SLite / DLite

Outdoor LED display solutions

SLite DLite

The SLite and DLite are Barco's outdoor LED display product lines. These products are durable IP65 rated, available in 2 size formats, and deliver high-resolution, full color images with unequalled brightness and contrast levels.

Purpose built for life on the road, Barco's outdoor LED modules form part of a total rental solution that includes rugged rental structures, sturdy flight cases as well as a powerful, user-friendly processor, which allows you to have your display installed and calibrated in no time.

The SLite and DLite product lines are available in various resolutions. The SLite range is available in 10mm, 14mm and 22mm resolution versions, while the DLite product has a 7mm resolution.

Typical applications include rock and roll concert tours, music festivals, fashion shows, mobile displays and sport events.

BARCO

Visibly yours

Outdoor LED display solutions - built for the road

The SLite and DLite display products have been specifically engineered with the demanding requirements of the rental & staging industry in mind. With their IP65 certification, both products offer the perfect solution to generating the ultimate picture in all outdoor environments.

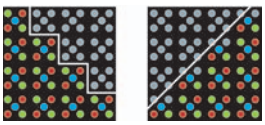
Fully engineered and manufactured by Barco, they offer cutting-edge LED display technology and design quality. An extremely stringent selection of the LED components together with Barco's extensive experience in image processing and generation guarantees ultimate picture quality, color uniformity and total system reliability.

Unmatched image quality & display performance

With its ultra-high light output, the Barco outdoor LED display products offer unequalled brightness and contrast levels, making them ideal for use in very bright and demanding outdoor locations, even in direct sunlight.

The products have been designed to guarantee optimal viewing conditions for all viewers. Even at viewing angles of 120 degrees horizontal and 60 degrees vertical, viewers still enjoy a super bright image.

Barco's unique, proprietary Dual Pixel Technology, incorporated in SLite 10, SLite 14 and DLite 7 products, offers a greatly enhanced perceived visual resolution. Each cluster of 5 LED components is addressed as 2 discrete pixels, which doubles its physical resolution, offering you 'more resolution for your money'.



With the Dual Pixel Technology individual leds can be addressed, resulting in a higher resolution display with an even smoother image.

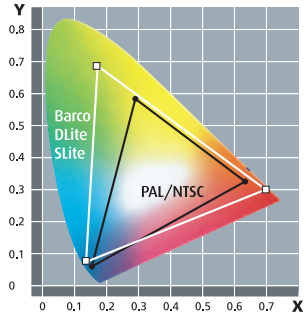
True color reproduction & authentic video quality

The SLite and DLite display products incorporate Barco's proprietary LED display Color signature, True Color Reproduction™ and True Motion Reproduction technology, which ensure accurate color uniformity and smoother, flicker-free video. Whether it is used as an image magnification or for data content, the SLite and DLite display products offer the perfect picture over the lifetime of the display.

True Color Reproduction

Barco's True Color Reproduction Technology ensures color accuracy and consistancy across the entire screen and across time

- System Color Signature
  Monitors individual LED color signature, overall runtime and temperature thresholds



- True Color Reproduction
  Barco's expertise in color processing ensures that an extensive range of colors can be shown and adjusted to PAL/NTSC standards or beyond.

- Accurate Image Processing
  Very accurate reproduction is achieved due to 14-bit processing. This creates smooth and accurate color shades.

- Pixel Based Motion Compensation
  For fast moving items without motion blur.

STS Communication | **Donna Sotto le Stelle**

Durable and reliable

- IP65 certified module enclosures

  Barco's DLite and SLite LED modules are encased in rugged IP65 certified metal enclosures, making them completely dust and weather proof and ideal for repeated use in harsh rental and staging environments.

- Endurance tested LED modules

  All Barco's LED modules conform to the highest engineering standards and are endurance tested to ensure maximum system integrity.

- Advanced heat management system

  Each LED module is purpose build to minimize internal heat build-up by inclusion of an advanced heat management system.

  The system encompasses heat sinks, heat sensors and internal fans, ensuring that the tile's components always operate even at high temperatures and in harsh direct sunlight.

- Ultimate system reliability

  Barco's integrated quality control approach in both component sourcing & manufacturing as well as product design ensures a quality product that delivers a secure long-term investment.

Flexibility through modularity

- Flexibility and seamless images

  Barco's modular concept enables optimal flexibility and truly seamless images each and every time you erect your display.

- Ease of configuration

  Barco's built-in intelligence allows the system to configure itself regardless of the shape, size or aspect ratio. Video or data content can come from a variety of sources without having to undergo unnecessary scaling.

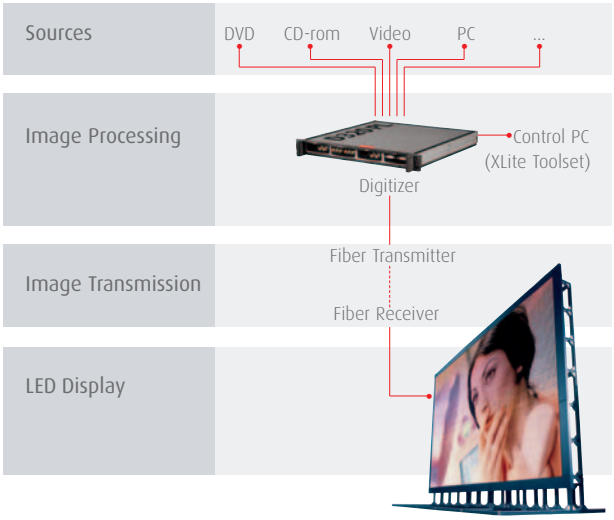
- Ease of service

  State of the art mechanical design allows ease of servicing of modules while the same built-in "intelligence" enables auto-configuration and hot-swap of tiles without interrupting the performance of the display, guaranteeing minimum down-time to repair the display.

Powerful processing & user-friendly control

Barco's SLite and DLite displays are controlled by an advanced image control system which includes Barco's range of D320 digitizers and its proprietary XLite toolset software allowing you to display and control your display content at the simple touch of a button.

Transport of data stream from digitizer to display is via a standard data cable. If the display is some distance away from the source /digitizer, the data is transmitted by means of a high-speed fiber-link, which transmits up to 1.2Gigabits per second.



Powerful D320 processor platform

Barco's D320 digitizer delivers advanced image processing that allows the display to accept a multitude of data and video sources.

- Four interchangeable input modules per D320
- Stackable an infinite number of times, allowing up to 4 sources to be displayed on as many screens as there are digitizers in the stack.
- Capable of being daisy-chained to a maximum of 64 units, allowing 256 sources to be displayed on a single screen.
- Combinations of stacking and daisy-chaining possible.
- Input formats mixed as required, while each source can also be individually scaled.

Scaling/compressing capability of the Barco D320 digitizer and the 'distributed processing' concept assure compatibility with all resolutions and aspect ratios. Due to the Lock-mode functionality, no external frame rate conversion is required, thereby eliminating the risk of artifacts.

Barco's D320 digitizer also allows for various on-screen image manipulations, including chroma-keying, alpha-blending, zooming and more.

Advanced installation and control software

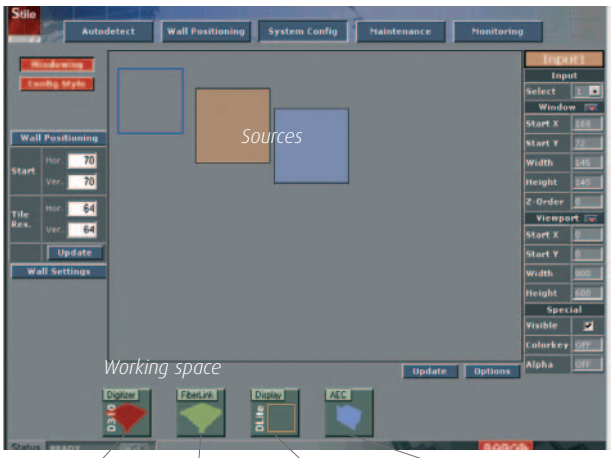
Barco's XLite Toolset is an integrated software package, which provides you with a user-friendly, intuitive, graphical interface for fast installation, system calibration as well as layout configuration and control of your display.

- Installation & calibration

  The XLite software makes installation and calibration of your display system as easy as can be.

  In a number of easy steps your LED display will be automatically configured and calibrated for optimal installation and superior image quality.

  Each display generates and maintains its own database, which includes specific information on each of the individual tiles, such as its unique "System Color Signature", including serial number and operating hours. With this information the tiles can easily be calibrated for color uniformity across the entire display.



Processor type *Fiber Link* *LED Wall type DLite/SLite* *Ambient Environmental Controller*

- Layout configuration & control

  The XLite toolset also provides user-friendly system configuration as well as layout configuration and control.

  An extensive range of image controls and adjustments are also available to the end user for various types of input signals. These include:
  - Full control over equalization
  - Filters
  - Tint
  - Saturation
  - Luma Tracking
  - Luminance Delay
  - Dynamic Stabilizer
  - Clip to Sub-black (removing black wash-out)
  - Full control of Gamma Curves.

- Maintenance & monitoring

  The status of the display is constantly monitored by the XLite toolset.

  This diagnostic capability tracks any potential errors that may occur inside a tile and typical environmental changes such as temperature, power drops, etc.

Sources can be arranged ('Z' order) in any order, up to 64 layers. Each source can be made invisible, have color values adjusted, and transparency adjusted.

The total rental solution

Both the DLite and SLite LED modules form part of Barco's total rental solution, which includes sturdy flightcases, rugged rental structures and various mounting or set-up devices.

- Rugged rental structures
  Both DLite and SLite modules come with rugged rental structures, which allow the tiles to be clicked together simply and quickly to form a seamless display in no time.

- Easy set-up and tear-down
  With its specially engineered truss beams and foot systems, Barco's LED displays are purpose built for fast, easy set-up and repeated relocations.

- TUV safety certified rental structures and accessories
  All Barco's rental mechanics comply with the highest TUV standards, providing you complete peace of mind that your installations meet the highest safety standards.

Fully cross-rentable

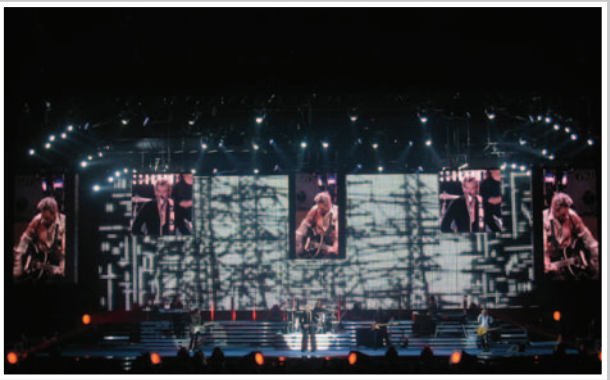
As part of Barco's total rental solution, both the DLite and SLite LED modules are fully cross-rentable, allowing you to maximise the return on your investment.

- Each tile features Barco's proprietary True Color Reproduction System and System Color Signature™ technology, which ensure true color rendering of the display from delivery through the entire lifetime of the display.
- This technology also allows you to mix and match tiles of different batches and various run-time ages to obtain a seamless display with a perfect image every single time.
- Each individual LED within each cluster has its color characteristics and brightness robotically measured at Barco's factory before being installed on an EEPROM on each tile.
- Every time a wall in erected, the information stored in the EEPROM is read by the D320 digitizer as its processes and distributes the signal to the display.
- Each individual LED then undergoes individual color and brightness corrections to ensure a uniform image across the entire display.

Countless applications

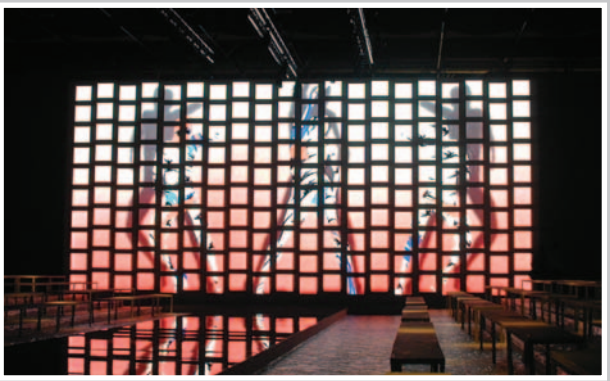
Bon Jovi | XL Video

AV-Teknik



Johnny Halliday | Perfect

Nocturne Productions | Paul McCartney

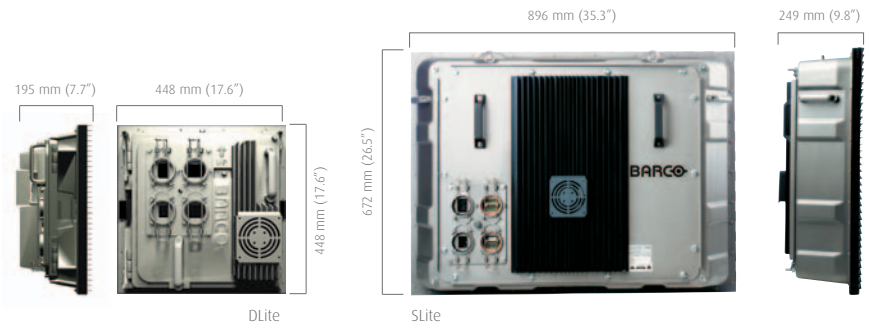


Versace Fashion Show | STS Communication

I-mag Video | Toby Keith

SLite / DLite specifications

	DLite 7	SLite 10	SLite 14	SLite 22
Visual resolution	7 mm	9,3 mm	14 mm	22,4 mm
Physical resolution	14 mm	18,6 mm	28 mm	22,4 mm
Brightness	6500 NIT	6500 NIT	6500 NIT	6500 NIT
(Display callibrated at 6500°K)	5000 NIT	5000 NIT	5000 NIT	5000 NIT
LED configuration	2R, 2G, 1B	2R, 2G, 1B	2R, 2G, 1B	1R, 1G, 1B
Pixel density	20 407/m² (1898/ft²)	11 449/m² (1064/ft²)	5098/m² (474/ft²)	1991/m² (185/ft²)
	4096/tile	6912/panel	3072/panel	1200/panel
Viewing angle (min. 50% brightness)				
• Horizontal	120°	120°	120°	120°
• Vertical	60°	60°	60°	60°
Lifetime (full white - half brightness)	50 000 h	50 000 h	50 000 h	50 000 h
Power consumption / tile				
• maximum	250 W	720 W	720 W	720 W
• average	62 W	180 W	180 W	180 W
Weight / tile (excluding structure)	14 Kg (30,8 lbs)	34 Kg (75 lbs)	34 Kg (75 lbs)	34 Kg (75 lbs)
Processing (Color)	+10 bit	14 bit	14 bit	14 bit
Colors	1,07 billion	4,4 trillion	4,4 trillion	4,4 trillion
Refresh rate (PAL/NTSC) minimum	400 Hz	800 Hz	800 Hz	800 Hz
Ruggedness	IP 65	IP 65	IP 65	IP 65
Temperature				
• operating	-20 - 40°C (-4 - 104°F)	-20 - 40°C (-4 - 104°F)	-20 - 40°C (-4 - 104°F)	-20 - 40°C (-4 - 104°F)
• storage	-20 - 60°C (-4 - 140°F)	-20 - 60°C (-4 - 140°F)	-20 - 60°C (-4 - 140°F)	-20 - 60°C (-4 - 140°F)
Humidity				
• operating	10 - 99%	10 - 99%	10 - 99%	10 - 99%
• storage	10 - 99%	10 - 99%	10 - 99%	10 - 99%
D320 input compatibility (modules)	S-Video - Composite - YUV - RGB - SDI - HDSDI - Data DVI up to UXGA			
Certification	UL - CE - TUV Class A			
Ordering information				
• DLite 7 R9004005				
• SLite 10 R9004210				
• SLite 14 R9004310				
• SLite 22 R9004400				



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