

professional projector series

F30

SXGA+ resolution

up to 6500 ANSI lumens

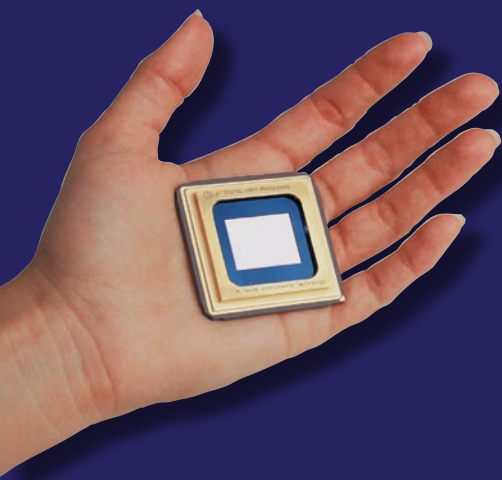
BrilliantColor™ technology

Failsafe DuArch™ technology



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 processing, it is the world's most powerful single chip DLP™ projector series.



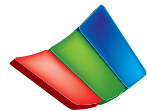
High performance projectors

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

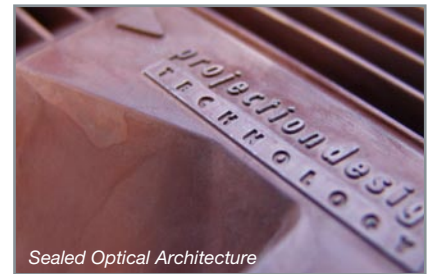
BrilliantColor™ is revolutionary in the way colours are processed and displayed. While increasing brightness over competing technologies, BrilliantColor™ dramatically increases colour saturation and visible gamut, and really needs to be seen. With strong saturation in yellows, cyans and magentas, colours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



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 configuration 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.

Key features



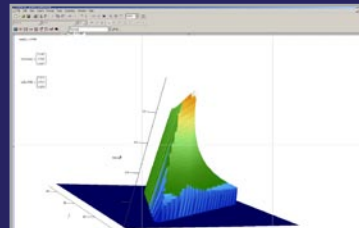
A wide range of lenses, from ultra wide 0.84 : 1 to 7.1 : 1 gives unique flexibility in installations and placement of product.



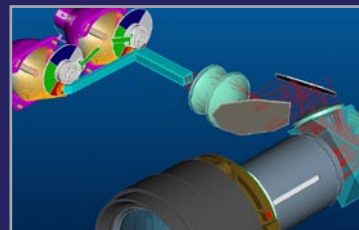
The comprehensible connectivity features dual digital and analogue inputs, as well as IP and RS232 control options.



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.



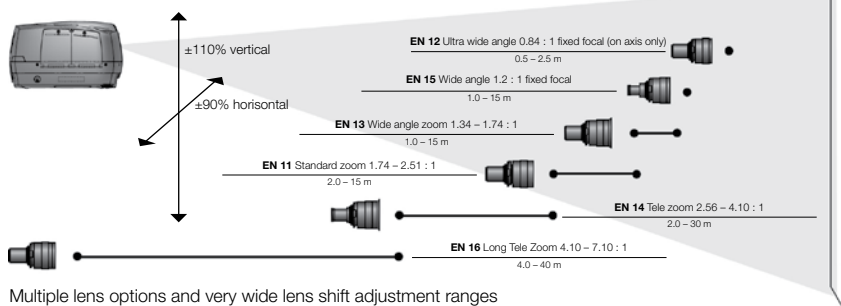
Patented DuArch™ Dual Architecture optics create the highest performance single chip DLP™ projector available.

Actual installation,
courtesy of Vizrt
Actual installation,
courtesy of Russian
projection
company



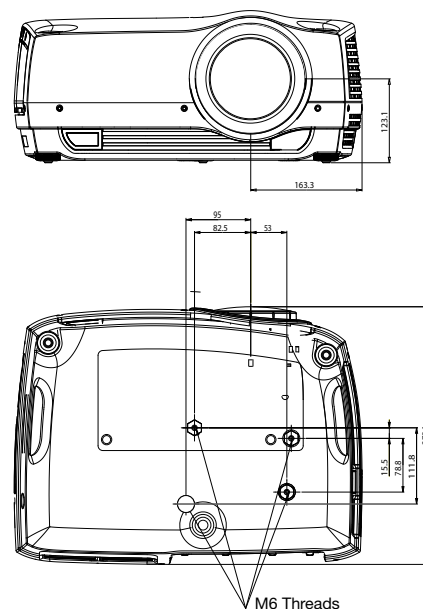
technical specifications		F30		
projector		high performance SXGA+	connectivity	computer
display	technology	DLP™ digital projector		1x HDMI (v1.3) digital RGB
	concept	sealed, all-glass optical design with lens shift		1x DVI-D digital RGB
	resolution	1400 x 1050 native		1x 15-pin HDDSUB analogue RGB
		up to 6500 ANSI lumens		1x BNC x5 analogue RGB / YUV
	contrast ratio	colour wheel dependant		1x 15-pin HDDSUB analogue RGB buffered redrive
	colours	up to 7500 : 1 (on/off)		1x HDMI (v1.3) (HDCP) digital RGB or YUV
	image processing latency	30 bit colours (>1 bn simultaneously displayable)		1x DVI-D digital RGB (HDCP compatible)
input signal compatibility	computer	~ 1 input frame on graphics port		3x RCA component YUV
		UXGA, SXGA+, SXGA, XGA, SVGA, VGA		1x 4-pin mini DIN S-video Y/C
		1920 x 1080 - 640 x 480 pixel resolution		1x RCA composite video
		RGBHV, RGBS, RGsB		control and communication
	horizontal scan frequency	15 - 150 kHz		1x RJ45 TCP/IP network port
	vertical scan frequency	48 - 190 Hz		2x RS232 9-pin DSUB (in / out)
	video	HDTV (1080i, 720p, 576i/p, 480i/p)		1x USB - mouse control & firmware upgrade
		NTSC 3.56/4.43, PAL BGHI, M, N, SECAM		2x 12V (60mA) triggers (screen drop / aspect)
	bandwidth	205 MHz analog RGB		1x RC repeater, 3.5mm mini jack
		225 MHz digital RGB (DVI or HDMI)		other
optics	ultra wide angle lens	0.84 : 1 EN12 (503-0057-00)	supplied accessories	cables
	wide angle lens	1.25 : 1 EN15 (503-0060-00)		standard cable kit
	wide angle zoom lens	1.34 - 1.74 : 1 EN13 (503-0058-00)		4m power cord (country dependant)
	standard zoom lens	1.74 - 2.51 : 1 EN11 (503-0056-00)		other
	short tele zoom lens	2.56 - 4.10 : 1 EN14 (503-0059-00)		backlit IR remote control, ceiling mount cable cover
	long tele zoom lens	4.10 - 7.10 : 1 EN16 (503-0061-00)		product documentation
	focusing distance	0.5 - 40m (see separate lens specifications)		operating noise level (typ)
	optical lens shift	vertical: ± 110%, horizontal: ± 90%	general	dimensions (dwh)
		EN12 on axis only		weight
	lens iris control	F/2.1 - 6.5 for all lenses, continuous		environmental
	shutter	mechanical		security
	colour wheel options	RGBCMY - visualization & simulation		power requirements
		RGBCYW - graphics display		<1050W power consumption
		RGBCYW - high brightness display		conformances
	available lamp complements	2x 300W UHP™, 2000 hrs (5000 hrs in eco mode)		operating temperature
				0 - 40°C / 32 - 104°F, 0 - 1500 m
				0 - 35°C / 32 - 95°F, 1500 - 3000 m
				operating and storage
				available colours
				black metallic, silver metallic
				warranties
				2 years, 500 hours or 90 days on lamp
				optional 3-year warranty, conditions apply
		failsafe DuArch™ Dual Architecture		

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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