OV-515

50" SXGA⁺ 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[™] 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-515 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.

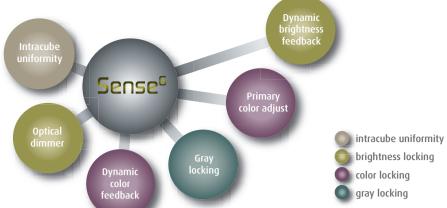
		HVA	HVM	HVX
	Power	Luminance (cd/m² ftL) (¹)		
	120 W	325 96	650 191	1605 472
2	132 W	355 104	715 210	1765 519
0V-51	180 W	485 143	n.a.	n.a.
50″0	Seam size screen mullion	0 mm		
2(interscreen gap	< 0.8 mm(²) or 0 mm ZeroGap technology		
	Humidity conditions	Up to 80% non condensing		
	Temperature conditions	10°C-40°C 50°F-105°F		
	Storing conditions	0°C-40°C 32°F-105°F		

^{(1) @ 6500} K, values are approx. $50\overline{\%}$ @ 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.)
ens	HVA	Normal	Excellent	180°	±35° ±35°	~ ±65° ±65°
Screens	HVM	Medium	Wide	180°	±35° ±27°	~ ±45° ±41°
	HVX	High	Medium	160°	±35° ±10°	~ ±45° ±17°

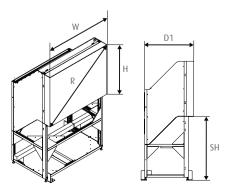






 ΔE^* is a parameter which incorporates color and brightness differences into one unit. Additionally, ΔE^* takes into account the adaptation level of the human eye to brightness and color.

	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	
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	
	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	



	0V-515	
	Width W	1000 mm 39.4"
	Height H	750 mm 29.5"
ons	Diagonal R	50" nominal
Dimension	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 lbs

Technical specifications OV-515

	Resolution				
	SXGA+ 1400 x 1050 TruePixel				
	Absolute resolution				
Si	36 dpi				
iii	Luminous flux @ 6500 K @ 132W				
jabi	1000				
cap	Dynamic contrast				
Display capabilities	5100:1				
Dis	Color				
	100% EBU				
	White point				
	6500 K, natural lighting (¹)				
	DMD chip				
	0.95″ LVDS ±12° DarkChip3, BrilliantColor™				
	Pixel accuracy				
Imaging device	PixelTrue display, shows each pixel true to the input pixels without scaling or smoothing effects				
ng c	MTBF of DMD				
agii	typ. 650,000 hours				
트	Lifetime 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				
Color wheel	Color wheel cartridge with MTTR < 5 minutes				
lor	3x speed for better image representation				
0	Air bearing with rating of 50,000 hours				

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

Ref. no. R599167SSE1008R004

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.barcc.com





AC input voltage 100-240 VAC, 60-50 Hz Power (W) 120 W 132 W 180 W Cold standby < 250 < 275 < 335 < 390 < 550 Hot standby < 430 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 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 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. 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 Direct ethernet access 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

Contact Barco Europe, Middle-East, Africa: +32 56 26 20 09 USA: +1 678 475 8000 Latin America: +55 11 38421656 Japan: +81 3 5762 8727

China: +86 400 88 22726 sales.security_and_monitoring@barco.com



Visibly yours