

FLM HD Series

Most silent, compact high brightness native HD projectors



Barco introduces the FLM HD20, the brightest HD projector on the market today. Together with the FLM HD14 and FLM HD18, these are the quietest native HD projectors on the market today offering 14,000, 18,000 and 20,000 lumens. Being very compact and extremely bright due to our liquid cooled optics (patent pending), the FLM projector is designed to be the perfect solution for rental & staging applications in large events and venues. It also solves the increased need to project high brightness native HD images.

The FLM boasts fully sealed optics and impressive lamp maintenance ensuring an overall lower cost of ownership. Moreover, we introduce a new High Definition, High brightness lens range, the TLD+HD lenses, resulting in an even better image quality. This new range can be re-used on the industry leading Barco RLM and SLM projector series as well. Furthermore, you will enjoy exceptional video performance thanks to advanced 10 bit processing.

Its exceptional brightness and near silent operation make it perfect for that special occasion where quality and high brightness cannot be compromised.

BARCO

Visibly yours

Ultra bright 20k stunning images

Be ready to be impressed by crisp, clear images (both data and video) in the most demanding environments. Barco's FLM HD projectors include a high reliable, high contrast 3-chip DLP™ engine, based on Texas Instruments technology. The FLM projector offers true native **HD** resolution, **14,000, 18,000** or **20,000 center lumens** and a **contrast ratio of 1800:1**. Enjoy exceptional video performance thanks to **advanced 10-bit processing** and highly uniform images thanks to special optical design.

Fit for any Widescreen & Creative application

Able to meet the most challenging large venue projections, the FLM HD offers the following features:

- **High brightness** projection at 14,000, 18,000 or 20,000 lumens
- **"High-Contrast Mode"** (2400:1) feature enables you to make a trade-off between brightness and contrast, depending on your application.
- **Low video delay**, very important when broadcasting live events
- Ultimate solution for projection on **multiple screens and special surfaces**
 - Barco's unique ScenergiX software enables fast & easy edge-blending when using multiple projectors
 - Multiple color adjustments possible for optimal multi-screen applications
 - Projection on spherical surfaces is easy thanks to the special optional WARPING module

Low total cost of ownership

Reliable, and built to work around the clock, the FLM series are designed to minimize the total cost of ownership.

- Sealed engine with constant image quality over time
- Projector designed for high resistance against external contamination
- Extended lamp warranty (750 hours)
- Extremely good lamp maintenance (typical 1,000 hrs)
- A new improved TLD+ HD lens range* that is fully compatible with the industry leading Barco SLM and RLM projector series

* available as of September 2008



Universal lense range: one lense range for RLM, SLM and FLM.

New "Projector Toolset" software

The FLM comes with standard "Projector Toolset" software, offering basic control, diagnostics and other features (e.g. a lens program). Additional software plug-ins can be offered as an option delivering added functionality for multi-screen applications, advanced settings control, etc. A user friendly GUI (Graphical User Interface) ensures easy control.



Purpose built for demanding rental & staging applications

Recognized as the industry leader for over ten years in the Rental & Staging market, Barco understands, like no other, the needs of this demanding industry. During the design of the FLM, Barco has given priority to features enabling easy set-up, flexible installation, swift transportation and servicing.



Easy to set-up and install

- Compact projector size
- Lenses
 - Very stable lens holder for rockstable images
 - Wide choice of motorized 'click and play' lenses (TLD+ HD lenses)
 - Very large vertical & horizontal lens shift range
- Source connection
 - Wide range of analog and digital inputs, incl. DVI-HDCP
 - Built in Warping
 - Auto-detection of input sources
 - Black level and white level adjustment for analogue and digital inputs
- Stacking & rigging features standard incorporated
 - Skew adjustment for dual stacked projector
 - Tilt and inclination adjustments in rigging kit
- Control
 - Remote control through network interface
- Special adapter plates available in case SLM or RLM projectors are used as backup units

Fully sealed optics

Barco's FLM HD series features fully sealed optics that guarantees protection against smoke and dust often found in entertainment and large event environments.

Universal lamp house

- One lamp housing for all FLM projectors
- Lower total cost of ownership
- Experience better brightness
- Improved image quality

Easy to service

- Easy access to all optical components and adjustments
- Rugged and modular design with swappable parts
- Remote diagnostics through network interface

Easy to transport

- Lamp can remain in the projector during transport
- Projector flight case certified for the toughest jobs
- Dual stacked flight cases below 1.60m

FLM HD series specifications

	FLM HD14	FLM HD18	FLM HD20 ⁽⁶⁾
Light output ⁽¹⁾	14,000 center lumens	18,000 center lumens	20,000 center lumens
Resolution	1,400 x 1,050 (native)		
Contrast ratio ⁽²⁾	1,800:1 (full field)		
High Contrast Mode ^{(3) (4)}	2,400:1 (full field)		
Lamp	3kW Xenon		
Warranty universal lamphouse	750 Hrs		
Max. ambient temperature	40°C (104°F)		
Power consumption	3.6 kW	4 kW	4 kW
Mains voltage	200 - 240 V		
Weight	99 kg (220 lbs)		
Dimensions (W x L x H)	707 x 1025 x 548 mm (27.8 x 40.3 x 21.5 inch) • incl. carrying handle + rigging points		
Noise level at 40°C	56 dBA	58 dBA	58 dBA
FEATURES			
Scenergix	standard horizontal & vertical electronic edge blending		
Network connectivity	10/100 base-T		
Advanced picture in picture	2 sources simultaneous		
INPUTS			
Input source compatibility ⁽⁵⁾	max. input: up to QXGA (2048 x 1536)		
Standard inputs	configurable 5 cable (BNC) • DVI-HDCP • (HD)SDI (+ loop through) • Warping module		

⁽¹⁾ Measured with TLD 1.2:1 lens, on axis at 220 V (+/- 10% variation)

⁽²⁾ Full white / full black on full field

⁽³⁾ High Contrast Mode setting reduces light output to about 75% of the max. light output

⁽⁴⁾ Contrast ratio's up to 2000:1 are possible in high contrast mode in combination with TLD lenses

⁽⁵⁾ all current video sources in composite, S-VHS, RGB or component or Serial digital format all current proposed HDTV, extended and improved television standards (1080i, 720p, ...) computer and workstations with a resolution up to 1,600 x 1,200 most Macintosh computers direct digital interfacing with current and future digital standards

⁽⁶⁾ available as of September 2008



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DLP™ technology by Texas Instruments offers crystal clear images with superior quality. DLP is a trademark of Texas Instruments.

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.

Barco Events
Noordlaan 5, 8520 Kuurne - Belgium
Tel. +32 56 36 80 47 - Fax + 32 56 36 83 86
email: sales.events@barco.com

