" -47.2" • Socket height (min)= 640 mm, 550 mm upon request / 25.2", 21.7" upon request • Weight: 131.3 kg / 289 lbs

Last updated: 15 Mar 2023

ENABLING BRIGHT OUTCOMES

www.barco.com

BARCO