

# OV-708

## 70" XGA DLP™ projection module



Barco's OV-D2 series integrate DLP™ technology into 70" 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. The result is a DLP™ rear projection-system with outstanding picture quality, reliability and ease of use.

### **Superior display quality**

- High-contrast DLP™ 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

**BARCO**

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### **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-708 is also available as a high-bright version featuring a 180 Watt lamp system. The high-bright OV-708 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-708 provides an optional 3200K color filter for studio environments with artificial lighting.

## Product specifications

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<b>Resolution</b>	XGA (1024 x 768px)		
<b>Absolute resolution</b>	19 dpi		
<b>Brightness</b>	145 (@120W) / 160 (@132W) / 215 (@180W) cd/m <sup>2</sup>		
<b>Luminous flux</b>	875 @ 6,500K @ 132W		
<b>Contrast</b>	4,800:1		
<b>Color</b>	100% EBU		
<b>Display technology</b>	Rear projection DLP		
<b>White point</b>	6,500K, natural lighting (special 3,200K option for backdrop)		
<b>DMD chip</b>	1024 x 768px 0.7" ±12°tilt DarkChip3 BrilliantColor™ LVDS MTBF:650,000 hours Lifetime: 100,000 hours		
<b>Image retention</b>	No image retention or burn-in		
<b>Pixel accuracy</b>	PixelTrue display, shows each pixel true to the input pixels without scaling or smoothing effects		
<b>Screen gap</b>	mullion: 0 mm interscreen gap: < 0.2 mm by patented stitch concept < 1.5 mm for optimal modular screen @ 25°C, 50% RH		
<b>Light source</b>	<ul style="list-style-type: none"> <li>• Lamp redundancy: cold standby or hot standby with redundant power supply</li> <li>• Automatic lamps witch by autosensing lamp failure</li> <li>• Lamp replacement: defect lamp can be hot-swapped without image loss</li> <li>• Lamp switch: dynamic feedback of brightness and color readjust video wall to equal performance</li> <li>• Lamp switching time: &lt; 1.5 seconds</li> <li>• I-lamp: intelligent lamp carries a.o. lamp life information &amp; spectrum</li> </ul>		
<b>Light source lifetime</b>	120W: 10,000 hours 132W: 6,000 hours 180W: 6,000 hours (lamp manufacturer specs @ IEC 61947-1 test conditions)		
<b>Color wheel</b>	Color wheel cartridge with MTTR < 5 minutes 3x speed for better image representation Air bearing with rating of 50,000 hours		
<b>AC power</b>	100-240 VAC, 60-50Hz		
<b>Power</b>	(W)	<b>Cold standby</b>	<b>Hot standby</b>
	120W	< 250	< 390
	132W	< 275	< 430
	180W	< 335	< 550
<b>Heat dissipation</b>	(BTU/h)	<b>Cold standby</b>	<b>Hot standby</b>
	120W	< 850	< 1,325
	132W	< 900	< 1,375
	180 W	< 1,145	< 1,875
<b>Input/Output</b>	1 x DVI-D in/out, 1 x Dual-link DVI-D in/out		
<b>Pixel clock</b>	162 MHz   270 MHz (On second input)		
<b>Input frequency</b>	Multi sync 30Hz-75Hz		
<b>Genlock</b>	49 – 61 Hz		
<b>Supported resolutions</b>	VGA, SVGA, XGA, SXGA, SXGA+, UXGA, 1080p, dual XGA, triple XGA*, quad XGA*, dual SXGA+ * On second input		
<b>Cropping</b>	Yes		

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<b>Scaling</b>	Up- and down scaling (optional)
<b>Barco Wall Control Manager</b>	Graphical representation of video wall on operator PC Integrates separate video wall 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 Configuration of different settings Wall control by the operator Multiple access levels
<b>Direct ethernet access</b>	Projection module settings and control through standard ethernet browser. Easy and fast firmware upgrading over ethernet
<b>Autodiagnosics</b>	Projector self test
<b>Integration to third party equipment</b>	External video wall control from different devices through SOAP based API
<b>Dimensions</b>	<ul style="list-style-type: none"><li>• Diagonal: 70" nominal</li><li>• Width: 1,400 mm / 55.1"</li><li>• Height: 1,050 mm / 41.3"</li><li>• Depth 763 mm / 30"</li><li>• Full Depth: D2 899 mm / 35.4"</li><li>• Aspect ratio: 4:3</li><li>• Standard height 875 - 1000 - 1200 mm / 34.5" - 39.4" - 47.2"</li><li>• Screen height (min) 640 mm, 550 mm upon request / 25.2", 21.7" upon request</li><li>• Weight: 101.5 kg / 224 lbs</li></ul>