# OverView OLF-510

Fully redundant 50" WXGA 16:9 LED video wall with front access



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|---|---|---|
| **12** BIT | **FRONT ACCESS** | **LOW NOISE** |
| **ALIGN** | **REDUNDANT** | **WEB SERVER** | **5Y** WORRY FREE |
| **SCALABLE** | **FXs** | **COMPACT** | **24/7** OPERATION |
| **SENSE⁶** | **COOLED** | **LED TECHNOLOGY** | **HD** 1360 X 769 |
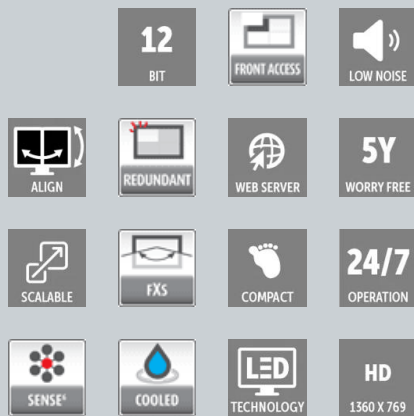
Barco's OverView OLF series LED-lit video walls are the first choice for 16:9 mission-critical control rooms that require a guaranteed uptime, and are limited in space. The modules' high level of redundancy, not only of the individual LEDs, but also of the LEDs' power supplies and even inputs, ensures nothing can go wrong, giving users the peace of mind they need. Front access eliminates the need for a rear maintenance area, for control rooms where space is a critical issue. Featuring a structure that can be tailored to the requirements of the customer, the OverView OLF series knows virtually no limits in size.

## Ultimate peace of mind

The OverView OLF-510 video wall modules have been designed for an entirely maintenance-free operation over several years, without any need for consumables. Barco's unique liquid cooling system ensures lower LED temperature, resulting in longer LED lifetime (>80,000 hours in eco mode). Displaying the sharpest and most saturated colors in WXGA resolution (1368x768), the OverView OLF-510 offers an ergonomically excellent viewing experience. The availability of alternative screen types makes sure you can adjust the video wall to your specific needs in terms of viewing angle and brightness.

## Always the most optimal picture

OverView OLF series video walls come with Sense[6], Barco's unique sensor technology that provides brightness and color stability over time and across the entire display. Sense[6] continuously measures brightness and color by means of a high-quality spectrometer, 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. The colors can also be adjusted to the very specific needs of TV cameras, making the OverView OLF series suitable for backdrop applications.

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### Award-winning design
The OverView OLF series' design, combining usability with style, has been lauded with the prestigious Red Dot Design Award. The individual modules have the smallest depth on the market today, allowing to build the most shallow video walls possible. Combined with the front access, this makes the OverView OLF series the product of choice for installation in confined spaces.

### Highest level of redundancy
- 6x redundancy of LEDs (per color) & LED power supplies
- 2x redundancy of dual-link inputs

### Unique Barco innovations
- Sense$^6$ automatic full spectrum calibration
- Active liquid cooling
- Front access, removing need for rear maintenance area

### Excellent viewing ergonomics
- Wide LED color gamut
- WXGA resolution
- No color break up
- Excellent off-axis viewing with next-generation screen types

### Maintenance-free
- 80,000 hours LED lifetime in eco mode
- 5 years service-free runtime
- No color wheel needed

### Green focus
- No wearing parts, no waste
- No mercury lamps needed

## General specifications

| | |
|---|---|
| Resolution | WXGA (1368x768 pixels) |
| Brightness | On-screen: 460 Cd/m² |
| On-screen contrast | 560,000:1 |
| Color | Up to 165% EBU (at maximum color mode) |
| Display technology | Rear projection DLP |
| White point | 2,300K \| 6,500K \| 9,300K \| arbitrary |
| Brightness uniformity | 95% ANSI 9 |
| Screen | FXS, with H/V 35°/33° ( +/-3°) half gain angle |
| Screen gap | Hor: 1.8 mm \| 0.07", Vert. 1.1 mm \| 0.05" (@ 25°C) |
| Color stability | Self calibration with spectrometer based Sense[6] |
| Dimensions | • Diagonal: 50" (Approx.)<br>• Width: 1,088 mm \| 42.8"<br>• Height: 612 mm \| 24.1"<br>• Depth: 454 mm \| 17.9"<br>• Weight: Projection Module: < 53 kg \| 117 lbs |
| Light source | 6x redundancy for each of 3 LED's |
| Light source lifetime | > 60,000h (at 6500k)<br>> 80,000h in eco mode<br>MTBF LED > 500,000 h |
| Conditions for operation | 10°C-40°C, 50°F-104°F, 80% humidity (non-condensing) |
| AC input voltage | 90 – 240 V, 50-60Hz |
| Power | 170W (eco)<br>230W (typ.)<br>350W (max) |
| Heat dissipation | 580 BTU/h (eco)<br>785 BTU/h (typ.)<br>1,194 BTU/h (max) |
| Signal | 2x Dual link DVI-D in / 2x Dual link DVI-D out<br>Single link DVI-D in, with HDCP (optional) |
| Direct ethernet access | Built in web server |
| Graphical user interface | All settings and operational parameters |
| Pixel clock | 330 MHz |
| Input frequency | 24 – 62 Hz |
| Genlock | 49 – 61 Hz |
| Signal processing | Loop through<br>Free cropping, free scaling (optional) |
| Integration to third party equipment | WEB service API (optional) |
| Warranty | 2 years |

**Last updated: 08 Jul 2024**

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