

FL32 series

Solid state LED DLP® projector



The FL32 series features solid state ReaLED technology for uncompromised performance offering a lifetime of no less than 100,000 hours for low total cost of ownership. Designed for mission critical applications such as 24/7 process control monitoring, and visualization and simulation, it is a high-performance projector.

ReaLED™ for low total cost of ownership

The ReaLED technology combines powerful LED lights - one per Red, Green, and Blue color - with our unique, patented optical design. ReaLED has a stable performance over its lifetime with consistent light output and accurate colors. Thanks to this unique technology, the FL32 does not require periodic lamp replacements and consumes minimal power.

Enhanced image quality

When paired with single-chip DLP technology, ReaLED replaces the rotating color wheel, and increases the active color cycle with 24x per frame of content. In this way, it eliminates sequential color and processing artefacts and reduces color smear and blur for fast-moving images. Using three independent LED sources, the FL32's colors are razor-sharp. Primary colors are extremely precise, and LED technology provides a much larger, and more accurate color gamut than any other lighting technology. What's more, the FL32 features RealColor, making it possible to match any number of projectors, and ensure they all project the same primaries and grey scale.

Optical color processing and calibration

All color processing on the FL32 series is performed optically, and not electronically. That means that the actual light source is altered, and not the electronic source signal. Every FL32 projector features a number of pre-set optical color profiles, that offer accurate colors to any optical standard, for instance REC709 or SMPTE, without losing bit depth.

Precise projection lenses

The FL32 series share its lens range of six different HD resolution projection lenses with the F32 series projectors. These high-quality lenses have a proven track record in resolution, performance to provide stunning image performance.

Deep black levels and dynamic contrast

One of the unique features of the FL32 is the deep black levels the projector offers compared to standard lamp-based projectors. This is ideal for night-scene simulation, starfields, planetariums, and other types of content that rely on contrasting elements from a velvety black background. What's more, the FL32 series can be configured and set up to dynamically adjusted levels to fit the histogram of the input, for an even higher contrast.

Easy installation

The FL32 series can be installed in any orientation without affecting output or brightness. The FL32 series can also be installed in portrait mode for that increased vertical resolution without special attention to the angle of projection. Because it does not use lamps that need to warm up and cool down, the FL32 series can be switched on and off in a matter of seconds.

Security and network manageable

Fully networkable, the vital projector settings and features can be controlled via the built-in web page, for remote asset management. The optional ProNet.Manager software can be used to manage, monitor, and control an unlimited number of projectors in a single site or across multiple sites. The ProNet.Installer version also handles color management, matching and performance over time.

Product specifications**FL32 SERIES**

General specifications	
Concept	0.95" / 0.98" DMD™ with RealLED™ technology, all-glass optical design with lens shift
Resolution	1080p (1,920 x 1,080) / WUXGA (1,920 x 1,200)
Brightness	Up to 750 lumens
Contrast	Up to 7,500 : 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 1,920 x 1,200 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	<ul style="list-style-type: none"> ■ Standard projection lens EN11 – throw ratios: 1.60 - 2.32 : 1 (1080p) / 1.60 - 2.32 : 1 (WUXGA) ■ Ultra Wide Angle lens EN 12 – throw ratios: 0.74 : 1 (1080p) / 0.81 : 1 (WUXGA) ■ Wide Angle Zoom lens EN13 – throw ratios: 1.24 - 1.60 : 1 (1080p) / 1.24 - 1.60 : 1 (WUXGA) ■ Short Tele Zoom lens EN14 – throw ratios: 2.37 - 3.79 : 1 (1080p) / 2.37 - 3.79 : 1 (WUXGA) ■ Wide Angle lens EN15 – throw ratios: 1.16 : 1 (1080p) / 1.16 : 1 (WUXGA) ■ Long Tele Zoom lens EN16 – throw ratios: 3.80 - 6.50 : 1 (1080p) / 3.80 - 6.50 : 1 (WUXGA) ■ Wide Angle lens EN33 – throw ratios: 0.92 : 1 (1080p) / 0.92 : 1 (WUXGA) ■ Hemispherical lens HR95 – field of view: 1,920 x 1,080: 195° x 172° (1,126 pixels) / 1,920 x 1,200: 195° x 195° (1,126 pixels) / 1,400 x 1,050: 195° x 195° (889 pixels) / 2,560 x 1,600: 195° x 179° (1,609 pixels)
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
Control possibilities	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 cCSAus
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	less than 1,100

Last updated: 15 Mar 2023

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