

OV-815

80" SXGA+ DLP™ projection module



Barco's OV-D2 series integrate cutting edge DLP™ technology into 80" video wall systems that are designed and optimized for use in a 24/7 mission critical environment. The Barco designed projection engine provides a set of unique features. The result is an unrivaled DLP™ rear projection-system with outstanding picture quality, reliability and ease of use.

Superior display quality

- Latest 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

Integrated system

- Barco Wall Control Manager software with central graphical overview of the video wall
- Integrating individual projection modules into a single display

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Technical specifications

Resolution	SXGA+ (1400 x 1050px)		
Absolute resolution	22 dpi		
Brightness	125 (@120W) / 140 (@132W) / 190 (@180W) cd/m ²		
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	<ul style="list-style-type: none"> • 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		
Cropping	Yes		
Scaling	Up- and down scaling (optional)		

Barco Wall Control Manager	<p>Graphical representation of video wall on operator PC Integrates separate video wall modules into a single display, allowing a.o. Sense6 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</p>
Direct ethernet access	<p>Projection module settings and control through standard ethernet browser. Easy and fast firmware upgrading over ethernet</p>
Autodiagnosics	<p>Projector self test</p>
Integration to third party equipment	<p>External video wall control from different devices through SOAP based API</p>
Dimensions	<ul style="list-style-type: none"> • Diagonal: 80" nominal • Width: 1,600 mm / 63" • Height: 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