OverView fD70-DL



Barco's OverVIEW fDG70-DL and OverVIEW fDR'70-DL are front accessible rear-projection systems with the cutting edge DLP™ technology. The display wall systems are optimized for use in a 24/7 mission critical environment. A built-in second lamp will make you rely for 100% on the availability of your display wall. The OverVIEW D series delivers an outstanding image quality, reliability and ease of use.

70" DLP™ projection series with front access

Superior display quality

- latest high contrast DLP™ technology
- optimal brightness, contrast, color uniformity and large viewing angles
- Optical Dimming to reach equal luminance values without loss of contrast or color depth on all screens
- Dynamic Feedback technology to maintain constant luminance over time

Reliability and lifetime serviceability

- dual redundant lamp allows you to rely 100% on your Barco display wall
- engineered for ease of maintenance
- dustfree overpressure design
- access to operation and service adjustments through OverView Control Manager
- hot swappable lamp from the front gives 100% system up-time and allows lamp maintenance schedule
- Barco's Lamp-Lease Program allows you to efficiently control operational costs

Projection system

- flexible design for a linear or curved setup
- requires minimal installation depth thanks to front access can be put against the wall
- modular built-up for easy & fast installation



Features of the OverView fD70-DL projection module

Barco designed a projection module based on an innovative modular approach. The concept of having a separate projection unit and illumination unit is unique and results in an easy to maintain projection cube with superior picture quality.

The built in lamp redundancy reduces operational costs and ensures a permanent image. The optical dimmer guarantees equal brightness and contrast across the display wall and keeps the performance of the display constant over time. All maintenance can be done from the front without interruption of the operation.



Luminance guidelines

- all luminance values are given for on-axis viewing. The 50% luminance value will be present when viewing under the half gain angles (see 'screens table')
- all luminance values are measured at 6500 K color temperature, normally applied in control rooms for natural lighting conditions
- luminance at other color temperatures can be communicated upon request

High-precision screen

- provides high-contrast, even in bright ambient light
- type of screen is selected based on overall environmental conditions and operational requirements
- excellent visibility under any viewing angle
- screen modules with easy mounting and narrow screen gap*
- all screens are double element screens to avoid hotspotting on each display

Illumination unit

- modular illumination unit
- removable for repair work
- can be replaced without requiring geometrical readjustment
- contains all high power supplies
- integrated redundant lamp system
- active system to reduce tolerancing on brightness
- dual redundant lamp drivers
- choice between high brightness version with a 120W lamp or an economical version with lower cost of ownership with a 100W lamp (option)

Selected for best ergonomic viewing of display wall application

Screens	General	Full viewing angle	Half gain angle
• HVA	High contrast/Excellent viewing angle	180°	35° 35°
• HVM (1)	Medium brightness/Low speckle	180°	35° 27°
• HVX (2)	High brightness	180°	35° 10°

Viewing angle: angle at which the screen content is still viewable, regardless brightness Half gain angle: angle at which brightness drops to half of on-axis brightness (') option, (2) on special request

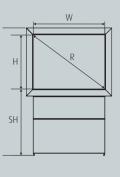
Projection unit

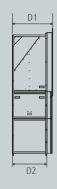
- single-chip DLP™ technology
- OVERVIEW fDG70: XGA (1024X768) & OVERVIEW fDR*70: SXGA* (1400x1050) resolution
- modular projection unit
- high contrast
- ergonomic luminance
- large color gamut spans the EBU/SMPTE color triangle
- easy to adjust by mini-zoom lens
- easy maintenance
- removable color wheel cartridge
- integrated optical dimmer

^{*} screen gap: 1.5 mm @ 22 C and 50% relative humidity









OverView fDG70-DL
OverView fDR*70-DL
1,400 mm 55.1 inch
1,050 mm 41.34 inch
70" nominal
793 mm 31.2 inch
689,5 mm 27.15 inch
4:3
1,288 mm 50.7 inch
836 mm 32.9 inch
613 mm 24.1 inch

(1) standard. Other support heights possible upon request

Optical dimming with dynamic feedback

A patent pending optical dimming system in combination with a dynamic feedback control loop results in a uniform image across the wall and maintains the brightness over time. This feature allows:

- independent brightness control of each module without loss of contrast or color depth
- equal brightness, contrast and color depth across the display wall
- equal luminance of the display wall across time
- ergonomic dimming of full display wall for day and night operation

OverView Control Manager

- control of the wall from any place
- graphical user interface represents the display wall on your desktop
- exchanges information between display modules
- display wall health status
- brightness control
- · lamp overview and report

70" OverView fDG70-DL, OverView fDR [.] 70-DL							
Luminance (cd/m² ftL)	HVA	HVM (1)	HVX (2)				
• XGA 100W	95 28	170 50	425 125				
120W	114 33	190 57	515 150				
• SXGA ⁺ 100W	110 33	190 55	495 145				
120W	125 40	230 65	560 165				
 Operating conditions 							
Rel. humidity	Up to 90% r	Up to 90% non condensing					
Temperature	10°C-40°C 5	10°C-40°C 50°F-105°F					
 Storing conditions 	0°C-40°C 32	0°C-40°C 32°F-105°F					

 $(\sp{1})$ Option, $(\sp{2})$ on special request

Redundancy concept

- dual lamp: 100% availability of your display wall
- 2 modes:

Hot standby: 2nd lamp is on, i.e. the switching time in case of lamp failure of the master lamp is virtually zero **Cold standby**: 2nd lamp is switched off during operation, i.e. it will only be activated when master lamp failure is detected – switching takes around 30 seconds

lamp change without direct operator intervention

- hot swappable lamps: failed lamp can be replaced while other lamp generates image
- lamp changes can be planned
- lower operational costs
- Dual DVI-D input on SXGA* version: allows connection of two simultaneous sources or controllers for full redundancy upon failure of one source or controller

Specifications OverView fD70-DL

	OverView fDG70-DL		OverView fDR*70-DL			
	100 W	120 W	100 W	120 W		
Resolution	XGA		SXGA+			
DMD-chip	1024x768 pixels		1400x1050 pixels			
• Chip	0.7", DDR, ±12°		0.9", LVDS, ±12°			
 MTBF of DMD 	typ. 650,000 hours					
 Life time of DMD 	typ. 100,000 hours					
Lamp modes	cold standby, hot standby					
Lamp switching time (1)						
 After lamp switch 	0.5 seconds					
 After lamp failure 	1.5 seconds					
AC Input Voltage	100-240 VAC, 60-50 Hz					
Power (W)						
 Cold standby 	190	210	190	210		
 Hot standby 	285	325	285	325		
Heat dissipation (BTU/h)						
 Cold standby 	650	715	650	715		
 Hot standby 	975	1110	975	1110		
Lamp life (²)	2 x 10,000 hours	2 x 6,000 hours	2 x 10,000 hours	2 x 6,000 hours		
Brightness (typ. Lumen)	550	675	650	800		
Contrast (typ.)	1300:1		1600:1			
Brightness uniformity (3)	90%					
	orightness					
	Active patent pending med	9	rancing reduction			
Optical Dimmer	Optical Dimming with Dynamic Feedback					
 Brightness locking 	50-100% optical dimming range, without color shift, loss of contrast and loss of colordepth					
 Image equalization 	All display modules can be set to equal brightness and contrast					
Color	EBU Color Triangle					
 White point 	6500K, but can be set to other values					
Signal input						
 Standard 	DVI-D dual DVI-D					
 Optional on XGA model 	DVI-D in/out with support for dual XGA input timing 1024x1536					
 Optional 	OverView D Multi input module: DVI-D, DVI-I, Multi Sync RGB input (VGA upto UXGA), Video Input (PAL, NTSC, SECAM)					
Genlocking	Yes					
 Genlock Frequency Range 	48-62 Hz					

^{(&#}x27;) Hot standby-image reaches 50% brightness level, (2) lamp manufacturer specs @ IEC 61947-1 test conditions, (3) ANSI points



for updated product information see "Visual displays"at www.barcocontrolrooms.com/en/products

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