

OV-1008 & OV-1015

100" DLP™ projection modules



Barco's OV-D2 series integrates cutting edge DLP™ technology into 100" 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

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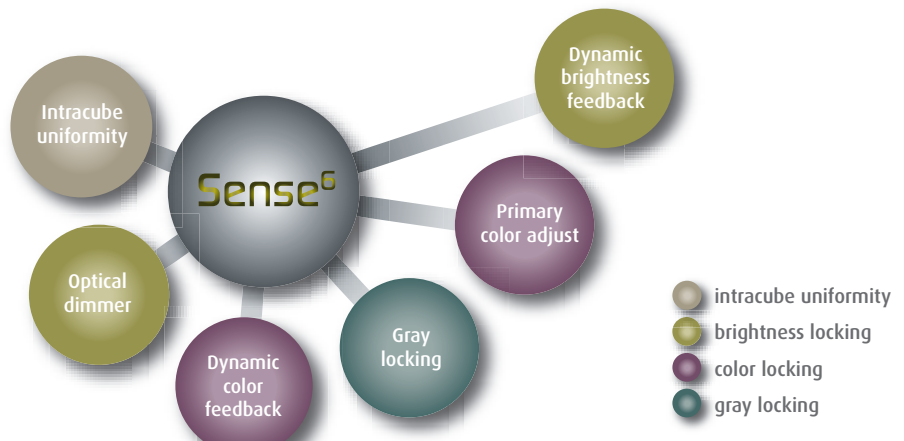
Features of the OV-1008 and OV-1015



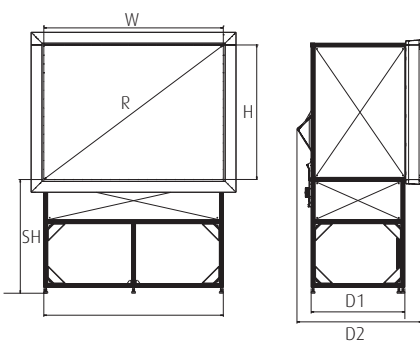
100"	OV-1008	Beta	OV-1015	Beta
	Power	Luminance (cd/m ² ftL) (*)	Power	Luminance (cd/m ² ftL) (*)
	120 W	165 48	120 W	185 54
	132 W	180 53	132 W	206 60
	180 W	250 73	180 W	280 82
	Interscreen gap		< 0.2 mm by patented stitch concept	
	Humidity conditions		Up to 90% non condensing (*)	
Screens	Temperature conditions		10°C-30°C 50°F-86°F (*)	
	Storing conditions		0°C-40°C 32°F-105°F	

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

Screens	Screen type	Brightness	Viewing angle	Full viewing angle	Half gain angle (h. v.)
	Beta	Medium	Medium	180°	±35° ±12°



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	
ΔE^* intercube typ.	< 6
ΔE^* intracube typ.	< 3
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 (optional)
Gray locking	Makes gray levels equal across projection modules



OV-1008 & OV-1015	
Width W	2032 mm 80"
Height H	1524 mm 60"
Diagonal R	100" nominal
D1	1239 mm 48.8"
Full depth D2	1400 mm 55.1"
Aspect ratio	4:3
Standard height SH	1288 mm 50.7"
Min screen height SH	565 mm
Weight/module	273.5 kg 602 lbs

Technical specifications OV-1008 & OV-1015

Display capabilities	OV-1008		OV-1015	
	Resolution	XGA 1024 x 768 TruePixel	SXGA+ 1400 x 1050 TruePixel	
	Absolute resolution	13 dpi	17.5 dpi	
	Lum. flux @ 6500 K @132W	875	1000	
	Dynamic contrast	4800:1	5100:1	
	Color	100% EBU	100% EBU	
	White point	6500 K, natural lighting (1)		
Imaging device	DMD chip			
	OV-1008: 0.7" LVDS ±12° DarkChip3, BrilliantColor™ OV-1015: 0.95" LVDS ±12° DarkChip3, BrilliantColor™			
	Pixel accuracy			
	PixelTrue display, shows each pixel true to the input pixels without scaling or smoothing effects			
	MTBF of DMD			
	Typ. 650,000 hours			
	Life-time of DMD			
Typ. > 100,000 hours				
Image retention				
	No image retention or burn-in			
Lamps	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 auto sensing 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			
	Switching time			
	< 1.5 seconds			
	I-lamp			
	Intelligent lamp carries a.o. lamp life information & spectrum			
	Color wheel	Color wheel, rotation speed & lifetime		
Color wheel cartridge with MTTR < 5 minutes				
3x speed for better image representation				
Air bearing with rating of 50,000 hours				

Power	AC input voltage			
	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
Signal	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			
Communications	Genlock range			
	Genlock in 49-61 Hz range			
	Supported input resolutions			
	VGA, SVGA, XGA, SXGA, SXGA+, UXGA, 1080p, dual XGA, triple XGA ⁽³⁾ , quad XGA ⁽³⁾ , dual SXGA+ ⁽³⁾			
	Cropping			
	Yes			
	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			
	Configuration of different settings			
	Wall control by the operator			
	Multiple access levels			
	Direct ethernet access			
	Projection modules settings and control over CAT5 cable through standard ethernet browser			
	Easy and fast firmware upgrade over Ethernet			
	Autodiagnosics			
	Low level projector self test			
	Integration to third party equipment			
	External video wall control from different devices through SOAP based API			

⁽¹⁾ Special 3200 K option for backdrop • ⁽²⁾ Lamp manufacturer specs @ IEC 61947-1 test conditions
⁽³⁾ On second input

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Barco is an ISO 9001 registered company. The information and data given are typical for the equipment described. However any individual item is subject to change without any notice. The latest version of this product sheet can be found on www.barco.com
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