MODEL : H9080FD

Display Technology	0.95" 1-Chip DMD
Resolution	1920 x 1080
Brightness	800 Lumens
Contrast Ratio	100,000:1
Zoom & Focus	Manual Zoom & Manual Focus
Lens Throw Ratio	1.85~2.4
Zoom Ratio	1.3:1
Projection Screen Size	22.5" ~ 300"
Remote Control	Fully Featured Illuminated Remote Control
Light Source	PhlatLight PT-120
LED Life	20,000 Hours
Aspect Ratio	Native (16:9)
Pc Compatibility	VGA, SVGA, XGA, SXGA, UXGA, WSXGA, Macintosh
Video Compatibility	NTSC/NTSC 4.43, PAL B/G/M/N SECAM, 480i/480p/720p/1080i/1080p
PC Input Terminals	HDMI (1.3) x 2, Component x 1, BNC x1, VGA x1, S-Video x1, Composite x1
Output Terminals	N/A
Communication Terminals	RS-232Cx1, Screen Trigger x 2, Wired Remote Mini-Jackx1
Lens Shift	Vertical (+/- 120%), Horizontal(+/- 30%)
Fan Noise Level	25dBA
Audio Speaker	N/A
Projection Method	Front, Rear, Table Top and Ceiling Mount
Dimensions (w X H X D)	20.5"x 8.8" x 21.6" (520mm x 224mm x 548mm)
Weight	16.6kg (36lbs)
Power Supply	AC 100-240V
Power Consumption	175W (STD), <1W Standby Power
Accessosory	AC Power cord, HDMI cable, User Manual (CD & Hard Copy), Remote Control, Batteries for Remote
Osd Language	English/French/German/Spanish/Portuguese/Italian /Simplifed Chinese/Traditional Chinese/Russian/Polish/Chile Czech/Sweden/Denmark/Turkish/Hungary

Specification subjects to change without notice.

Environmental Protection
A mission from Vivitek

RoHS COMPLIANT

Vivitek Technology always pays attention to the environmental protection & energy saving. The H9080FD contains following parts that is RoHS compliant:
- Lead-free solder : used for soldering all parts including circuit component electronics
- Lead-free glass : used for the lens
- Recycled paper : used in the user manuals and packing cartons.

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World's First LED Full HD DLP® Projector
H9080FD Home Theater

DLP TEXAS INSTRUMENTS PICTURE BY

BrilliantColor With Multi-Color Process For Rich, Vibrant Color DLP

PhlatLight photonic lattice

FULL HD 1080P

FREE

Best Energy Saving < 1W standby power consumption*

H9080HD

World's First Full HD LED Home Theater DLP® Projector

Vivitek has lunched a groundbreaking high brightness (800 ANSI LUMEN) full HD LED projector for the consumer market. With its high throughput LED optics, 1080P resolution plus wide color gamut, H9080FD 1080P LED projector provides a stunning high image quality unmatched by any other lamp projector. H9080FD gives the viewer a completely new home theater experience with the bonus that the user is free from lamp replacement, as the life of the LED module is estimated at over 20,000 hours of normal operation.

The benefits of having an LED projector over a lamp projector is the fact that no more replacing an expensive projector bulb every time you turn around. The LED illumination system replaces the lamp, the color wheel and the shutter of a traditional projector, increased stunning picture quality, expanded color gamut, maintaining 1080p resolution, reliability and value.

Thanks to the advanced thermal management system been adopted that makes the projector quiet and efficient on power consumption (175w for movie display). Vivitek is proud to state that the systematic operation of Luminus PhlatLight device, Osram REPCUR driver and TI DSP firmware make it possible with wide color gamut, more than 200 trillion colors and over 100,000:1 contrast ratio.

Regained your Visual Consciousness

• Instant shut down • Instant turn-on • Generate low heat • Color wheel free • Wide color gamut for vivid colors • Lamp-free • Mercury Free • Filter free for low cost of ownership

Filter Free
Say NO to the anti-dust filter

FREE

DLP based projector has the congenital superiority in against dust aspect. Vivitek LED Projector has sealed pure metal optics engine, which keeps filter free, and more durable in comparison with plastic components

Amazing 100,000:1 high contrast ratio

The H9080FD allows the end user to control some of the most advanced features on this LED projector offers. This includes Texas Instruments' Dynamic Iris and Brilliant Color features.
The Dynamic Iris enable the contrast ratio to 100,000:1, and gives H9080FD one of the "darkest" projector in the market.

Instant on & off
No more waiting

Instant hot re-start means the user, as compare to lamp projector, don't need to wait for minutes to cool the lamp before re-start the projector.

Dynamic Iris

Dynamic Iris adjusts automatically the black levels of video content and produces rich blacks on dark scenes.

With Dynamic Iris   Without Dynamic Iris

1.3 x Zoom & Unique Red Zoom Ring Design

The H9080FD is much more than a Projector: it answers the needs of consumers who crave for more, combining a more luxurious design and practical multimedia technology. The stylish red zoom ring design concept aims to become a consistent mark for Vivitek quality and design in Home Cinema Projector category, while the superior center mounted 1.3x zoom lens produces crystal clear vivid images and able to do lens shift at Vertical (+/- 120%), Horizontal(+/- 30%)

Excellent Video Processing Chipset by Gennum

The H9080FD's latest Gennum 9450 video processing has been configured to allow the user to manually change the projected frame rate. Moreover, the H9080FD allows for Auto, which selects the refresh rate based on the incoming video signal, 48-Hz, 50-Hz, and 60-Hz, increasing smooth video performance. The video processing also does an excellent job of de-interlacing and scaling both standard- and high-definition sources with full support for film and video-based content for HD sources.

Sealed Light Engine

The light path is completely sealed and eliminates the fear of dust getting into the optical path or light leakage from the chassis. Most projectors have some type of light spill either around the lens or from the vents. However, thanks to sealed light engine that keeps the H9080FD away from light spill around the active image.

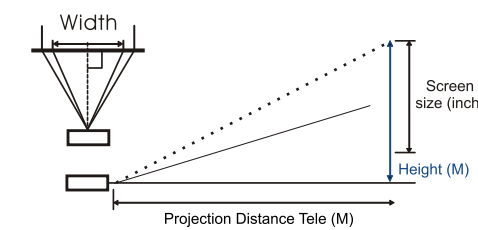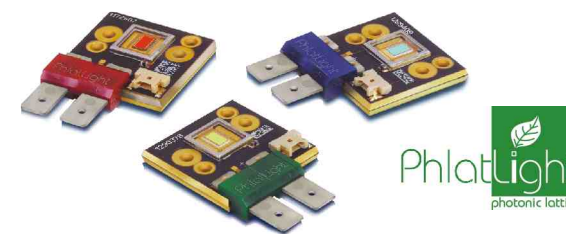## Rich Connectivity
additional HDMI

The H9080FD features nice array of connections, including two HDMI 1.3 inputs, RS-232 input for updates and remote triggers for communications and automated screens. The H9080FD is a fully updateable projector on the software end, allowing consumers to update firmware from a PC via the RS-232 input.

Comprehensive Remote Control

The H9080FD features an easy button layout with most of the important features directly accessible. The remote lights up at the touch of a button and uses red backlighting for legibility in the dark. Most of the main video settings are directly accessible, including sharpness controls, picture controls, gamma setting, image size, and user-defined memories.

Projection Size & Distance

Screen Size			Projection Distance	
Diagonal(Inch)	Width: Inch/mm	Height: Inch/mm	Min. Inch/mm	Max.Inch/mm
60	52.29/1328	29.41/747	96.74/2457	125.50/3188
80	69.72/1771	39.22/996	128.99/3276	167.34/4250
100	87.16/2214	49.02/1245	161.24/4095	209.17/5313
120	104.59/2656	58.83/1494	193.49/4915	251.01/6376
150	130.73/3321	73.54/1868	241.86/6143	313.76/7969

The above numbers are approximate, and may be slightly different from the acutal measurements

Width
Screen size (inch)
Height (M)
Projection Distance Tele (M)

RGB LED: Breakthrough Technology

Lamp-free

Best Energy Saving
< 1w standby power consumption

● Hi-efficiency power switching: reduces power consumption.
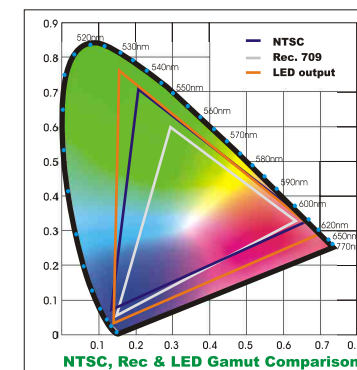● Less than 1w power consumption in standby mode

Luminus developed PhlatLight devices to enable the solid state lighting for projection industry. PhlatLight is a breakthrough technology for LED in terms of its high extraction efficiency and light collimation. PT120 PhlatLight device is adopted in H9080FD for its perfect optical matching with the 0.95" DMD chip. In addition to the over 20,000 hours life, this device give the benefits of a flat lumen maintenance: 5% decay after 2,000 hours.

Stunning picture quality

Better Color Saturation

The pure and narrow spectrum of the PhlatLight devices create a color gamut 25% wider to NTSC, or 77% wider to Rec. 709.

NTSC
Rec. 709
LED output

NTSC, Rec & LED Gamut Comparison

H9080FD   Other Projector

Projector powered by OSRAM REPCUR driver

Switching 30A on and off in 1 micro second

Thanks to OSRAM REPCUR F9030A driver for its high speed switching of the 30A driving currents to each LED. The switching speed is so fast that it can be analogy to a 20X color wheel, and the color break up issue associated with the traditional DLP projector is no longer exist.

The driver has 8-bit current resolution each channel to give the viewer precise and vivid color images. If it is necessary, the driver can turn off the LED to give totally black images at dark scenes.