### **OV-508**

## 50" XGA DLP™ projection module



Barco's OV-D2 series integrates cutting edge DLP™ technology into 50″ 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<sup>™</sup> technology
- Brightness, contrast, and large viewing angles tailored to the human eye providing maximum readability
- Vibrant colors
- Sense<sup>6</sup> 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



Visibly yours

### Features of the OV-508 projection modules

#### Sense<sup>6</sup>

Sense<sup>6</sup> brings wall uniformity to a next level.

Not only does Sense<sup>6</sup> increase color and brightness uniformity in the corners of each single projection module, Barco's innovative Sense<sup>6</sup> 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. Sense<sup>6</sup> automatically matches the brightness of full white, full black and gray levels in between, as well as the colors of all projection modules. The I-lamp recalibrates the color sensor for long-time stability.

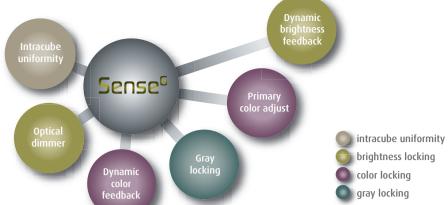
Sense<sup>6</sup> operates unnoticed in the background and requires no operator intervention whatsoever. For instance, Sense<sup>6</sup> will work during automatic lamp change without special operator actions. The intended video wall content remains unchanged at all times. No special screen calibration patterns are needed.

		HVA	HVM	HVX	
	Power	<b>Luminance</b> (cd/m²   ftL) (¹)			
	120 W	290   85	575   169	1425   419	
8(	132 W	320   94	635   187	1570   462	
50" 0V-508	180 W	435   128	n.a.	n.a.	
0 "(	Seam size screen mullion	0 mm			
2(	interscreen gap	< 0.8 mm(²) or 0 mm ZeroGap technology			
	Humidity conditions	Up to 80% non condensing			
	Temperature conditions	10°C-40°C   50°F-105°F			
	Storing conditions	0°C-40°C   32°F-105°F			

- (1) @ 6500 K, values are approx 50% @ 3200 K
- (2) @ 25°C, 50% RH

	Screen type	Brightness	Viewing angle	Full viewing angle	Half gain angle (h.∣v.)	1/5 gain angle (h. v.)
Screens	HVA	Normal	Excellent	180°	±35°  ±35°	~ ±65°  ±65°
	HVM	Medium	Wide	180°	±35°  ±27°	~ ±45°  ±41°
	HVX	High	Medium	160°	±35°  ±10°	~ ±45°  ±17°

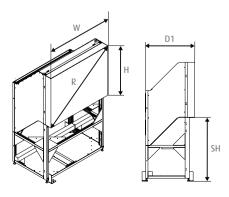






 $\Delta E^*$  is a parameter which incorporates color and brightness differences into one unit. Additionally,  $\Delta E^*$  takes into account the adaptation level of the human eye to brightness and color.

	feedback	gray locking		
	Sense <sup>6</sup> (Optional)			
	Color shift between projection modules over time	Shift in $\Delta E^*$ 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			
	$\Delta E^*$ intercube typ.	< 6		
	Δ <b>E</b> * intracube typ.	< 3		
e,	Brightness locking	Makes brightness of all projection modules equal at all times without operator intervention		
Sense		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		
		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		
	Color locking	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		



	0V-508	
	Width W	1000 mm   39.4"
	Height H	750 mm   29.5"
ions	Diagonal R	50" nominal
Jimensions	Full depth D1	664.5 mm   26.2"
Dim	Aspect ratio	4:3
	Standard height SH	875, 1000, 1200 mm   34.5", 39.4", 47.2"
	Min screen height SH	455 mm   17.9"
	Weight/module	65 kg   143.3 lbs

# Technical specifications OV-508

	Resolution					
	XGA 1024 x 768 TruePixel					
	Absolute resolution					
S	26 dpi					
litie	Luminous flux @ 6500 K @ 132W					
abil	875					
сар	Dynamic contrast					
Display capabilities	4800:1					
Disp	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					
	<b>Lamp life</b> (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 speed for better image representation					
2	Air bearing with rating of 50,000 hours					

(¹) 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					
	100-240 VAC, 60-50 Hz					
Power	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					
е П	Genlock range					
ig	Genlock in 49-61 Hz range					
S	Supported input resolution	ons				
	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 <sup>6</sup>					
	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					
ياتار	Multiple access levels					
m	Direct ethernet access					
3	Projection modules 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					
	external video wall control from different devices through					

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SOAP based API

