

# OL(F)-510 and OL(F)-710

## DLP™ LED-lit projection module



With the WXGA, HD ready LED-lit OL and OLF systems, Barco introduces the next generation of video wall technology. Based on many years of experience with LED displays, Barco has designed a seamless rear-projection video wall with a LED-based illumination unit, that is truly ready for 24/7 use. Barco's LED-based projection series consists of the rear-accessible OL and front-accessible OLF video walls. Both are available in 50-inch and 70-inch screen sizes. All of them offer an ergonomically excellent viewing experience, with the sharpest and most saturated colors in WXGA, HD ready resolution (1368x768).

The OL and OLF video walls have been designed for an entirely maintenance-free operation over several years, without any need for consumables. Barco's new OL and OLF 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. Sense<sup>6</sup> continuously measures brightness and color and adjusts the color space to provide an image that is most convenient for the human eye. This means that no maintenance or manual adjustments are needed.

Thanks to the small depth of the projection modules, the OL and OLF video walls are ideally suited for installation in confined spaces. The OL and OLF rugged design makes the video walls ideally suited for industrial environments.

### Excellent viewing ergonomics

- Wide LED color gamut
- WXGA, HD ready resolution
- No color break up

### Maintenance-free

- 80,000 hours LED lifetime in eco mode
- more than 5 years service-free runtime
- solid state technology - no moving parts
- Front access version for easy servicing

### Green focus

- No wearing parts, no waste
- No mercury lamps

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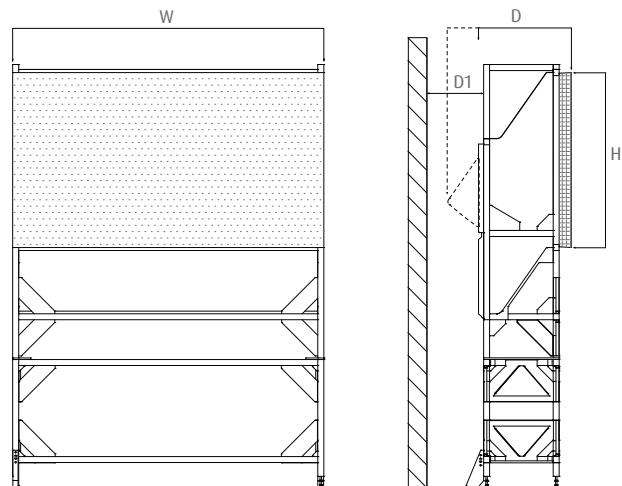
Visibly yours

# Technical specifications OL-510, OLF-510, OL-710 and OLF-710

|   |  |                            |                            |
|---|--|----------------------------|----------------------------|
| Display capabilities  | Resolution                                       |                            |                            |
|   | HD ready, 1368x768                               |                            |                            |
|   | Brightness                                       | OL(F)-510                  | OL(F)-710                  |
|   | on screen  | Typ. 330 Cd/m <sup>2</sup> | Typ. 170 Cd/m <sup>2</sup> |
|   | Dynamic contrast                                 |                            |                            |
|   | 560,000:1  |                            |                            |
|   | Color  |                            |                            |
|   | Up to 165% EBU <sup>(1)</sup>                    |                            |                            |
|   | White Point                                      |                            |                            |
|   | adjustable 2,300K to 15,000K                     |                            |                            |
| Screen  | Uniformity                                       |                            |                            |
|   | 95% ANSI 9                                       |                            |                            |
|   | Screen   |                            |                            |
|   | FXS, with 34°/33° (+/- 3°) half gain angle       |                            |                            |
|   | Screen gap <sup>(2)</sup>                        | sides                      | top/bottom                 |
|   | OL-510   | 0.8 mm   0.03"             | 0.5 mm   0.02"             |
|   | OLF-510  | 1.8 mm   0.07"             | 1.5 mm   0.06"             |
|   | OL-710   | 1.0 mm   0.04"             | 0.7 mm   0.03"             |
|   | OLF-710  | 2.0 mm   0.08"             | 1.7 mm   0.07"             |
|   | Color stability                                  |                            |                            |
| Self calibration with spectrometer based Sense <sup>6</sup> |  |                            |                            |
| Dimensions (WxHxD)  |  |                            |                            |
| OL(F)-510: 1,088 x 612 x 445 mm   42.83 x 24.09 x 17.51"    |  |                            |                            |
| OL(F)-710: 1,550 x 872 x 625 mm   61.02 x 34.33 x 24.61"    |  |                            |                            |
| Distance cube/wall (D1)                                     |  |                            |                            |
| OL(F)-510: 150 mm   5.91"                                   |  |                            |                            |
| OL(F)-710: 215mm   8.46"                                    |  |                            |                            |
| Weight  |  |                            |                            |
| OL-510  | Projection Module                                | < 44 kg   97 lbs           |                            |
| OLF-510   | Projection Module                                | < 53 kg   117 lbs          |                            |
|   | Pedestal   | < 28 kg   62 lbs           |                            |
| OL-710  | Projection Module                                | < 66 kg   146 lbs          |                            |
| OLF-710   | Projection Module                                | < 74 kg   163 lbs          |                            |
|   | Pedestal   | < 39 kg   86 lbs           |                            |
| LED   | Light source                                     |                            |                            |
|   | 6x redundancy for each of 3 LED's                |                            |                            |
|   | LED lifetime                                     |                            |                            |
|   | > 60,000h <sup>(3)</sup> , > 80,000h in eco mode |                            |                            |
| MTBF LED > 500,000 h  |  |                            |                            |

|  |  |             |
|--|--|-------------|
| Operation                                  | Recommended maintenance interval                     |             |
|  | > 5 years  |             |
| Power                                      | Lifetime warranty against burn-in or image retention |             |
|  | Conditions for Operation                             |             |
| Signal                                     | 10°C-40°C, 50°F-104°F, up to 80% humidity (nc)       |             |
|  | AC input voltage                                     |             |
|  | 90 – 240 V, 50-60 Hz                                 |             |
|  | Power (typical, maximum, eco mode)                   |             |
|  | 230 W, 350 W, 170 W                                  |             |
|  | Heat dissipation (typical, maximum, eco mode)        |             |
|  | 785, 1,194, 580 BTU/h                                |             |
|  | Signal input/output                                  |             |
|  | 2x Dual link DVI in / 2x Dual link DVI out           |             |
|  | Communications                                       | Pixel Clock |
| 330 MHz                                    |  |             |
| Input Frequency                            |  |             |
| 24 – 62 Hz                                 |  |             |
| Genlock                                    |  |             |
| 49 – 61 Hz                                 |  |             |
| Minimum frame delay                        |  |             |
| 1 frame                                    |  |             |
| Signal processing                          |  |             |
| Loop through                               |  |             |
| Free cropping, free scaling <sup>(4)</sup> |  |             |
| Direct ethernet access                     |  |             |
| Built in web server                        |  |             |
| Graphical user interface                   |  |             |
| All settings and operational parameters    |  |             |
| Integration of third party equipment       |  |             |
| WEB service API <sup>(4)</sup>             |  |             |
| Warranty                                   |  |             |
| 2 years                                    |  |             |

(<sup>1</sup>) at maximum color mode, (<sup>2</sup>) at 25°C, (<sup>3</sup>) at 6500k, (<sup>4</sup>) optional



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Barco 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](http://www.barco.com).

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