

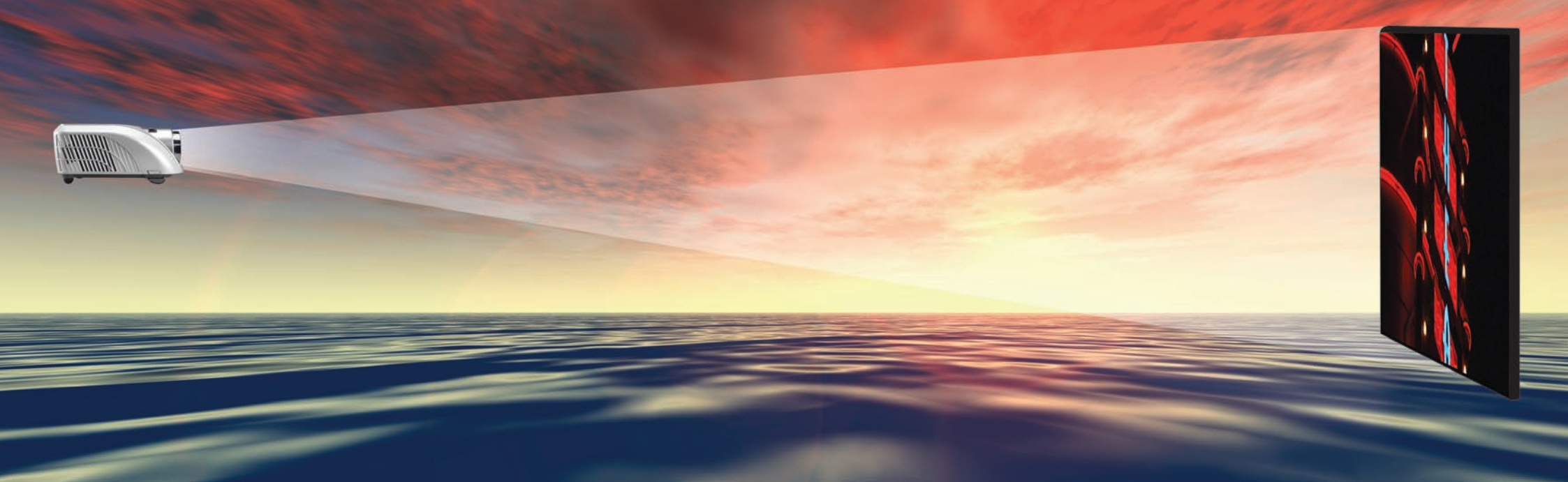
**HD**  
**ready**

Full HD  
1080P



**THEME | SCENE**®

**HD81** 1080p



### **Film Screening Room Quality**

With image quality normally reserved for film screening rooms the ThemeScene® HD81 is the ultimate in High Definition Home Cinema. The innovative two piece design delivers unmatched performance, sleek styling and whisper-quiet operation. The HD81 is the embodiment of exceptional form and function.

### **Ultimate High Definition**

A native resolution of 1080p means over 2 million individual pixels at your command. That's more than twice as much detail as a 720p projector. Exceptional performance requires the exceptional control provided by the Gennum VXP™ studio grade processor. Capable of deinterlacing 1080i from today's highest quality broadcast and disc sources VXP™ processing ensures natural, fluid motion and exceptional image detail

### **Crystal Clarity**

Masterly orchestration of DarkChip3™ technology from Texas Instrument and ThemeScene® Iris technology produces a stunning 10,000:1 contrast ratio. Deep, balanced colour is provided by an exceptional quality 7 segment, 6 speed colour wheel. This unprecedented combination ensures natural, real looking images with crystal clarity

### **Exceptional Connectivity**

Unparalleled flexibility with 14 video inputs including 3 HDMI, 4 Component, and 2 SCART RGB

### **Auto Reactive Iris**

Mimicking the operation of a human eye, the Auto Reactive Iris works to maximise image contrast - ensuring the deepest velvety blacks and brightest whites. The 15 step Iris can also be manually adjusted to suit programme material

### **Projection Technology**

At the heart of the projector is the latest 1080p DarkChip3™, DLP® technology. This 10 bit signal processing architecture combines with the 7 segment, 6 speed colour wheel featuring NDG (Neutral Density Green) technology. NDG increases visual colour resolution in green, creating a higher bit-resolution image, dramatically reducing low level dithering artefacts. The result is pure images with unprecedented detail.

### **Video Processing Technology**

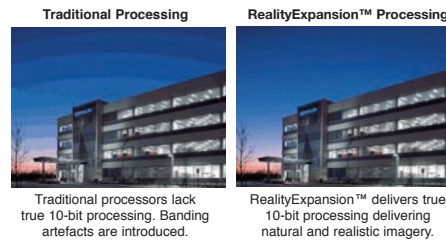
At the heart of the HD81 video processing is Gennum Visual Excellence Processing™ (VXP) technology. This provides revolutionary image quality improvements by employing the worlds most advanced image processing algorithms. It combines studio grade video enhancement and colour management with state-of-the-art video switching, scaling and format conversion. Staggering, never-seen-before colour management tools unleash the full potential of the HD81 giving you complete control to render the perfect image

# Visual Excellence Processing™



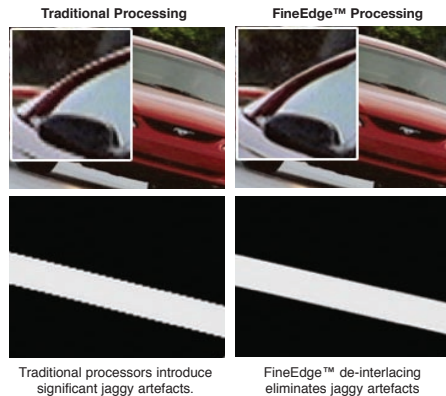
## RealityExpansion™

Gennum VXP™ technology adopts a full 10-bit video processing architecture to deliver eye catching and realistic imagery. Traditional “banding artefacts” are eliminated and images appear smooth and natural.



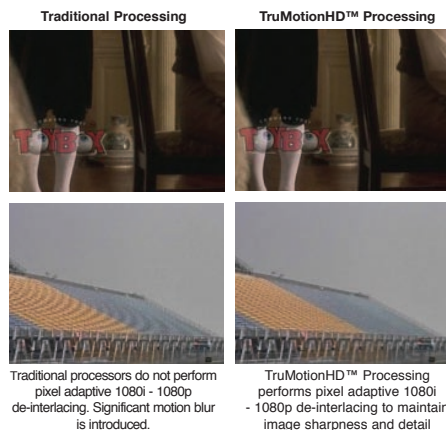
## FineEdge™

FineEdge™ advanced directional interpolation algorithm eliminates “jaggy” artefacts found in traditional de-interlacing solutions. FineEdge™ processing maintains overall image sharpness and detail. FineEdge™ processing is applied to both SDTV and HDTV sources for optimal image quality.



## TruMotionHD™

Gennum’s TruMotionHD™ de-interlacing algorithm is unique in its ability to perform pixel based motion adaptive de-interlacing with automatic 2:2 and 3:2pull-down on both HDTV and SDTV formats. Gennum’s TruMotionHD™ de-interlacing technology supports fully adaptive 1080i 1080p de-interlacing to ensure optimal image quality in demanding applications.



## FidelityEngine™

FidelityEngine™ image enhancements for removal of unwanted noise and improved detail and uncompromised image quality. Unlike traditional processing algorithms, FidelityEngine™ processing can be applied to both SDTV and HDTV sources!



## Video Enhancement

- True 10bit 4:4:4 broadcast-grade processing architecture
- Content adaptive, per-pixel processing of all video signals
- User customisable gamma curve with 10-bit gamma correction
- Dynamic Contrast Extension
- Sophisticated Edge Enhancement
- Content adaptive noise reduction and detail enhancement
- Robust inverse 2:2 and 3:2 processing of film-based inputs (including 1080i)
- Multi-directional edge adaptive processing
- Bad edit correction

## Colour Management

- 6 colour (RGBCYM), 16 region saturation and tint control

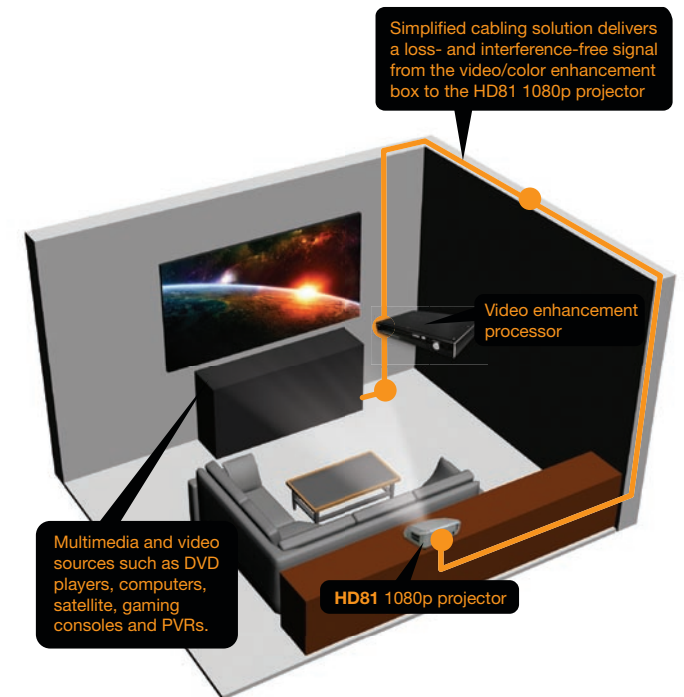
Installation is a breeze with the two piece design of the HD81. The controller box sits next to your video sources and up-scales all inputs to 1080p before transmitting the enhanced video signal, via a single HDMI cable, to the projector

## ISF 3C Modes

ISF modes for calibrated day and night modes. Allows picture performance to match viewing conditions and optimise for any video source with dedicated picture-setting memories

## RS232C & Discrete IR Remote Control

Ideal for Home Automation applications through external controllers and advanced IR remote controls. IR expansion module increases IR range and positioning flexibility



## Technical Specifications

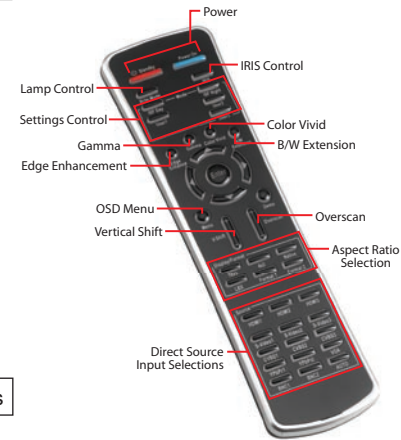
<b>Native Resolution</b>	1080p (1920 x 1080)
<b>Contrast</b>	10,000:1 (Full on Full off)
<b>ANSI Lumens</b>	1400
<b>Technology</b>	0.95" DarkChip3™ DLP®
<b>Video Processing</b>	Gennum VXP™
<b>Compatibility</b>	480i/p, 576i/p, 720p, 1080i/p
<b>Noise (dB)</b>	32/28 (Bright\Standard mode)
<b>Throw ratio / Proj Dist.</b>	1.85 - 2.22:1
<b>Projection Distance</b>	1.5 - 12.5m
<b>Zoom lens</b>	Manual 1.2x
<b>Image size 16:9 (Diagonal)</b>	0.76 - 7.62m
<b>Keystone Correction</b>	Vertical 5%
<b>Image Offset</b>	136%
<b>Vertical Refresh Rate</b>	Input: 24 to 85Hz Output: 48,50,60,72Hz
<b>Lamp Type</b>	300W
<b>Lamp Life</b>	2000/3000 (Bright\Standard mode)*
<b>Size (W x L x H mm)</b>	411 x 311 x 116 (433 x 285 x 50 Controller)
<b>Weight (Kg)</b>	4.5 (4.2 Controller)
<b>Warranty</b>	3 Years
<b>EAN Number</b>	5060059041152

## Controller Specifications

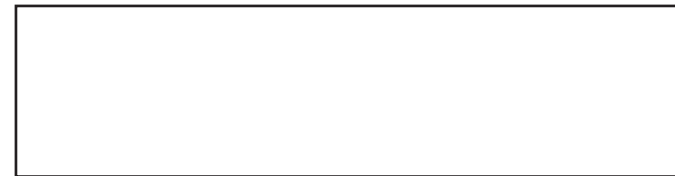
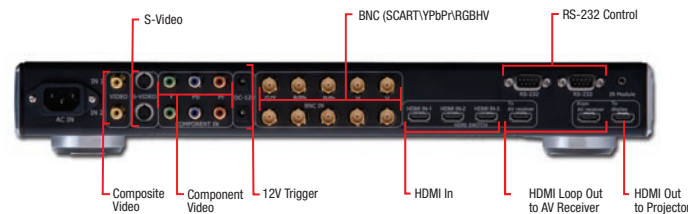
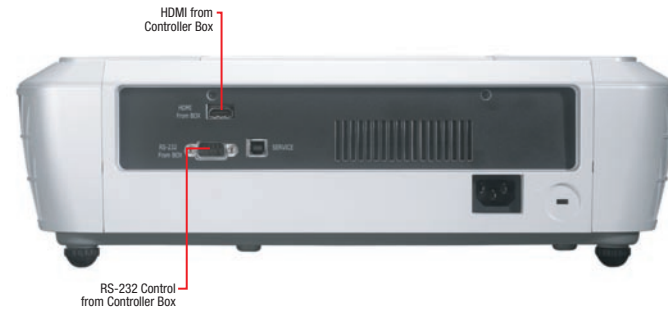
<b>Image processing</b>	Motion Adaptive 480i, 576i and 1080i deinterlacing, 10 bit image processing, 3 presets, 2 programmable display formats, Advanced noise reduction and sharpening
<b>Colour management</b>	User definable gamma, RGBCYM 6 colour, 16 region adjustment, 3 user defined modes, ISFccc colour settings
<b>Installation\Control Features</b>	ISFccc Discrete IR commands (On\Off, Sources, Formats, User Settings), External IR expansion module, RS232 Control
<b>I/O Connectors</b>	Inputs: HDMI x3, HDMI external expansion input x1, BNC Component (SCART, YPbPr, RGBHV) x2, RCA Component x2, S-video x3, Composite video x3, VGA (SCART, YPbPr, RGBHV) x1, RS232, 12 triggers x2, IR port extension x1

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

## Remote Control



## I/O Connectors



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