

**Optoma**  
World's NO.1 DLP® Projector Expert

**Full HD**  
1080P



Full HD 1080p **Home Theater Projector** HD803-LV

**Tecktronix**  
Audio Visual (India) Pvt. Ltd.

[www.optoma.com](http://www.optoma.com)



# Home Theater Projector

Full HD 1080p

# HD803-LV

## Feast Your Eyes on the Incredible Brightness

Optoma HD803-LV is the uppermost home theater projector based on HD803 but with stunning 2000 lumens, which highlights a perfect niche who demands even larger viewing on the screen. A breakthrough in brightness allows more flexible setting and less sensitive to ambient light; ensuring the maximum entertainment propelled by well-defined details and studio grade HD performance.

### Full HD 1080p technology

The Optoma HD803-LV home theater projector delivers the kind of picture quality associated with the best digital theater performance around the world. With a digital HDMI or DVI signal you can create a true digital projection system that produces a spectacular High Definition cinematic experience in your own home. Thanks to a masterly collaboration of Full HD 1080p, DLP® technology from Texas Instrument and Optoma color and optical technology, the HD803-LV produces a stunning 7,000:1 contrast ratio for unrivalled light and shade detail. An exceptional quality seven-segment, six-speed color wheel provides deep, balanced color. This unprecedented combination ensures natural, real looking images with crystal clarity. The Optoma HD803-LV provides more than twice as much detail as a 720p projector.

### Pure color, unprecedented detail

Commanding over two million individual pixels, luminance and vibrant colors blend fluidly with the Optoma HD803-LV. At the heart of the projector is the latest 1080p DLP® technology. A pure 10-bit signal path and processing architecture combine with an advanced color wheel featuring NDG (Neutral Density Green) technology. NDG increases the visual color resolution, creating a higher quality image that dramatically reduces low-level dithering artefacts. The result is pure images with unprecedented detail, visuals that draw you into the screen.

### Professional cinema standard brightness

2000 video-optimised lumens surrender stunningly brilliant, professional cinema-standard brightness on a screen of up to 3.5m wide (108" diagonal)\*.

### Instant viewing

Advanced image optimisation, extensive connectivity and powerful under-the-hood processing combine with a simple intuitive menu system to ensure that obtaining the best possible image quality is simple.

### PREVIOUS 8-BIT PROCESSING

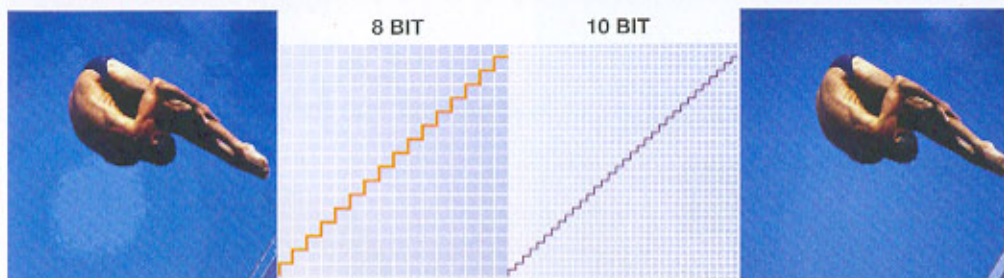


### HD803-LV PURE 10-BIT PROCESSING



\* Calculated with the Society of Motion Picture and Television Engineers recommendations of a minimum image brightness of 16 Foot Lamberts. Data used: 1200 Lumens flat white field, 16:9 screen with a gain of 1.0

## RICH COLOR PROCESSING TECHNOLOGY



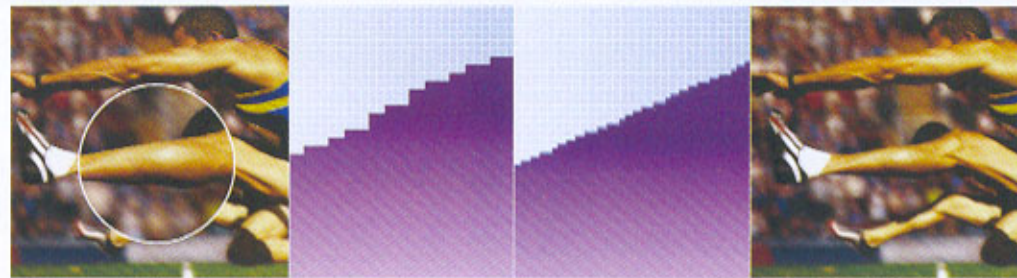
8 bit color processing can result in un-natural looking images

10 bit DNX Rich Color Processing technology increases the number of colors that can be displayed from 16 million to over 1 billion by offering 4 times the color information for each pixel

For natural, rich looking colors



## LAI TECHNOLOGY

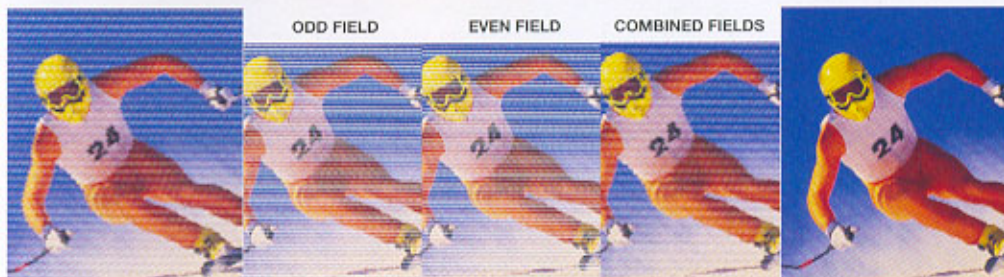


Straight edges at low angles emphasise the pixel matrix and produce "jaggies"

Low angle edges are inherent in all pixelated displays. Primitive algorithms simply "paint" images by crudely placing pixels

DNX LAI technology looks at multiple video lines before applying a mix of anti-aliasing algorithms to optimise angles

## DEINTERLACING



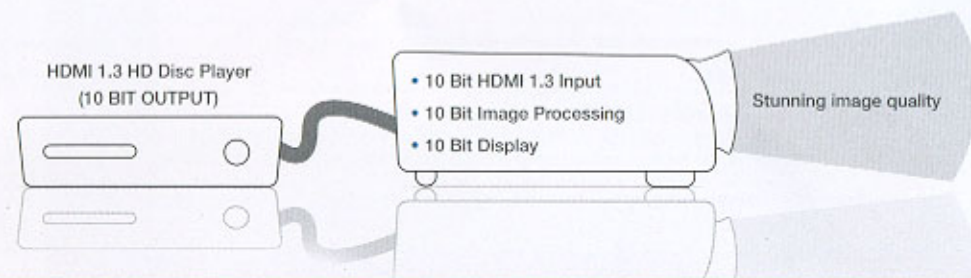
Traditional interlaced video sends the odd/even fields separately for higher resolution with lower bandwidth

Still images and moving images need to be processed differently to avoid combing effect

DNX technology looks ahead several frames, projects the movement of objects, then applies different algorithms to still and moving objects

## TRUE 10 BIT DIGITAL PROJECTION

Currently filmmakers record and process movies at greater color depths than most consumer home theater equipment can reproduce. Movie studios have had to reduce the color depth of their films for home distribution so they are compatible with home theater equipment. The pure 10 bit digital signal path of the HD803-LV paves the way for movie and gaming content to be displayed in a virtually lossless form producing a level of visual acuity and realism never seen before in the home.



## Deep Color™ HDMI 1.3

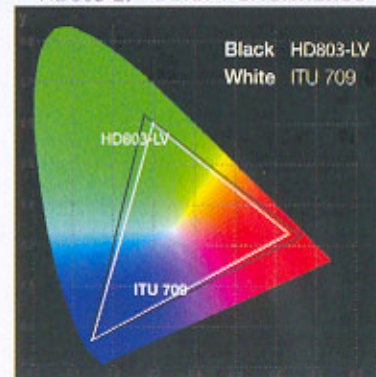
The most advanced 10 bit HDMI technology adds high definition color to high definition images producing stunningly natural, vibrant color.

- HDMI 1.3 supports 30-bit, (10 bits per channel RGB or YCbCr) color depths, up from the old 24-bit depths in previous HDMI inputs - displays billions instead of millions of colors
- Eliminates on-screen color banding, for smooth tonal transitions and subtle gradations between colors
- Increased contrast ratio - offering improved light and shade detail
- Enables better greyscale performance

## CIE color gamut chart

Advanced Optoma color wheel technologies enable the HD803-LV to reproduce a color gamut that exceeds the standard ITU 709 color specifications. The result is brilliant, natural lifelike colors.

### HD803-LV Color Performance



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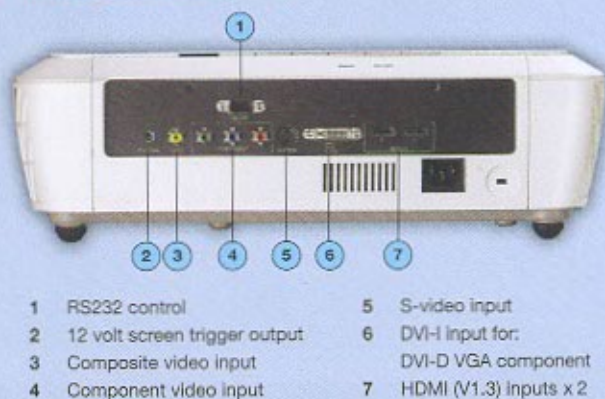
## Specifications

Display Technology	0.95 inch Full HD 1080p DMD from Texas Instruments
Brightness (Bright mode)	2000 Lumens
Weight	10.5 pounds (4.7kg)
Native Resolution	1920 x 1080 (native on 1080i/p)
Dimensions (W x D x H)	411 x 311 x 116 mm
Contrast Ratio	7000:1 (max.)
Lamp Type	300-watt User Replaceable Lamp
Estimated Lamp Life	3000 hours in normal mode / 2000 hours in bright mode
Image Size (inch)	30.5 to 305 inches
Projection Distance	1.5 ~ 12.5m
Image shift	Up/Down, Left/Right digital image shift (L/R only support in 4:3 & Native format)
Video Compatibility	HDTV (480p, 576p, 720p, 1080i/p), 480i, 576i, Full NTSC, NTSC4.43, PAL, PAL-M, PAL-N, SECAM, HDMI (480i/p, 576p, 720p, 1080i/p, 1080p24) Computer capability up to UXGA (1600 X 1200)
Aspect Ratio	16:9, 4:3, LBX, Native
Projection Lens	f=39.12 ~ 46.94 mm, F/2.6~2.82 ; Mid throw Lens ; 1.2 X manual zoom / focus lens.
Throw ratio	1.85 ~ 2.22:1
Keystone Correction	Vertical $\pm 5^\circ$
Power Supply	Universal AC 100 - 240 volts, 50/ 60Hz
Uniformity	90 %
I / O Connections	HDMI x 2(*), DVI-I (PC/DVI, analog RGB, HDTV, SCART, component) x 1, Component: YCbCr / YPbPr (RCA) x1, S-Video x1, Composite Video x1, +12V Relay output x1, Serial RS-232 for control x1, IR receivers x2 (front and top)

(\*Support HDMI 1.3)

Image size - throw distance			
Image Size (inch)	Projection Distance (Inch)	Image Size (m)	Projection Distance (m)
90	3.7~4.4	4	81.4~97.7
100	4.1~4.9	5	101.7~122.1
120	4.9~5.9	6	122.1~146.5
150	6.1~7.4	7	142.4~170.9

## HD803-LV Projector I/O Ports



## HD803-LV Remote Control



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Toll free : 1800 425 2936

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