



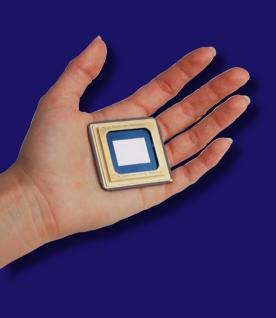




projection design®

F20 sx+ professional grade DLP® projector

The F20 sx+ professional grade DLP® projector has been developed to meet requirements in graphically challenging applications, but at a fraction of the cost of competitors' offerings. Its features include SXGA+ (1400 x 1050)
DLP® technology, full 10 bit analogue and digital connectivity, our revolutionary RealColor colour management suite, Texas Instruments® BrilliantColor™ technology, and three optional lenses. Its small size and ability to fit in a number of applications, combined with it's unique 24/7 guarantee, makes it ideal for a wide range of professional applications.



SXGA+ resolution

The projectiondesign F20 sx+ features SXGA+ resolution at 1400 x 1050 pixels. Offering 87% resolution increase over XGA, and 12% over SXGA, SXGA+ offers brilliantly detailed imaging, detailing images standard projectors can never resolve. In simulators and visualisation systems, as well as for medical imaging purposes, SXGA+ ensures more detailed and natural images than any other resolution.

DLP® technology - chosen for reliability

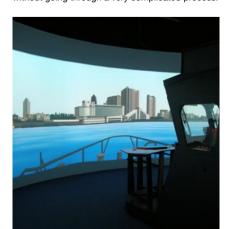
At the core of the F20 sx+ lies DLP® technology from Texas Instruments®. It has been chosen for it's unique combination of image quality – high brightness and contrast, and natural colours – compact system size possibilities, and most importantly, its unmatched reliability. Thorough, independent testing has proven DLP® technology to be the most reliable of all microdisplays. Inorganic by design, it does not degrade 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



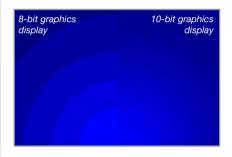
Each F20 sx+ projector is uniquely characterised and calibrated during the last stages of its manufacture. Unique optical performance

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

A new innovation from Texas Instruments®,
BrilliantColor™ is revolutionary in the way colours
are processed and displayed. While increasing
brightness over competing technologies,
BrilliantColor™ dramatically increases colour
saturation and 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
colours, image quality is dramatically increased
over any other technology.

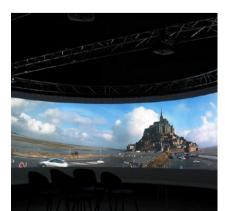


30-bit colour resolution

The F20 sx+ features full 10-bit per colour signal processing and resoluton on all digital and analogue inputs, and displays smoothly rendered transitions and gradients. Unlike traditional 8-bit displays, where the image often is stepped or graded, the F20 sx+ diplays an image with less artefacts, and more accurately.

Precision projection lens optics

Designed entirely with High Quality low dispersion glass, four projection lenses are available; both a standard and long throw zoom, a wide angle, and an ultra wide angle lens with optical pincushion/barrel adjustemt, designed for rear projection applications. Both wide angle lenses feature as low as <0.5 pixels optical distortion.





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.

Simple service - simple lamp replacement

Replacing the lamp is done directly from the front of the projector, and unlike most competitors, the F20 sx+ does not need to be unmounted when replacing it. The front panel comes off, so mechanical and optical adjustments are left intact This is particularly important in installations where accuracy in installation is key.



Small size and light weight

The F20 sx+ has been designed to be as small and light as possible. With low unsprung weight, it fits into motion platform simulators without having to take special notice of mounting hardware to cope with high forces during operation. Its light

component weight ensures there is little stress internally, and this further enhances the F20 sx+'s mode of operation.

Security and network manageable

Fully networkable, most projector settings and features can be set through the built-in web page, thus allowing remote asset management. Like with the IP interface, the projector itself features a PIN (Personal Identification Number) lock, so that unauthorised users cannot take advantage of it, thus preventing theft.

Fully customisable

Like with all our professional projectors, we offer a range of customisation options – different colour wheels specially designed for various applications, such as graphics visualisation and simulation, presentation, medical imaging, and public display purposes, as well as hardware, and software customizations.

Built-in Real Time Clock and timer

The built-in real time clock and timer enables the F20 sx+ to be programmed to perform any desired operation at any one time. Examples include automatic switching on and off or switching between various sources at set intervals. Up to 10 different programmes can be stored individually.

tual installation, nited Kingdom, coursy of Anticyp tual installation, ance, courtesy of tegrale360



Key features



The ultra wide angle 0.82 : 1 rear projection lens features built-in optical pincushion/barrel adjustment, as well as a mechanical focus lock.



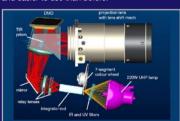
Vertical lens shift makes installations easy, and allows a direct, on-axis rear projection setup with the optional 0.82:1 and 1.0:1 wide angle lenses.



Unique UniBoard™ processing features Pixelworks dnx™ technology and dual DMD™ driver chipset for optimum performance.



A completely redesigned menu system provides multiple language options, and is more intuitive and easier to use than before.



The proprietary folded optical path enables an incredibly small projector that can placed in portrait mode without affecting reliability.

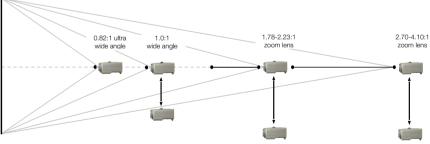
www.projectiondesign.com

projection design®

technical specification	S	F20 sx+			
projector	••••••	SXGA+ DLP® digital projector			
display	technology	single chip LVDS DMD™ with DarkChip3™	connectivity	computer	1x HDMI (v1.3) digital RGB
	concept	sealed, all-glass lens shift optical design			1x DVI-I digital RGB
	resolution	1400 x 1050 pixels			1x 15 pin HDDSUB analogue RGB
	brightness	up to 3300 ANSI lumens		video inputs	1x HDMI (v1.3) (HDCP) digital RGB or YUV
	contrast ratio	up to 2500 : 1 (on/off)			1x DVI-I (HDCP) digital RGB
	aspect ratio	4:3,5:4 and 16:9 compatible			3x RCA component YUV
	displayable colours	30 bit colour resolution (10 bit per colour)			1x 4-pin mini DIN S-video Y/C
	image processing latency	~1 input frame on graphics port			1x RCA composite video
compatibility	computer	UXGA, SXGA+, SXGA, XGA, SVGA, VGA		control and communication	1x RJ45 IP network port
		1920 x 1080 - 640 x 480 pixel resolution			1x RS232 9-pin DSUB
		RGBHV, RGBS, RGsB			1x USB mouse control & firmware upgrade
	horizontal scan frequency	15 - 150 kHz			2x IR receivers (front / back)
	vertical scan frequency	48 - 190 Hz			1x 12V trigger
	video	HDTV (1080i, 720p, 576i/p, 480i/p)			1x RC repater input
		NTSC 3.56/4.43, PAL BGHI, M, N, SECAM	supplied accessories	cables	standard cable connection kit
	bandwidth	205 MHz on analog RGB			4m power cord (country dependant)
		225 MHz on digital RGB over HDMI / DVI		other	backlit IR remote control, lens cap
optics and lamp	zoom lens	1.78 - 2.23 : 1			product documentation
	image size (diagonal)	0.85 - 7.0 m			04 JD (A) = 0000 (000E = = =
	focusing distance	1.5 - 10 m	general	operating noise level (typ)	24 dB (A) at 20°C/ 68°F, sea level
	optical lens shift	0 - 100% (customizable to 110%) 1.00 : 1		dimensions (dwh)	234 x 278 x 94 mm (9.2" x 10.9" x 3.7") 2.980 g / 6.0 lbs
	wide angle lens image size (diagonal)	1.25 - 12.5 m		weight timer	built-in real time clock with ten program options
	focusing distance	1.0 - 10 m			4-digit PIN code, Kensington lock
	optical lens shift	0 - 80% (designed for on-axis projection)		security	100 – 240 VAC, 50/60 Hz, +/- 10%
	ultra wide angle lens	0.82 : 1		power requirements	350W power consumption
	image size (diagonal)	0.875 – 8.75 m		conformances	CE, CSA "C/US", FCC Class A, CCC
	focusing distance	0.7 – 7 m		operating temperature	0 – 40°C / 32 – 104°F, 0 – 1500 m
	optical lens shift	n/a (on axis only)		operating temperature	0 – 40 C / 32 – 104 F, 0 – 1300 III 0 – 35°C / 32 – 95°F, 1500 – 3000 m
		2.70 – 4.24 : 1		aparating conditions	20 – 90% RH
	long throw zoom lens	2.70 - 4.24 . 1		operating conditions available colour	
	image size (diagonal) focusing distance			warranties	black metallic, pearl white, vanquish grey metallic 2 years, 500 hours or 90 days on lamp
	optical lens shift	0 - 100% (customizable to 110%)		warranties	optional 3-year warranty, conditions apply
	colour wheel options	RGBCMY – visualisation and simulation		• • • • • • • • • • • • • • • • • • • •	optional o year warranty, continuous apply
	ocioai wileel options	RGBCYW – graphics display			
		RGBCW – high brightness display			
	lamp	170 – 220W UHP™. continuously adjustable		Standardised	bolt-on ceiling mount interface

Optical lens shift

lamp life



170 – 220W UHP™, continuously adjustable 3000 / 2250 hours (eco / full power)

Four lens options, including a 0.82:1 ultra wide angle, a 1.0:1 standard wide angle, a 1.78-2.23:1 standard zoom lens with, as well as a long throw zoom lens with full lens shift accommodates easy and flexible installation, including direct on-axis rear projection.

Available versions

Projection Lens Colour Wheel	0.82 : 1 (ultra wide angle)	1.0 : 1 (wide angle)	1.78 - 2.23 : 1 (standard zoom)	2.70 - 4.24 : 1 (long throw zoom)
RGBCMY (viz & sim)	101-1206-xx	101-1201-xx	01-1200-xx	101-1248-xx
RGBCYW (graphics)	101-1207-xx	101-1204-xx	101-1202-xx	101-1249-xx
RGBCYW (high brightness)	101-1208-xx	101-1205-xx	101-1203-xx	101-1250-xx
Available colours: black metallic	-08 (standard) vanguish o	rev -07 (ontion) nearl w	hite -05 (option)	























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