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# FL33 series

## LED based DLP® digital projector



Building on our existing FL32 series, we present the FL33 with 2nd generation LED's for increased brightness. State of the art optical components further improve the colour performance. With the latest technology and innovations, we can now present a 1000 lumen LED illuminated projector.

### **Evolution**

The new Generation LEDs produce more brightness using less power, making the FL33 a 1000 lumen product in its brightest mode.

### **Quality**

Compared to competing products, the FL33 excels in reliability, operational warranty and performance. Being motion platform compatible, designed and warranted for 24/7 use, it is perfect for critical installations demanding continuous performance and uptime.

### **Continuity**

The FL33 is designed and constructed on the same platform as the FL32. Building on a platform with an already proven track record of high quality, high performance products, we now raise the bar even further and move our LED illuminated series into, and beyond the 1000 lumen realm.

**BARCO**

Visibly yours

## Product specifications

## FL33 series

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

**Lenses**

Standard projection lens

- Lens number: EN11 / 503-0056-00
- Focus range: 2.0 - 15.0 m
- Throw ratio · 1.60 - 2.32 : 1 (1080p)
- 1.60 - 2.32 : 1 (WUXGA)

Ultra Wide Angle

- Lens number: EN12 / 503-0057-01
- Focus range: 0.5 - 5.0 m
- Throw ratio · 0.79 : 1 (1080p)
- 0.79 : 1 (WUXGA)

Wide Angle Zoom

- Lens number: EN13 / 503-0058-00
- Focus range: 1.0 - 15.0 m
- Throw ratio · 1.24 - 1.60 : 1 (1080p)
- 1.24 - 1.60 : 1 (WUXGA)

Short Tele Zoom

- Lens number: EN14 / 503-0059-01
- Focus range: 3.0 - 30.0 m
- Throw ratio · 2.37 - 3.79 : 1 (1080p)
- 2.37 - 3.79 : 1 (WUXGA)

Wide Angle

- Lens number: EN15 / 503-0060-00
- Focus range: 1.5 - 15.0 m
- Throw ratio · 1.16 : 1 (1080p)
- 1.16 : 1 (WUXGA)

Long Tele Zoom

- Lens number: EN16 / 503-0061-00
- Focus range: 4.0 - 40.0 m
- Throw ratio · 3.80 - 6.50 : 1 (1080p)
- 3.80 - 6.50 : 1 (WUXGA)

Wide Angle

- Lens number: EN33 / 503-0171-00
- Focus range: 1.0 - 10.0 m
- Throw ratio · 0.92 : 1 (1080p)
- 0.92 : 1 (WUXGA)

Hemispherical

- Lens number: HR95 / 503-0311-00
- Focus range: 1.0 m - infinity
- Field of view · 1920x1080: 195° x 172° (1126 pixels)
- 1920x 1200: 195° x 195° (1126 pixels)
- 1400x1050: 195° x 195° (889 pixels)
- 2560x1600: 195° x 179° (1609 pixels)

**Image width**

0.7 - 5 m

**Light source**

LED

**Lamp lifetime**

Up to 100.000 hours

**Computer inputs**

1 x HDMI 1.3a1 x DVI-D1 x 5-BNC1 x VGA1 x XPort11 x XPort2

**Product specifications****FL33 series**

<b>Video Input</b>	1 x HDMI 1.3a1 x YPbPr1 x S-video1 x Composite
<b>(E)TSO</b>	1 x RJ-45 TCP/IP2 x 9-pin D-SUB RS2321 x USB2 x 12V programmable trigger (3.5mm mini jack)1 x Wired Remote 3.5mm mini jack
<b>Dimensions</b>	510 x 223 x 376 mm (WxHxD)
<b>Weight</b>	14 kg
<b>Shipping Dimensions</b>	520 x 370 x 780 mm (WxHxD)
<b>Shipping Weight from Factory</b>	20 kg
<b>Power requirements</b>	Certified rating: 8.4A, ~100-240V, 50-60HzTypical consumption: Max 325W@100V, ~2.7A, 50Hz;~1.2A, 240V, 50Hz
<b>Conformances</b>	CE, FCC Class A and cCSAus
<b>Operating temperature</b>	10 - 40 °C
<b>Storage temperature</b>	-20 - 60 °C
<b>Operating humidity</b>	20 - 80% RH
<b>Storage humidity</b>	10 - 90% RH
<b>Color</b>	Black metallic
<b>Warranty</b>	Limited 3 years parts and labour.Up to 5 years total extended warranty available.Conditions apply.
<b>24-7 documentation</b>	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.
<b>MTBF</b>	59,542 hours
<b>BTU per hour</b>	

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