projectiondesign®
HIGH PERFORMANCE PROJECTORS

updated!

professional projector series

F30

- SXGA+ resolution
- up to 6500 ANSI lumens
- BrilliantColor™ technology
- Failsafe DuArch™ technology

DLP TEXAS INSTRUMENTS

ProNet COMPATIBLE

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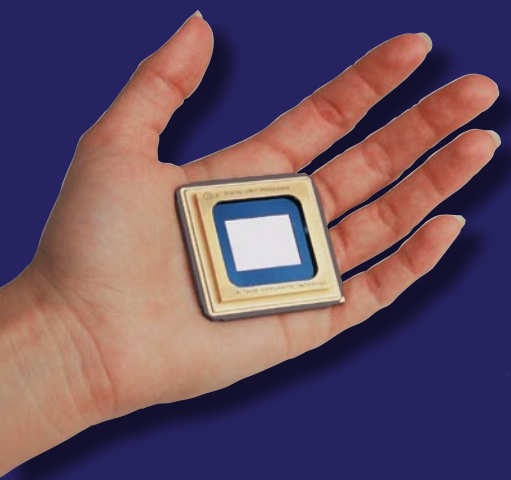
F30 professional grade DLP™ projector series

The F30 professional grade DLP™ projector series is our top-of-the line single chip DLP™ (Digital Light Processing™) projectors. With a wide and powerful range of configuration options such as projection lenses, application specific colour wheels, our unique RealColor colour management suite, and input- and image processing options, the F30 series has been designed for realistic, challenging high end imaging applications. Featuring full 10 bit per colour resolution, and high end video processoing, it is the world's most powerful single chip DLP™ projector series.



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High performance projectors

The projectiondesign F30 has been designed to perform in a variety of environments and applications. projectiondesign has long and extensive experience in designing projectors for special requirements, and our products are used in applications as diverse as ship and car simulators, 2D and 3D visualisation and entertainment centres, as well as installations for medical imaging, post production and broadcast monitoring, and control rooms and public dynamic signage. Common to all is that requirements are stringent, and image quality demands are high.

DLP™ technology – chosen for reliability

The F30 features DLP™ technology from Texas Instruments®. It has been chosen for its unique combination of image quality – high brightness and contrast, and natural colours – and most importantly, its unmatched reliability. Independent testing has proven DLP™ technology to be the most reliable of all microdisplays; not degrading when subjected to UV light, inherent in all projectors. Unlike competing technologies, showing severe image quality degradation after only a few thousand hours, DLP™ technology remains constant over hundreds of thousands of hours.

RealColor realises seamless matching

REALCOLOR

Each F30 projector is uniquely characterised and calibrated during its manufacture. Unique optical performance values are recorded and matched to the electronics processing in order to secure perfect on-site calibration. With RealColor, it is possible to match any number of projectors, and ensure they all project the same primaries and grey scale, without going through a very complicated process.

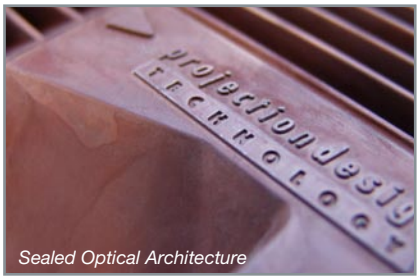
BrilliantColor™ changes what you see

BrilliantColor™ is revolutionary in the way colours are processed and displayed. While increasing brightness over competing technologies, BrilliantColor™ dramatically increases colour saturation and visible gamut, and really needs to be seen. With strong saturation in yellows, cyans and magentas, colours commonly found in natural

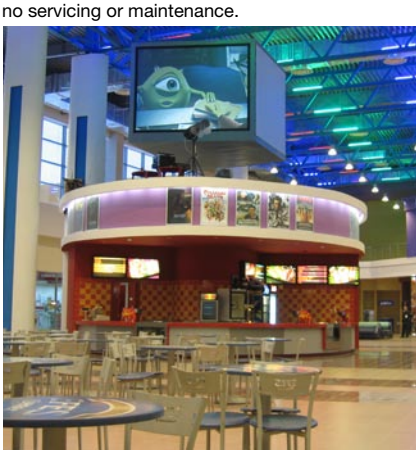
scenes, and very little contamination between them, image quality is dramatically increased over any other technology.

SOA – Sealed Optical Architecture

The F30's sealed optical architecture ensures trouble-free operation in unforgiving and harsh environments, such as process control environments and public places. Dust, smoke



and tiny particles are prevented from entering and contaminating the light engine, thus will not alter the displayed image or quality over time. In addition, it ensures the projector requires virtually no servicing or maintenance.



High brightness – and configurable

Featuring up to 6500 ANSI lumens, the F30 packs enough brightness for most installations. With several configuration options, including three different BrilliantColor™ colour wheel

Range of colour wheels options

complements, it can be set to display any brightness desired, and for instance optimised for visualisation & simulation, or general graphics display. The different configurations also allow optimization for long life rather than high brightness. The configuraton options allow easy and seamless integration into applications as different as process control, and large screen auditoriums.

Precision projection lens optics

To ensure high quality imaging, the F30 series feature very high quality optics, with high resolution, but low dispersion and distortion. Aspherical lens elements are used throughout the range. A wide range of lenses cover almost all throw ratios from ultra wide 0.84 : 1, all through to 7.1 : 1, for superb flexibility.

24/7 operation guaranteed

All our professional projectors are offered with a limited 24/7 operation guarantee. Applicable to process control rooms and heavy duty applications where reliability is key, this is where projectiondesign makes a difference.

Multiple available product configurations

The F30 is available with a range of different colour wheels, each suited to different applications. The options tailor the F30 to specific properties, for instance photographic colour reproduction, high brightness, video performance, or maximised contrast.

Built-in digital equalizing circuitry

DVI and HDMI interfaces are normally used only for short runs. With our new digital re-clocking and digital equalizing circuitry, the F30 can use cables as long as 30m (100ft)[1] without special management, such as using optical cables.

Comprehensive asset management

Comprehensive asset management and precise control is available through the built-in network connectivity and through RS232 control. The network interface provides an easy-to-use interface to controlling all projector properties, specially designed for multiple projector installations. All status parameters are available, including incredibly comprehensive lamp monitoring.

1 Requires 24 avg copper cable for guaranteed functionality.

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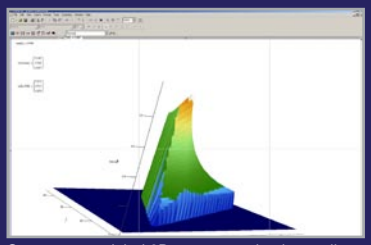
Key features

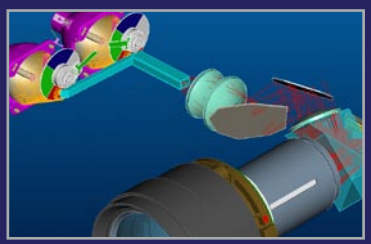
A wide range of lenses, from ultra wide 0.84 : 1 to 7.1 : 1 gives unique flexibility in installations and placement of product.

The comprehensible connectivity features dual digital and analogue inputs, as well as IP and RS232 control options.

Unique UniBoard™ video processing with Pixelworks dnx™ video processing, and fetures dual DMD™ drivers for optimum performance.



Computer modeled 3D gamma and colour calibration tools ensure proprietary RealColor colour management displays true colours.



Patented DuArch™ Dual Architechture optics create the highest performance single chip DLP™ projector avaialable.

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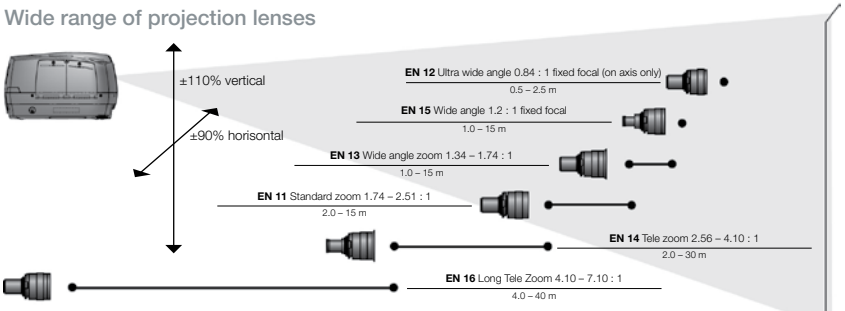
technical specifications		F30	
projector		high performance SXGA+	
		DLP™ digital projector	
display	technology	single chip LVDS DMD™ with DarkChip3™	
	concept	sealed, all-glass optical design with lens shift	
	resolution	1400 x 1050 native	
		up to 6500 ANSI lumens	
		colour wheel dependant	
	contrast ratio	up to 7500 : 1 (on/off)	
	colours	30 bit colours (>1 bn simultaneously displayable)	
	image processing latency	~ 1 input frame on graphics port	
input signal compatibility	computer	UXGA, SXGA+, SXGA, XGA, SVGA, VGA	
		1920 x 1080 - 640 x 480 pixel resolution	
		RGBHV, RGBS, RGsB	
	horizontal scan frequency	15 - 150 kHz	
	vertical scan frequency	48 - 190 Hz	
	video	HDTV (1080i, 720p, 576i/p, 480i/p)	
		NTSC 3.56/4.43, PAL BGHI, M, N, SECAM	
	bandwidth	205 MHz analog RGB	
		225 MHz digital RGB (DVI or HDMI)	
optics	ultra wide angle lens	0.84 : 1	EN12 (503-0057-00)
	wide angle lens	1.25 : 1	EN15 (503-0060-00)
	wide angle zoom lens	1.34 - 1.74 : 1	EN13 (503-0058-00)
	standard zoom lens	1.74 - 2.51 : 1	EN11 (503-0056-00)
	short tele zoom lens	2.56 - 4.10 : 1	EN14 (503-0059-00)
	long tele zoom lens	4.10 - 7.10 : 1	EN16 (503-0061-00)
	focusing distance	0.5 - 40m (see separate lens specifications)	
	optical lens shift	vertical: ± 110%, horisontal: ± 90%	
		EN12 on axis only	
	lens iris control	F/2.1 – 6.5 for all lenses, continuous	
	shutter	mechanical	
	colour wheel options	RGBCMY – visualization & simulation	
		RGBCYW – graphics display	
		RGBCYW – high brightness display	
	available lamp complements	2x 300W UHP™, 2000 hrs (5000 hrs in eco mode)	
		failsafe DuArch™ Dual Architechture	

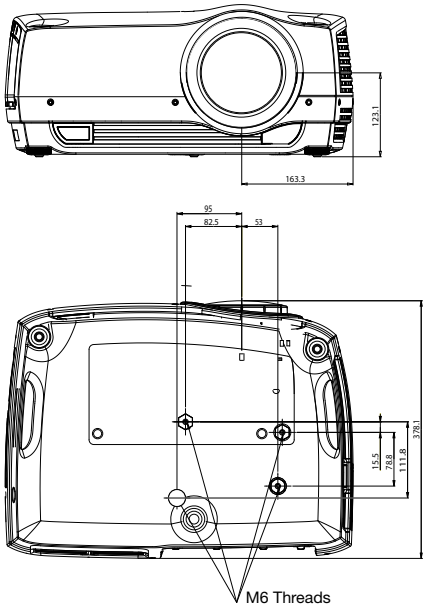
connectivity	computer	1x HDMI (v1.3) dgital RGB
		1x DVI-D digital RGB
		1x 15-pin HDDSUB analogue RGB
		1x BNC x5 analogue RGB / YUV
		1x 15-pin HDDSUB analogue RGB buffered redrive
	video	1x HDMI (v1.3) (HDCP) digital RGB or YUV
		1x DVI-D digital RGB (HDCP compatible)
		3x RCA component YUV
		1x 4-pin mini DIN S-video Y/C
		1x RCA composite video
	control and communication	1x RJ45 TCP/IP network port
		2x RS232 9-pin DSUB (in / out)
		1x USB – mouse control & firmware upgrade
		2x 12V (60mA) triggers (screen drop / aspect)
		1x RC repeater, 3.5mm mini jack
	other	2x configurable XPort™ (front- / back end)
supplied accessories	cables	standard cable kit
		4m power cord (country dependant)
	other	backlit IR remote control, ceiling mount cable cover
		product documentation
general	operating noise level (typ)	30 dB (A) at 20°C sea level
	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
	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, 500 hours or 90 days on lamp
		optional 3-year warranty, conditions apply

Wide range of projection lenses



Multiple lens options and very wide lens shift adjustment ranges allow for flexibility in installations.

Standardised bolt-on ceiling mount interface



Available versions

colour wheel	
visualization/simulation	101-1400-xx
graphics display	101-1402-xx
high brightness	101-1401-xx

Available colours: black metallic -08 (standard), silver -14 (option)
Lenses sold separately, see above.

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