

# OVF-708 & OVF-715

## 70" front-access projection module



Barco's 70" front-accessible video wall systems are designed and optimized for use in a 24/7 mission critical environment. The XGA OVF-708 and SXGA+ OVF-715 video walls offer outstanding picture quality, high reliability and ease of use. For applications where space is limited, the 70" video walls can be serviced from the front. The video wall can be positioned against the wall, which means that no rear maintenance area is needed. The video walls' high resolution and dedicated HVM screens allow operators to sit close by and monitor high-density information without image artifacts. Regular service, such as lamp replacement, can be performed without losing video wall content and without opening the screen or obstructing the operator.

### Unique sensor technology

Barco's 70" front-accessible video walls come with Sense<sup>6</sup>, a unique sensor technology that provides brightness and color stability over time and across the entire display. The integrated brightness and color sensor continuously measures the video wall's color and brightness. Sense<sup>6</sup> 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.

Sense<sup>6</sup> operates unnoticed in the background and requires no operator intervention whatsoever. For instance, Sense<sup>6</sup> 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.

### Features and benefits:

- Latest high-contrast DLP™ technology
- Unique Sense<sup>6</sup> technology providing continuous video wall uniformity over time
- Small footprint taking up a less control room space
- Dual redundant lamp system offering 100% reliability
- Hot swappable lamps without content loss
- Low-speckle HVM screens

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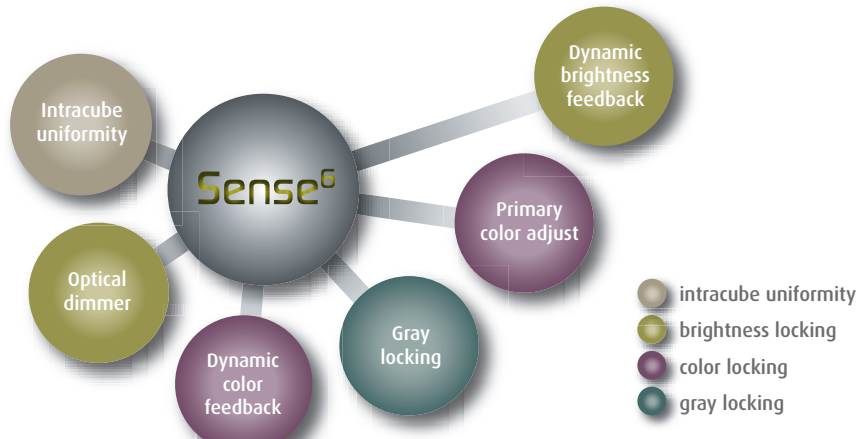
## Features of the OVF-708 and OVF-715



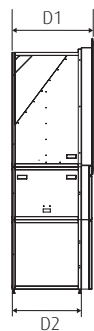
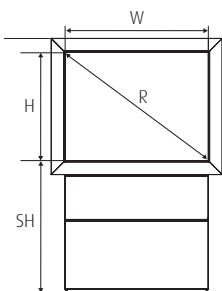
70"	OVF-708	HVA	HVM	HVX	OVF-715	HVA	HVM	HVX
	Power	Luminance (cd/m <sup>2</sup>   ftL) (¹)			Power	Luminance (cd/m <sup>2</sup>   ftL) (¹)		
	120 W	145   43	295   87	730   215	120 W	165   49	330   97	820   241
	132 W	160   47	325   96	800   235	132 W	180   53	365   107	900   265
	180 W	215   63	n.a.	n.a.	180 W	245   72	n.a.	n.a.
Interscreen gap				< 1.5 mm vertical gap, < 1.25 mm horizontal gap @ 25°C and 50% RH				
Humidity conditions				Up to 80% non condensing				
Temperature conditions				10°C-35°C   50°F-95°F				
Storing conditions				0°C-40°C   32°F-105°F				

(¹) @ 6500 K, values are approx 50% @ 3200 K

Screens	Screen type	Brightness	High contrast	Full viewing angle	Half gain angle (h.v.)	1/5 gain angle (h.v.)
	HVA	Normal	Excellent viewing angle	180°	±35°   ±35°	~ ±65°   ±65°
	HVM	Medium	High viewing angle	180°	±35°   ±27°	~ ±45°   ±41°
	HVX	High	High brightness	160°	±35°   ±10°	~ ±45°   ±17°



Sense <sup>6</sup> (Optional)	
<b>Color shift between cubes over time</b>	Shift in $\Delta E^*$ over time < 3 (with color lock)
<b>On-screen brightness Uniformity</b>	Very high brightness and color uniformity
ANSI 9 brightness min.	97%
ANSI 13 brightness typ.	95%
<b>Projector color/ brightness uniformity</b>	
$\Delta E^*$ intercubes typ.	< 6
$\Delta E^*$ intracubes typ.	< 3
<b>Brightness locking</b>	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
<b>Color locking</b>	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
<b>Gray locking</b>	Makes gray levels equal across projection modules



Dimensions	
<b>OVF-708 &amp; OVF-715</b>	
<b>Width W</b>	1400 mm   55.1"
<b>Height H</b>	1050 mm   41.3"
<b>Diagonal R</b>	70" nominal
<b>D1</b>	793 mm   31.2"
<b>Full depth D2</b>	689.5 mm   27.15"
<b>Aspect ratio</b>	4:3
<b>Standard height</b>	836 mm, 32.9", 1288 mm, 50.7"
<b>Min screen height</b>	613 mm   24.1"
<b>Weight / module</b>	150 kg   330.7 lbs/module

Display capabilities		OVF-708	OVF-715	
	<b>Resolution</b>	XGA 1024 x 768 TruePixel	SXGA* 1400 x 1050 TruePixel	
	<b>Absolute resolution</b>	19 dpi	25.4 dpi	
	<b>Luminous flux @ 6500 K, 132W</b>	875	1000	
	<b>Dynamic contrast</b>	4800:1	5100:1	
	<b>Color</b>	100% EBU	100% EBU	
	<b>White point</b>	6500 K, natural lighting (*)		
Imaging device	<b>DMD-chip</b>			
	OVF-708: 0.7" LVDS ±12° DarkChip3, BrilliantColor™ OVF-715: 0.95" LVDS ±12° DarkChip3, Brilliant Color™			
	<b>Pixel accuracy</b>			
	PixelTrue display, shows each pixel true to the input pixels without scaling or smoothing effects			
	<b>MTBF of DMD</b>			
	typ. 650,000 hours			
	<b>Lifetime of DMD</b>			
typ. > 100,000 hours				
Lamps	<b>Image retention</b>			
	No image retention or burn-in			
	<b>Lamps</b>			
	Choice between 120 W, 132 W and 180 W			
	<b>Lamp life (²)</b>	120 W	132 W	180 W
		10,000 hrs	6,000 hrs	6,000 hrs
	<b>Lamp redundancy</b>			
Cold standby or hot standby with redundant power supply Automatic lamp switch by autosensing lamp failure				
<b>Lamp replacement</b>				
Defect lamp can be hot-swapped without image loss				
<b>Lamp switch</b>				
Dynamic feedback of brightness and color readjusts video wall to equal performance				
<b>Switching time</b>				
< 1.5 seconds				
<b>I-lamp</b>				
intelligent lamp carries o.a. lamp life information & spectrum				
Color wheel	<b>Color wheel, rotation speed &amp; lifetime</b>			
	Color wheel cartridge with MTTR < 5 minutes			
	3x speed for better image representation			
	Air bearing with rating of 50,000 hours			

Power	<b>AC input voltage</b>			
	100-240 VAC, 60-50 Hz			
	<b>Power (W)</b>	120 W	132 W	180 W
	Cold standby	< 250	< 275	< 335
Hot standby	< 390	< 430	< 550	
<b>Heat dissipation (BTU/h)</b>				
Cold standby	< 850	< 900	< 1145	
Hot standby	< 1325	< 1375	< 1875	
Signal	<b>Signal 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 (³)			
	<b>Input frequency</b>			
	Multi sync 30-75 Hz			
	<b>Genlock range</b>			
	Genlock in 49-61 Hz range			
	<b>Supported input resolutions</b>			
	VGA, SVGA, XGA, SXGA, SXGA+, UXGA, 1080p, dual XGA, triple XGA (³), quad XGA (³), dual SXGA+(³)			
Communications	<b>Cropping</b>			
	Yes			
	<b>Scaling (optional)</b>			
	up- and down scaling			
<b>Barco Wall Control Manager</b>				
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				
<b>Direct ethernet access</b>				
Video wall module settings and control over CAT5 cable through standard Ethernet browser				
Easy and fast firmware upgrade over Ethernet				
<b>Autodiagnosics</b>				
Low level projector self test				
<b>Integration to third party equipment</b>				
External video wall control from different devices through SOAP based API				

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

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