





Studio grade image quality

Transforming your living space with images comparable to film screening rooms, the ThemeScene® HD80 is a stylish home cinema projector with state-of-the-art projection technology. Full HD 1080p capabilities propel it into the high-end of innovative image quality, ensuring maximum entertainment.

Full HD 1080p technology

The ThemeScene® HD80 home cinema projector delivers the kind of picture quality associated with the best digital cinema 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 ThemeScene® colour and optical technology, the HD80 produces a stunning 10,000:1 contrast ratio for unrivalled light and shade detail. An exceptional quality seven-segment, six-speed colour wheel provides deep, balanced colour. This unprecedented combination ensures natural, real looking images with crystal clarity. The ThemeScene® HD80 gives more than twice as much detail as a 720p projector.

Pure colour, unprecedented detail

Commanding over two million individual pixels, luminance and vibrant colours blend fluidly with the ThemeScene® HD80. 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 colour wheel featuring NDG (Neutral Density Green) technology. NDG increases the visual colour 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

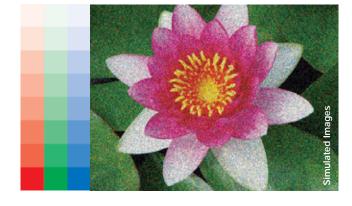
1300 video-optimised lumens surrender stunningly brilliant, professional cinema-standard brightness on a screen of up to 3.5m wide (108" diagonal)*.

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.

* Calculated with the Society of Motion Picture and Television Engineers recommendations of a minimum image brightness of 16 Foot Lamberts. Data used: 1300 Lumens flat white field, 16:9 screen with a gain of 1.0

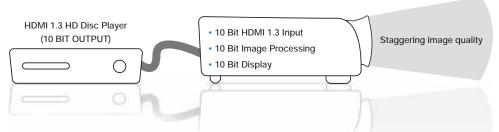
OLD 8 BIT PROCESSING



HD80 PURE 10 BIT PROCESSING



TRUE 10 BIT DIGITAL PROJECTION



Currently filmmakers record and process movies at greater colour depths than most consumer Home Cinema equipment can reproduce. Movie studios have had to reduce the colour depth of their films for home distribution so they are compatible with Home Cinema equipment. The pure 10 bit digital signal path of the HD80 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 latest 10 bit HDMI technology adds high definition colour to high definition images producing stunningly natural, vibrant colour.

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

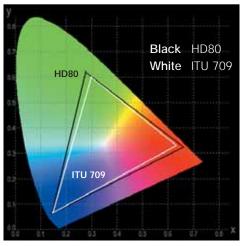
1080P 24 Frames per Second

The HD80 supports the coveted 1080P 24Hz format enabling HD movies to be displayed in their native format

CIE colour gamut chart

Advanced ThemeScene® colour wheel technologies enable the HD80 to reproduce a colour gamut that exceeds the standard ITU 709 colour specifications. The result is brilliant, natural lifelike colours.

HD80 Color Performance



RICH COLOUR PROCESSING TECHNOLOGY



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



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



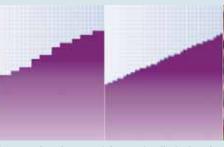
For natural, rich looking colours



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 crudly 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

Technical Specifications

Highlights

Full HD Ready Native 1080P, HDMI & DVI inputs

Display Technology DLP®
Contrast 10,000:1

Audible Noise 27dB Standard mode, 29dB Bright mode

Brightness 1300 Video Optimised Lumens

Connections

Signal Type Options Input Connector

HDMI 3 2 x HDMI (V1.3 Deepcolor) 1x DVI-I with optional adaptor

Component (I\P) 2 1xRCA, 1xDVI-I with optional adaptor

SCART RGB 1 DVI-I via supplied adaptor

S-Video (Y/C) 1 3 Pin Mini DIN

 Composite Video (CVBS)
 1
 RCA

 DVI-D Computer
 1
 DVI-I

 RGB Computer
 1
 DVI-I

RS-232 1 9 Pin D-Sub connector

Screen trigger

Video Compatibility PAL, SECAM (576i/p), NTSC (480i/p), HDTV (1080p, 1080i, 720p)

Display

Aspect Ratio Widescreen 16:9 with support for 4:3
Colour Wheel 6 x speed, 7 Segment (RGBG_{ND}RGB)

ANSI Contrast Ratio 518:1

Throw Ratio 1.85-2.22 (Projection Distance/Image Width) 1.2x Manual zoom

Projection Distance 1.5m – 12.5m

Image Size 16:9 Diagonal 0.76 - 7.62m (30.5-300")

Keystone Correction Vertical

Projection Types Front, Ceiling, Rear, Rear ceiling

Lamp Type 300 watt

Lamp Life Standard mode 3000 hours*

General

Dimensions 411x311x116 (WxDxH)

Weight 4.5kg

Power Consumption 395W W Max, <14W standby Operating Temperature 5-35°C Max, 80% Humidity

Warranty may vary by country. Please see

www.optomaeurope.com or ask your local supplier for details

Lamp Warranty 6 months or 1000 hours whichever is the sooner

Menu Languages English, German, French, Italian, Spanish, Portuguese, Swedish, Dutch,

Norwegian and Danish combined, Polish, Russian, Finnish, Greek

Supplied accessories AC power cord, Component video cable, RS232 cable, SCART

adapter, VGA to DVI adaptor for SCART input, VGA cable for SCART input, Remote control, Batteries for remote, Lens cap,

User's guide

Optional accessories Ceiling Mount Kit, HDMI to DVI adaptor

EAN Number 5060059041923

*Typical lamp life achieved through testing. Will vary according to operational use and environmental conditions





HD80 Projector I/O Ports

- 1 RS232 control
- 2 12 volt screen trigger output
- 3 Composite video Input
- 4 Component video Input
- 5 S-video Input
- 6 DVI-I Input for: SCART RGB DVI-D VGA Component
- 7 2 x HDMI (V1.3) Inputs

HD80 Remote Control

- 8 Brightness
- 9 Contrast
- 10 Image Al
- 11 Image gamma preset selection
- 12 IRIS Control
- 13 Bright Mode
- 14 Image Shift
- 15 Preset image modes selection
- 16 Overscan Control
- 17 Edge Masking Tool
- 18 Display aspect ratio selection
- 19 Input selection

Projection Distance (m)	Horizontal Image Size (m)	Max. Diagonal Image Size (m)	Max. Diagonal Image Size (Inch)	Max. Image Offset (m)
2.00	0.90 - 1.08	1.24	49	0.22
3.00	1.35 - 1.62	1.86	73	0.33
4.00	1.80 - 2.16	2.48	98	0.44
5.00	2.25 - 2.70	3.10	122	0.55
6.00	2.70 - 3.24	3.72	146	0.66
7.00	3.15 - 3.78	4.34	171	0.77
8.00	3.60 - 4.32	4.96	195	0.87











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