

OVF-708 & OVF-715

70" front-access video wall displays



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 Sense⁶, 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. Sense⁶ automatically matches the brightness of full white, full black and all gray levels in between, as well as the colors of all display 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.

Features and benefits:

- Latest high-contrast DLP™ technology
- Unique Sense⁶ 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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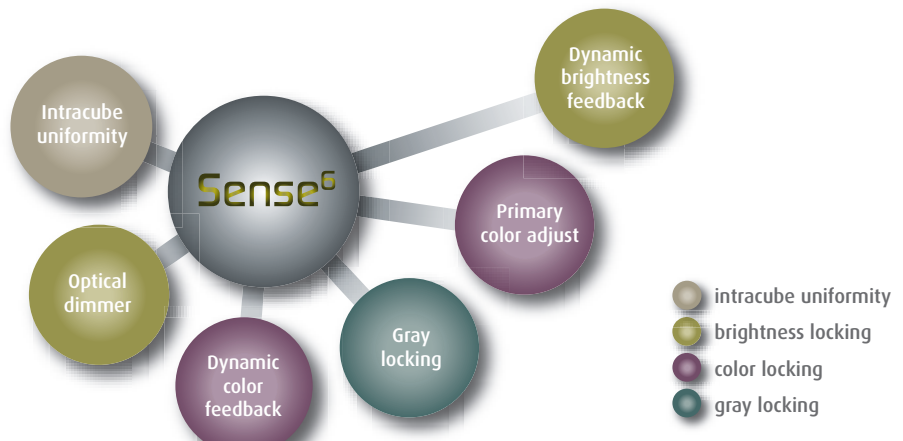
Features of the OVF-708 and OVF-715



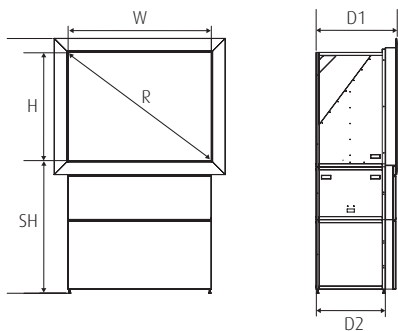
	OVF-708	HVA	HVM	HVX	OVF-715	HVA	HVM	HVX
	Power	Luminance (cd/m ² fTL) (')			Power	Luminance (cd/m ² fTL) (')		
70"	120 W	145 43	295 87	730 215	120 W	165 49	330 97	820 241
	132 W	160 47	325 96	800 235	132 W	180 53	365 107	900 265
	180 W	215 63	n.a.	n.a.	180 W	245 72	n.a.	n.a.
	Interscreen gap			<1.5 mm vertical gap, < 1.25 mm horizontal gap @ 25°C and 50% RH				
	Humidity conditions			Up to 90% non condensing				
	Temperature conditions			10°C-35°C 50°F-95°F				
	Storing conditions			0°C-40°C 32°F-105°F				

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

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



Sense ⁶ (Optional)	
Color shift between cubes 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	
ΔE^* intercube typ.	< 6
ΔE^* intracube typ.	< 3
Brightness locking	Makes brightness of all cubes 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
Color locking	Makes color of all cubes 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 cubes. 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 (optional)
Gray locking	Makes gray levels equal across display cubes



Dimensions	
OVF-708 & OVF-715	
Width W	1400 mm 55.1"
Height H	1050 mm 41.3"
Diagonal R	70" nominal
D1	793 mm 31.2"
Full depth D2	689.5 mm 27.15"
Aspect ratio	4:3
Standard height	836 mm, 32.9", 1288 mm, 50.7"
Min screen height	613 mm 24.1"
Weight	104 kg/module

Display capabilities		OVF-708	OVF-715	
	Resolution	XGA 1024 x 768 TruePixel	SXGA* 1400 x 1050 TruePixel	
	Absolute resolution	19 dpi	25 dpi	
	Luminous flux @ 6500 K	875	1000	
	Contrast	1600:1	1700:1	
	Color	100% EBU	100% EBU	
	White point	6500 K, natural lighting (1)		
Imaging device	DMD-chip			
	OVF-708: 0.7" LVDS ±12° dark metal III, Brilliant Color™ OVF-715: 0.95" LVDS ±12° Brilliant Color™			
	Pixel accuracy			
	PixelTrue display, shows each pixel true to the input pixels without scaling or smoothing effects			
	MTBF of DMD			
	typ. 650,000 hours			
	Life time of DMD			
typ. > 100,000 hours				
Lamps	Image retention			
	no image retention or burn-in			
	Lamps			
	Choice between 120, 132 and 180 W			
	Lamp life (2)	120 W	132 W	180 W
		10,000 hrs	6,000 hrs	4,000 hrs
	Lamp redundancy			
Cold standby or hot standby with redundant powersupply Automatic lampswitch by Autosensing lamp failure				
Color wheel	Lamp replacement			
	Defect lamp can be hot-swapped without image loss			
	Lamp switch			
	Dynamic feedback of brightness and color readjust display wall to equal performance			
	Switching Time			
	< 1.5 seconds			
	I-lamp			
intelligent lamp carries o.a. lamp life information & spectrum				
Color wheel	Color wheel, rotation speed & lifetime			
	Color wheel cartridge with MTTR < 5 minutes			
	Rotation speed 3x better for image representation			
Lifetime air bearing with rating of 50,000 hours				

(1) Special 3200 K option for backdrop • (2) Lamp manufacturer specs @ IEC 61947-1 test conditions

Power	AC input voltage						
	100-240 VAC, 60-50 Hz						
	Power (W)	120 W	132 W	180 W			
	Cold Standby	< 250	< 275	< 335			
	Hot Standby	< 390	< 430	< 550			
	Heat dissipation (BTU/h)	120 W	132 W	180 W			
Signal	Cold Standby			< 850	< 900	< 1145	
	Hot Standby			< 1325	< 1375	< 1875	
	Signal input/output			Dual DVI-D in/Dual DVI-D out with loophrough			
	Pixel clock			162 MHz			
	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 DVI-D format (with scaler)			
	Cropping			Yes			
	Scaling (optional)			up- and down scaling			
	Communications	Barco control manager			Graphical representation of display wall on operator PC		
					Integrates separate display 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			Video wall module settings and control over CAT5 cable through standard Ethernet browser				
			Easy and fast firmware upgrading over Ethernet				
Autodiagnostics			Low level projector self test				
Integration to third party equipment			External display wall control from different devices through SOAP based API				

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Barco Control Rooms 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.barco.com
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