

OV-508

50" XGA DLP™ projection module



Superior display quality

- 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

High-brightness

Barco's OV-508 is also available as a high-bright version featuring a 180 Watt lamp system. The high-bright OV-508 has been designed to deal with specific light conditions in TV studio environments and has a built-in inter-cube video scaling system which allows to present images with a resolution of up to full HD (1920 x 1080) scaled on to the full video wall. The scaling system requires no extra hardware or software and provides the most accurate images without quality loss. Finally, the high-bright OV-508 provides an optional 3200K color filter for studio environments with artificial lighting.

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.

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.

(1) @ 25° C, 50% RH

(2) @ 6500K, values are approx 50% @ 3200K

Product specifications

OV-508

General specifications			
Resolution	XGA (1024 x 768px)		
Absolute resolution	26 dpi		
Brightness	290 (@120W) / 320 (@132W) / 435 (@180W) cd/m ²		
Luminous flux	875 @ 6,500K @ 132W		
On-screen contrast	4800:1		
Color	100% EBU		
Display technology	Rear projection DLP		
White point	6,500K, natural lighting (special 3,200K option for backdrop)		
DMD chip	1024 x 768px 0.7" ±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		
Screen gap	mullion: 0 mm interscreen gap: < 0.8 mm or 0 mm ZeroGap technology @ 25°C, 50% RH		
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	< 1,325
	132W	< 900	< 1,375
	180W	< 1,145	< 1,875
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		

Product specifications**OV-508**

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	Graphical representation of video wall on operator PC Integrates separate video wall 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 module settings and control through standard ethernet browser. Easy and fast firmware upgrading over ethernet
Autodiagnosics	Low level projector self test
Integration to third party equipment	External video wall control from different devices through SOAP based API
Dimensions	<ul style="list-style-type: none">• Diagonal: 50" nominal• Width: 1,000 mm / 39.4"• Height: 750 mm / 29.5"• Full Depth: 734 mm / 28.9"• Aspect ratio: 4:3• Standard height 875 -1,000 -1,200 mm / 34.5" -39.4" -47.2"• Screen height (min) 455 mm / 17.9".• Weight: 65 kg / 143.3 lbs

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