

OV-808

80" 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-808 is also available as a high-bright version featuring a 180 Watt lamp system. The high-bright OV-808 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.

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

(2) depending on wall dimension

(3) upon special request

Product specifications

OV-808

| General specifications | | | |
|------------------------|---|---------------------|--------------------|
| Resolution | XGA (1024 x 768px) | | |
| Absolute resolution | 16 dpi | | |
| Brightness | 115 (@120W) / 125 (@132W) / 170 (@180W) cd/m ² | | |
| Luminous flux | 875 @ 6,500K @ 132W | | |
| Contrast | 4,800:1 | | |
| 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 | Interscreen gap: < 0.2 mm by patented stitch concept | | |
| 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-808**

| | |
|--------------------------------------|---|
| 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 | 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: 80" nominal• Width: 1,600 mm / 63"• Height: 1,200 mm / 47.2"• Depth: 862.5 mm / 34"• Full Depth: 1,023 mm / 40.3"• Aspect ratio: 4:3• Standard height 875 -1000 -1200 mm / 34.5" -39.4" -47.2"• Screen height (min) 640 mm, 550 mm upon request / 25.2", 21.7" upon request• Weight/module 131.3 kg / 289 lbs |

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