

# FL33 series

LED-based DLP® projector



- **100,000-hour LED lifetime**
- **Designed for 24/7 operation**
- **Motion platform compatible**

Building on the FL32 series, the FL33 features 2nd generation LED's for increased brightness. State-of-the-art optical components further improve the color performance. Geared with the latest technology and innovation, this is a 1,000-lumen LED-illuminated projector.

## **Evolution**

The new generation of LEDs produce more brightness at less power, with 1,000 lumens in its brightest mode.

## **Quality**

The FL33 excels in reliability, operational warranty and performance. Motion platform compatible, designed and warranted for 24/7 use, it is perfect for demanding installations that require continuous performance and uptime.

## **Continuity**

The FL33 is based on the same platform as the FL32. Building on a platform with a proven track record of high-quality, high-performance products, the bar was raised even further.

- 2nd Generation solid-state LED illumination
- 100,000-hour LED lifetime
- 1920x1200 or 1920x1080 resolution
- Built-in smear reduction processing SRP™
- Up to 1,000 ANSI lumens brightness (mode dependant)



- Designed for 24/7 operation
- Unrestricted installation flexibility
- Wide range of Ultra high-quality projection lenses
- RealColor™ color management
- Motion platform compatible

**PRODUCT SPECIFICATIONS****FL33 SERIES**

Concept	0.95" / 0.98" DMD™ with ReaLED™ technology, all-glass optical design with lens shift
Resolution	1080p (1920 x 1080) WUXGA (1920 x 1200)
Brightness	Up to 1000 lumens
Contrast	Up to 7500 : 1 (Dynamic)
Technology	LED based DLP® digital projector
Aspect ratio	16:9 (1080p) 16:10 (WUXGA)
Display colors	30-bit RGB
Latency	~22 ms on graphics port
Computer graphics formats	up to 1920 x 1200 pixels
Horizontal scan frequencies	15 -150 kHz (resolution dependant)
Vertical scan frequencies	48 -190 Hz (resolution dependant)
Video formats	HDTV (1080p, 1080i, 720p) NTSC, PAL, SECAM
Lens operation	Motorized zoom, Focus, Shift, Iris and Mechanical shutter

Lenses	Standard projection lens
	<ul style="list-style-type: none"> <li>▪ Lens number: EN11 / 503-0056-00</li> <li>▪ Focus range: 2.0 - 15.0 m</li> <li>▪ Throw ratio                             <ul style="list-style-type: none"> <li>• 1.60 - 2.32 : 1 (1080p)</li> <li>• 1.60 - 2.32 : 1 (WUXGA)</li> </ul> </li> </ul>
	<p>Ultra Wide Angle</p> <ul style="list-style-type: none"> <li>▪ Lens number: EN12 / 503-0057-01</li> <li>▪ Focus range: 0.5 - 5.0 m</li> <li>▪ Throw ratio                             <ul style="list-style-type: none"> <li>• 0.74 : 1 (1080p)</li> <li>• 0.74 : 1 (WUXGA)</li> </ul> </li> </ul>
	<p>Wide Angle Zoom</p> <ul style="list-style-type: none"> <li>▪ Lens number: EN13 / 503-0058-00</li> <li>▪ Focus range: 1.0 - 15.0 m</li> <li>▪ Throw ratio                             <ul style="list-style-type: none"> <li>• 1.24 - 1.60 : 1 (1080p)</li> <li>• 1.24 - 1.60 : 1 (WUXGA)</li> </ul> </li> </ul>
	<p>Short Tele Zoom</p> <ul style="list-style-type: none"> <li>▪ Lens number: EN14 / 503-0059-01</li> <li>▪ Focus range: 3.0 - 30.0 m</li> <li>▪ Throw ratio                             <ul style="list-style-type: none"> <li>• 2.37 - 3.79 : 1 (1080p)</li> <li>• 2.37 - 3.79 : 1 (WUXGA)</li> </ul> </li> </ul>
	<p>Wide Angle</p> <ul style="list-style-type: none"> <li>▪ Lens number: EN15 / 503-0060-00</li> <li>▪ Focus range: 1.5 - 15.0 m</li> <li>▪ Throw ratio                             <ul style="list-style-type: none"> <li>• 1.16 : 1 (1080p)</li> <li>• 1.16 : 1 (WUXGA)</li> </ul> </li> </ul>
	<p>Long Tele Zoom</p> <ul style="list-style-type: none"> <li>▪ Lens number: EN16 / 503-0061-00</li> <li>▪ Focus range: 4.0 - 40.0 m</li> <li>▪ Throw ratio                             <ul style="list-style-type: none"> <li>• 3.80 - 6.50 : 1 (1080p)</li> <li>• 3.80 - 6.50 : 1 (WUXGA)</li> </ul> </li> </ul>
	<p>Wide Angle</p> <ul style="list-style-type: none"> <li>▪ Lens number: EN33 / 503-0171-00</li> <li>▪ Focus range: 1.0 - 10.0 m</li> <li>▪ Throw ratio                             <ul style="list-style-type: none"> <li>• 0.92 : 1 (1080p)</li> <li>• 0.92 : 1 (WUXGA)</li> </ul> </li> </ul>
	<p>Hemispherical</p> <ul style="list-style-type: none"> <li>▪ Lens number: HR95 / 503-0311-00</li> <li>▪ Focus range: 1.0 m - infinity</li> <li>▪ Field of view                             <ul style="list-style-type: none"> <li>• 1920x1080: 195° x 172° (1126 pixels)</li> <li>• 1920x 1200: 195° x 195° (1126 pixels)</li> <li>• 1400x1050: 195° x 195° (889 pixels)</li> <li>• 2560x1600: 195° x 179° (1609 pixels)</li> </ul> </li> </ul>

**PRODUCT SPECIFICATIONS****FL33 SERIES**

Image width	0.7 -5 m
Light source	LED
Lamp lifetime	Up to 100.000 hours
Computer inputs	1 x HDMI 1.3a 1 x DVI-D 1 x 5-BNC 1 x VGA 1 x XPort1 1 x XPort2
Video Input	1 x HDMI 1.3a 1 x YPbPr 1 x S-video 1 x Composite
(E)TSO	1 x RJ-45 TCP/IP 2 x 9-pin D-SUB RS232 1 x USB 2 x 12V programmable trigger (3.5mm mini jack) 1 x Wired Remote 3.5mm mini jack
Dimensions	510 x 223 x 376 mm (WxHxD)
Weight	14 kg
Shipping Dimensions	520 x 370 x 780 mm (WxHxD)
Shipping Weight from Factory	20 kg
Power requirements	Certified rating: 8.4A, ~100-240V, 50-60Hz Typical consumption: Max 325W@100V, ~2.7A, 50Hz; ~1.2A, 240V, 50Hz
Conformances	CE, FCC Class A and cNus
Operating temperature	10 -40 °C
Storage temperature	-20 -60 °C
Operating humidity	20 -80% RH
Storage humidity	10 -90% RH
Color	Black metallic
Warranty	Limited 3 years parts and labour. Up to 5 years total extended warranty available. Conditions apply.
24-7 documentation	This projector is designed and warranted for heavy duty 24/7 operation. Specific measures and design considerations have been made in order for it to comply with stringent requirements in challenging applications.
MTBF	59,542 hours
BTU per hour	

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Technical specifications are subject to change without prior notice. Please check [www.barco.com](http://www.barco.com) for the latest information.