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[6], 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[6] 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[6] operates unnoticed in the background and requires no operator intervention whatsoever. For instance, Sense[6] 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[6] 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

BARCO

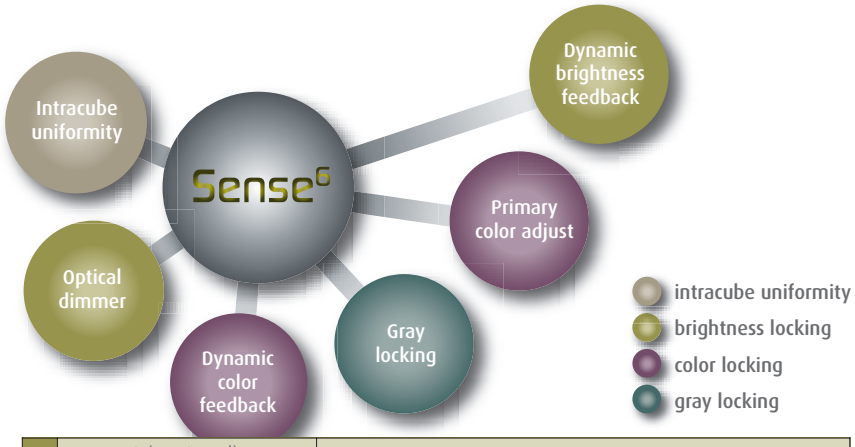
Visibly yours

Features of the OVF-708 and OVF-715

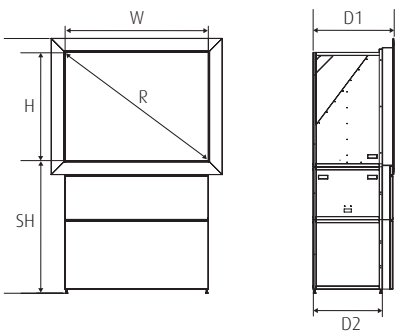
	OVF-708	HVA	HVM	HVX	OVF-715	HVA	HVM	HVX
70"	Power	Luminance (cd/m²| ftL) (1)			Power	Luminance (cd/m²| ftL) (1)		
	120 W	145 | 43	295 | 87	730 | 215	120 W	165 | 49	330 | 97	820 | 241
	132 W	160 | 47	325 | 96	800 | 235	132 W	180 | 53	365 | 107	900 | 265
	180 W	215 | 63	n.a.	n.a.	180 W	245 | 72	n.a.	n.a.
	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

	Screen type	Brightness	High contrast	Full viewing angle	Half gain angle (h.|v.)	1/5 gain angle (h.|v.)
Screens	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°



Sense⁶	Sense⁶ (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 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
	Color locking	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
	Gray locking	Makes gray levels equal across projection modules



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 / module	150 kg | 330.7 lbs/module

Display capabilities

	OVF-708	OVF-715
Resolution	XGA 1024 x 768 TruePixel	SXGA+ 1400 x 1050 TruePixel
Absolute resolution	19 dpi	25.4 dpi
Luminous flux @ 6500 K,132W	875	1000
Dynamic contrast	4800:1	5100:1
Color	100% EBU	100% EBU
White point	6500 K, natural lighting ([1])	

Imaging device

DMD-chip

OVF-708: 0.7" LVDS ±12° DarkChip3, BrilliantColor™
OVF-715: 0.95" LVDS ±12° DarkChip3, 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

Lifetime of DMD

typ. > 100,000 hours

Image retention

No image retention or burn-in

Lamps

Lamps

Choice between 120 W, 132 W and 180 W

Lamp life ([2])	120 W	132 W	180 W
	10,000 hrs	6,000 hrs	6,000 hrs

Lamp redundancy

Cold standby or hot standby with redundant power supply
Automatic lamp switch by autosensing lamp failure

Lamp replacement

Defect lamp can be hot-swapped without image loss

Lamp switch

Dynamic feedback of brightness and color readjusts video 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

3x speed for better image representation

Air bearing with rating of 50,000 hours

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
Cold standby	< 850	< 900	< 1145
Hot standby	< 1325	< 1375	< 1875

Signal

Signal input/output

1 x DVI-D in/out, 1 x Dual-link DVI-D in/out

Pixel clock

162 MHz | 270 MHz ([3])

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,
dual XGA, triple XGA ([3]), quad XGA ([3]), dual SXGA+([3])

Cropping

Yes

Scaling (optional)

up- and down scaling

Communications

Barco Wall Control Manager

Graphical representation of video wall on operator PC

Integrates separate projection 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 upgrade over Ethernet

Autodiagnostics

Low level projector self test

Integration to third party equipment

External video wall control from different devices through SOAP based API

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

Ref. no. R599020SS1008R003

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