

## professional projector series

The projectiondesign professional series of projectors include high resolution, high performance products made and conceived especially for graphically challenging applications such as scientific visualisation, motion platform simulation, medical imaging, and public displays.

As our utmost concern is image quality and operational reliability, all professional series projectors are available with 24/7 operation warranties, and a wide range of configuration options to ensure the best possible application fit and customer satisfaction.

# preliminary FL32 series

The FL32 is the first completely customisable professional front projector based on LED lighting technology. projectiondesign's ReaLED™ technology provides unmatched predictability. With an incredible 100,000 hours uninterrupted light output\*, extremely low power consumption, no required recalibration or adjustments, and no lamp changes – it is the ultimate in reliability, and Total Cost of Ownership

#### What is ReaLED™

LED (Light Emitting Diode) lighting technology is nothing new and exciting, having been around for many years, in all sorts of electronics and appliances. The main reason for this is its unique combination of reliability, low power consumption, and application adaptability. ReaLED is projectiondesign's implementation of high power LED lights; one per Red, Green, and Blue colour, and paired with our unique, patented optical design. This combination results in a large range of features that benefits the user in every possible way.

#### Predictable Total Cost of Ownership

Mission critical installations and applications are everywhere. From process control and infrastructure and utilities monitoring, through safety and defence applications, projectors are expected to run 24/7 year after year. The FL32 series can do this. Unlike traditional discharge lamp based projectors, the FL32 does not require any periodical lamp replacements, and only very low frequency maintenance. Additionally, with its low power consumption\*\*, operating and owning costs become extremely low, and totally predictable.

#### Real benefits from ReaLED technology

ReaLED technology addresses numerous performance aspects with traditional lamp based systems. Lamps change performance characteristics as they go through

their usable lamp life by changing colour temperature, reducing their light output, and becoming more likely to experience premature shut off. ReaLED counteracts all this. It stays completely stable over its entire life time. It does not drop significantly in light output. Colours stay consistent. And, importantly, it is very unlikely to experience any premature shut down, and if it does, it will not damage itself, or any other part of the projector.

#### Greatly enhanced image quality

Using ReaLED technology improves on image quality in many ways. Paired with single chip DLP® technology – sequential in nature – LED increases the active colour cycle to 24 times per frame, or even up to 48 times per frame. There is no colour wheel. The result is no more sequential colour artefact, and no disturbing colour level processing artefacts, otherwise known as PWM (Pulse With Modulation) artefacting, reducing colour smear, or blur, with fast moving images. But one of the greatest features of LED lighting is its ability to reproduce colour. Using three independent LED source, colours are pin sharp, with the accuracy of a laser system. Primary colours are extremely precise, and LED provides a much larger, and more accurate colour gamut than any other lighting technology – perfect for anyone looking to calibrate to accurate, natural colours.



# projection design® preliminary

HIGH PERFORMANCE PROJECTORS

professional projector series

## Technical specifications

<b>projector</b>	technology	LED based DLP® digital projector single chip DMD™ with RealLED technology
<b>display</b>	concept	all-glass optical design with lens shift
	available resolutions	1920 x 1200, 1920 x 1080
	brightness	about 600 ansi lumens
	contrast ratio	infinite (not measurable) (on/off) > 2000 : 1 system contrast up to 7500 : 1 adjusted
	colours	30-bit colour management accuracy ± 0.002 on x, y, z axis with VizSim colour wheel
<b>input signal compatibility</b>	image processing latency	~ 22 ms on graphics port
	computer	up to 1920 x 1200 pixels RGBHV, RGBS, RGsB
	horizontal scan frequency	15 - 150 kHz
	vertical scan frequency	48 - 190 Hz
	video	HDTV (1080i, 720p, 576i/p, 480i/p) NTSC 3.58/4.43, PAL, BGHI, M, N, SECAM
<b>optics</b>	available lenses	0.79 : 1 ultra wide angle
		1.16 : 1 wide angle
		1.24 - 1.60 : 1 wide angle zoom
		1.60 - 2.32 : 1 standard zoom
	2.37 - 3.79 : 1 short tele zoom	
focusing distance	3.80 - 6.50 : 1 long tele zoom	
	0.5 - 40m (see separate lens specifications)	
optical lens shift	vertical/horizontal	
illumination	RealLED™ technology	
	lamp life (typical expected)	>100,000 hours
	colour cycles / frame	up to 24x (to be confirmed)

<b>connectivity</b>	computer	1x HDMI (1.3)
		1x DVI-D
		1x 15-pin DSUB
		1x BNC x5
		1x RCA x3 YUV
	video	1x HDMI (v1.3) (HDCP)
		1x DVI-D (HDCP)
		1x RCA x3 YUV
	control and communication	1x RCA x3 YUV
		1x 4-pin mini DIN Y/C
1x RCA composite video		
1x RJ45 TCP/IP network port		
2x RS232 9-pin DSUB (in / out)		
other	1x USB – mouse control & firmware upgrade	
	2x 12V (60mA) triggers (screen drop / aspect)	
	1x RC repeater, 3.5mm mini jack	
	2x configurable XPort™ (front- / back end)	
<b>supplied accessories</b>	cables	4m power cord (country dependant)
	other	backlit IR remote control, ceiling mount cable cover
<b>general</b>	product documentation	
	dimensions (dwh)	376 x 510 x 223 mm (ex. lens)
	weight	about 12.6 kg (ex. lens)
	environmental	RoHS, WEEE
	security	4-digit PIN code, Kensington lock
	power requirements	100 – 240 VAC, 50/60 Hz, +/- 10% <1050W power consumption
	BTU/hr	<2900
	conformances	CE, CSA "C/US", FCC Class A, CCC
	operating temperature	0 – 40°C / 32 – 104°F; 0 – 1500 m
		0 – 35°C / 32 – 95°F; 1500 – 3000 m
operating and storage	20 – 90% RH	
available colours	black metallic, silver metallic	
warranties	2 years, 24/7, 500 hours or 90 days on lamp Up to 5 years total extended warranty available. Conditions apply.	



## Available versions

resolution	1920 x 1200	1920 x 1080
part number	101-1452-08	101-1451-08
Available colour: black metallic.		

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