OV-808

80" XGA DLP™ projection module



Barco's OV-D2 series integrates 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, resulting in 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



Features of the OV-808 projection modules

Sense⁶

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.



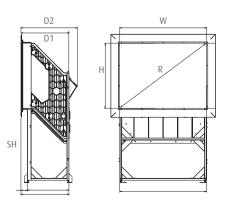
		HVA	HVAII	
	Power	Luminance (cd/m² ftL) (¹)		
	120 W	115 34	200 59	
0N-808	132 W	125 37	220 65	
-\0	180 W	170 50	300 88	
80″	Interscreen gap	< 0.2 mm by patented stitch concept		
	Humidity conditions	Up to 90% non condensing (²)		
	Temperature conditions	12°C-32°C 53.6°F-89.6°F (²)		
	Storing conditions	0°C-40°C 32°F-105°F		

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

	SL	Screen type	Brightness	Viewing angle	Full viewing angle	Half gain angle (h. v.)	1/5 gain angle (h. v.)
5	reel	HVA	Normal	Excellent	180°	±35° ±35°	~ ±65° ±65°
	20	HVA II (³)	Medium	Wide	180°	±35° ±35°	~ ±45° ±45°



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



Intracube uniformity	Dyna bright feedb	ness
Optical dimmer Dynamic color feedback	Primary color adjust Gray locking	intracube uniformity brightness locking color locking gray locking
Sansa ⁶ (Ontional)		

	- (/ - · · · · · · · ·)	
	Sense ⁶ (Optional)	
	Color shift between projection modules over time	Shift in ΔE^* over time < 3 (with color lock)
	On-screen brightness uniformity	Very high brightness and color uniformity
	ANSI 9 brightness min.	97%
	ANSI 13 brightness typ.	95%
	Projector color/ brightness uniformity	
	Δ E * intercube typ.	< 6
	Δ E * intracube typ.	< 3
Sense	Brightness locking	Makes brightness of all projection modules equal at all times without operator intervention
		High Dynamic Range (HDR) by optical dimming preserves contrast, independent of brightness level or lamp life
		Active dynamic brightness sensor feedback technology measures brightness and serves as input to the optical dimmer
	Color locking	Makes color of all projection modules equal at all times without operator intervention
		Primary Color Adjust is a color algorithm that adjusts color to a common color target in red, green, blue and white
		Active dynamic color sensor feedback technology collects color information from all projection modules. The True Color Sensor measures the complete spectrum rather than just red, green and blue and is based upon the standard spectral function according to CIE 1931
	Gray locking	Makes gray levels equal across projection modules

Dimensions	OV-808			
	Width W	1600 mm 63.0"		
	Height H	1200 mm 47.2"		
	Diagonal R	80" nominal		
	D1	862.5 mm 34.0"		
	Full depth D2	1023 mm 40.3"		
Ö	Aspect ratio	4:3		
	Standard height SH	875 mm, 1000 mm, 1200 mm 34.5", 39.4", 47.2"		
	Min screen height SH	570 ± 30 mm, 22.4"		
	Weight/module	131.3 kg 289 lbs		

Technical specifications OV-808

	Resolution					
	XGA 1024 x 768 TruePixel					
	Absolute resolution					
S	16 dpi					
litie	Luminous flux @ 6500 K @ 132 W					
abil	875					
сар	Dynamic contrast					
lay	4800:1					
Display capabilities	Color					
	100% EBU					
	White point					
-	6500 K, natural lighting (1)					
	DMD chip					
	0.7″ LVDS ±12° DarkChip3, BrilliantColor™					
	Pixel accuracy					
maging device	PixelTrue display, shows each pixel true to the input pixels without scaling or smoothing effects					
ն Ծ	MTBF of DMD					
agir	typ. 650,000 hours					
<u>=</u>	Life time of DMD					
	typ. > 100,000 hours					
	Image retention					
	No image retention or burn-in					
	Lamps					
	Choice between 120 W, 132 W and 180 W					
	Lamp-life (2) 120 W 132 W 180 W					
	10,000 hrs 6,000 hrs 6,000 hrs					
	Lamp redundancy					
	Cold standby or hot standby with redundant power supply Automatic lamp switch by autosensing lamp failure					
nps	Lamp replacement					
Lar	Defect lamp can be hot-swapped without image loss					
	Lamp switch					
	Dynamic feedback of brightness and color readjusts video wall to equal performance					
	Switching time					
	< 1.5 seconds					
	I-lamp					
	Intelligent lamp carries a.o. lamp life information & spectrum					
eel	Color wheel, rotation speed & lifetime					
whe	Color wheel cartridge with MTTR < 5 minutes					
color wheel	3x speedn for better image representation					
8	Air bearing with rating of 50,000 hours					

(') Special 3200 K option for backdrop • (2) Lamp manufacturer specs @ IEC 61947-1 test conditions (2) On second input

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	AC input voltage					
Power	100-240 VAC, 60-50 Hz					
	Power (W)	120 W	132 W	180 W		
	Cold standby	< 250	< 275	< 335		
	Hot standby	< 390	< 430	< 550		
	Heat dissipation (BTU/h)	120 W	132 W	180 W		
	Cold standby	< 850	< 900	< 1145		
	Hot standby	< 1325	< 1375	< 1875		
	Signal input/output					
	1 x DVI-D in/out, 1 x Dual-link DVI-D in/out					
	Pixel clock					
	162 MHz 270 MHz (³)					
	Input frequency					
	Multi sync 30-75 Hz					
lе	Genlock range					
ign	Genlock in 49-61 Hz range					
٠,	Supported input resolutions					
	VGA, SVGA, XGA, SXGA, SXGA+, UXGA, 1080p, dual XGA, triple XGA (³), quad XGA (³), dual SXGA+(³)					
	Cropping					
	Possible					
	Scaling (optional)					
	Up- and down scaling					
	Barco Wall Control Manager					
	Graphical representation of video wall on operator PC					
	Integrates separate projection 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					
ions	Configuration of different settings					
icat	Wall control by the operator					
unu	Multiple access levels					
Communica	Direct ethernet access					
O	Projection module settings and control through standard ethernet browser					
	Easy and fast firmware upgrade over ethernet					
	Autodiagnostics					
	Projector self test					
	Integration to third party equipment					
	External video wall control from different devices through SOAP based API					

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