

## FLM Series



### Most silent, compact 20k lumens projector

Barco's FLM R20+ is the quietest 20,000 lumens projector on the market today. Not only is it extremely bright and very compact but the FLM projector is designed to be the perfect solution for rental & staging applications in large events and venues.

The FLM boasts fully sealed optics and impressive lamp maintenance ensuring an overall lower cost of ownership. Moreover, the lens range (TLD HB) of the industry leading Barco RLM and SLM projector series can be re-used on the FLM series, meaning you do not have to invest in new lenses. 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**

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### 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 R20+ projector includes a high reliable, high contrast 3-chip DLP™ engine, based on Texas Instruments technology. The FLM projector offers true native SXGA+ resolution, 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 R20+ offers the following features:

- High brightness projection at 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 R20+ is designed to minimise 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)
- The lens range (TLD HB) of the industry leading Barco SLM and RLM projector series can be re-used on the FLM series, meaning no re-investment in new lenses.



Universal lens range: one lens 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 HB lenses)
  - Very large vertical & horizontal lens shift range
- Source connection
  - Wide range of analog and digital inputs
  - 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 R20+ features fully sealed optics that guarantees protection against smoke and dust often found in entertainment and large event environments.

### 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 R20+ specifications

Light output <sup>(1)</sup>	18,000 Ansi lumen • 20,000 Center lumen
Resolution	1,400 x 1,050 (native)
Contrast ratio <sup>(2)</sup>	1,800:1 (full field)
High Contrast Mode <sup>(3) (4)</sup>	2,400:1 (full field)
Lamp	3kW Xenon
Warranty universal lamphouse	750 Hrs
Max. ambient temperature	40°C (104°F)
Power consumption	3.6kW
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
<b>FEATURES</b>	
Scenergix	standard horizontal & vertical electronic edge blending
Network connectivity	10/100 base-T
Advanced picture in picture	2 sources simultaneous
<b>INPUTS</b>	
Input source compatibility <sup>(5)</sup>	max. input: up to QXGA (2048 x 1536)
Standard inputs	configurable 5 cable (BNC) • DVI • (HD)SDI (+ loop through)
<b>ORDER INFORMATION</b>	
Projector	R9004430
Spare lamp (universal lamp house)	R9854420
<b>LENSES</b>	
	<i>throw ratio on FLM R20+</i>
Fixed focal lenses	TLD HB 0.8                      0.75                      R9842040
	TLD HB 1.2                      1.1                          R9840770
Zoom lenses	TLD HB 1.6 - 2.0              1.45 - 1.85              R9842060
	TLD HB 2.0 - 2.8              1.85 - 2.55              R9842080
	TLD HB 2.8 - 5.0              2.55 - 4.55              R9842100
	TLD HB 5.0 - 8.0              4.55 - 7.3                R9842120
Dust filters • 6-pack • 24-pack	dense, high quality microfilters available as spare kit, in a 6-pack & 24-pack R9854470 R9854480
RGB HV module	R9854440
FLM/SLM adaptor plate	R9854490
FLM rigging kit	R9854500
FLM flight case	R9854510

<sup>(1)</sup> Measured with TLD 1.2:1 lens, on axis at 220 V

<sup>(2)</sup> Full white / full black on full field

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

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

<sup>(5)</sup> 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



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DLP™ technology by Texas Instruments offers crystal clear images with superior quality.  
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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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