

# HD HOME PROJECTOR Epson MG-850HD

**EPSON**  
EXCEED YOUR VISION



## Impressive. Immersive. Integrated.

The World's First HD Projector for your Apple® Mobile Devices.



\* Source: Futuresource Consulting

With a dedicated dock for your portable Apple device, this versatile projector also harnesses Epson's latest 3LCD technology to deliver impeccable, high-quality images for superb presentations and movies for home entertainment.

- **Full iPod/iPhone/iPad compatibility**

With easy activation of the projector, getting your movies, songs or presentations up and running quickly is as simple as plugging in your Apple device via the built-in dock

- **Versatility of use**

With the first-ever sliding horizontal keystone adjuster and the automatic vertical keystone detector and adjustment, presentation set-up is made fast and easy, even for beginners

- **Automated image adjustments**

With ambient light detectors intelligently adjusting levels of brightness and colour, you get impressive movie and video reproductions every time

Made for

 iPod  iPhone  iPad

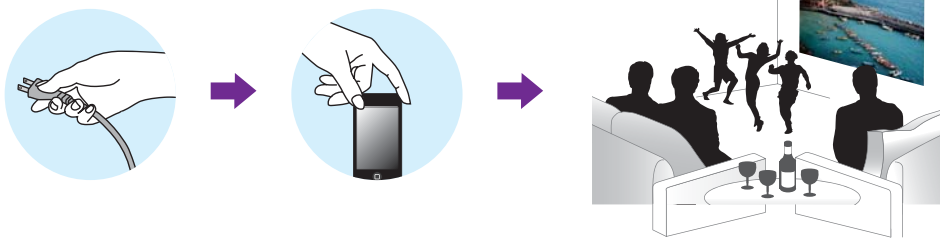


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## FULL IPOD/IPHONE/IPAD COMPATIBILITY

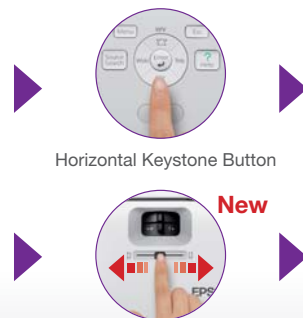
Enjoy a fuss-free experience specifically designed for sharing your presentation slides, photos or videos stored on your Apple device. You can easily access and control playback of your contents using a remote. When you are done, simply lock from your Apple device, so your files remain protected from playback.

Apple devices supported include the original iPad and the iPad 2, all models of the iPhone, the iPod Touch (1st Generation to 4th Generation) and the iPod Nano (3rd Generation to 5th Generation). To enjoy all the features on offer, ensure that your device is running on the latest version of iOS.



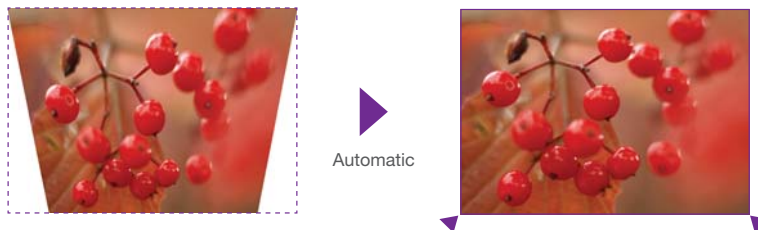
## VERSATILITY OF USE

Deliver powerful presentations anywhere in the room. With the easy-to-use sliding Horizontal Keystone Adjuster, screen corrections can be done quickly, easily and accurately, for both beginners and experienced users.



Sliding Horizontal Keystone Adjuster

With automatic vertical keystone detection and adjustment, there is no longer any need for awkward and time consuming manual image adjustments that interrupt the smooth flow of your presentation delivery. This handy feature automatically detects the projector's vertical keystone distortion and corrects it instantly.



## AUTOMATED IMAGE ADJUSTMENTS

No need to fumble with light switches or bulky curtains to ensure a crisp, clear and bright image for your audience. The MG-850HD automatically measures the levels of ambient light of your environment, adjusting your projected images to optimise individual room conditions.

Brightness	Usage Environment		Transition
	Images	Description	
300 - lx		Daylight viewing	
100 - 300 lx		Daylight viewing with ambient light	
30 - 100 lx		Night-time viewing with ambient light	
0 - 30 lx		Night-time viewing without any light	

## PERFECT FOR THE CLASSROOM

With a long-lasting E-TORL lamp providing a brightness of 2800 lumens, a microphone input and a pair of high-powered 10W speakers, MG-850HD is suitable for educational purposes and is even a substitute for a PA system. A direct connection with Epson's ELPDC06 and ELPDC11 document cameras also makes for convenient sharing of any printed teaching materials.



## DIRECT USB PLAYBACK FOR PHOTOS

Simply load your photos into any USB thumb drive and plug in to instantly share them on a dazzling 1280x800 WXGA high resolution large display. Virtual paintings may also be projected onto blank walls to serve as interactive, moving decorations for your presentations.



### Eco Features

- Equipped with an E-TORL lamp engineered to maximise light usage efficiency
- Uses just 0.3W of power in standby mode
- Projector optics employ lead-free lenses
- Unpainted plastic housing reduces the environment impact
- The flame retardants used in the plastic housing do not contain chlorine or bromine

### Better Products for a Better Future™

For more information on Epson's environmental programmes, visit [www.epson.com/environment](http://www.epson.com/environment)

## PARTNERS IN PERFECTION

### Ultraportable Document Camera ELPDC06



Easily portable; 0.96 kg/2.11 lbs  
1.92 megapixels with 15 fps  
4x digital zoom  
USB powered

### Desktop Document Camera ELPDC11



2.2 kg/4.85 lbs  
5 megapixels with 30 fps  
10x digital zoom  
Bundled with microscope adaptor

### Interactive Unit ELPIU01



USB powered  
Easy interactive function  
Simple and easy set-up

# Colour Light Output

- an easy way to evaluate projector colour output

## What is Colour Light Output?

Colour Light Output (CLO) is a specification that provides critical information on a projector's ability to deliver colour. Developed by colour scientists using the same approach as White Light Output (Brightness) measurement, Colour Light Output provides the buyer with additional key information about colour.

## Does Brightness measure colour?

No. Current product specifications such as Brightness (or White Light Output), Contrast Ratio and Resolution give no information regarding a projector's ability to reproduce colour. The existing Brightness specification only measures the total amount of White Light projected. It does not measure colour – in fact, many manufacturers artificially boost brightness by adding white light, which dilutes the projector's colour brightness.

## Why is Colour Light Output important?

Colour Light Output is critically important because it measures the brightness of Red, Green and Blue. Red, Green and Blue create white when combined in the right proportions. They also comprise the input signal that tells your projector how to reproduce colour images. Beautifully balanced colour is possible when bright Red, Green and Blue combine to produce the brightness equal to White. Colour Light Output provides users with an additional way to evaluate a projector and make more discerning buying decisions.

## Is Colour Light Output the same in all projectors?

No. There are vast differences in the Colour Light Output of projectors on the market today. Look at the images below from two competing projectors

3LCD Projector



Image #1\*

Brand X



Image #1\*



Image #2\*



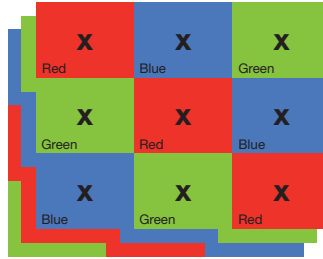
Image #2\*

Colour Light Output specification describes the difference in colour between these two projectors.

## How is Colour Light Output measured?

X	X	X
X	X	X
X	X	X

**Brightness (or White Light Output)** measures the total amount of white light projected in lumens on a nine point grid. It does not measure colour.

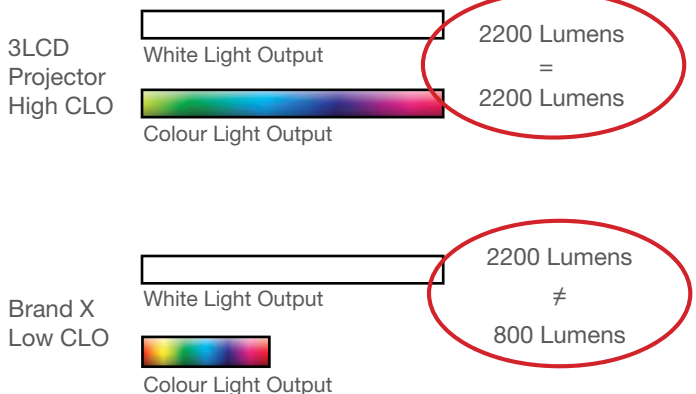


**Colour Light Output** uses 3 sets of a nine-point grid to measure the primary colours - red, green and blue, using the same approach used to measure White Light Output in lumens.

## How should Colour Light Output be used?

Colour Light Output should be used with White Light Output to provide insight into a projector's overall picture quality. Two things to remember:

1. Select High Colour Light Output.
2. Make sure the Colour Light Output equals the White Light Output.



When selecting a projector, ask for the Colour Light Output measurement.

\* Actual photographs of images produced by 2 competing projectors run in default mode. Price, Resolution and Brightness (White Light Output) are the same for both projectors.

# Epson Revolutionises Projector Market with 3LCD Technology and Leads as World's No.1\* Projector Brand for 10 Consecutive Years!

\* Based on independent research by Futuresource Consulting

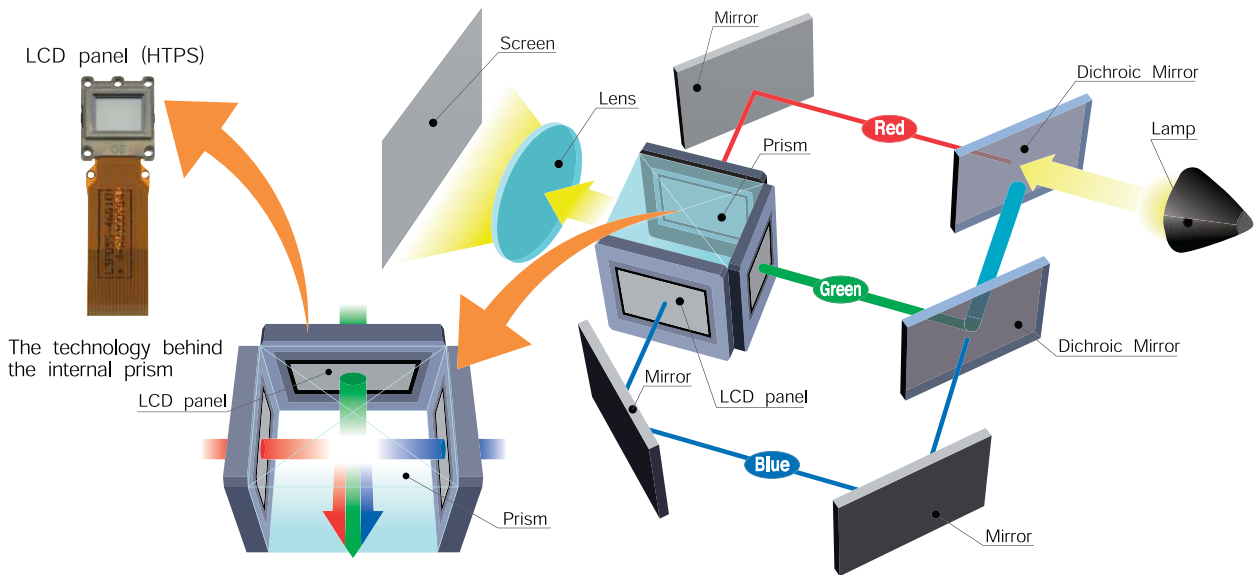
## Advantages of 3LCD Projection System

### Bright Images and Faithful Colour Reproduction

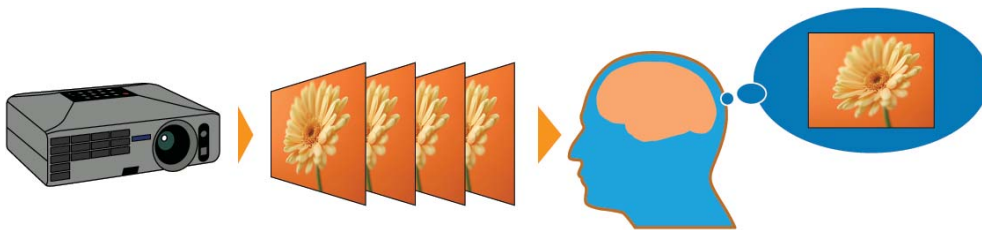
3LCD projectors offer all-time colour (Red, Green and Blue) projection thereby ensuring faithful full colour reproduction. This is suitable for projection of colour intensive images such as videos, photographs and colour charts.

### Incredible Details

3LCD projectors are able to produce an unparalleled range of grayscale images, which contributes to delivering incredible colour images that are smooth and seamless.



3LCD projector : RGB are projected at the same time, which makes the single composite image easy on the eyes.



\*\* HTPS (High Temperature Poly-Silicon) is an active matrix transmissive LCD. It is extremely small and produces high-quality images.

### Gentle on the Eyes

3LCD projectors' images do not suffer from colour break-up (commonly known as the rainbow effect). The projections are easy on the eyes as you will not be affected by any distorted pattern.

3LCD projectors use 3 separate LCD panels to form a continuous image containing all colours (red, blue and green) ensuring smooth video playback, even for rapid-motion images.

### Reliable Technology

With more than 60 million 3LCD chips shipped to date, the powerful and road-tested 3LCD projection technology is extremely reliable, and is trusted by many throughout to deliver sharp and true-to-life images.



## MG-850HD

### SPECIFICATIONS

<b>SUPPLIED ACCESSORIES</b> Power Cable 3m, 3 Wire (Black) Remote Control Yes (Black) with battery attached iPad Bracket Attached User's Manual Set Attached  <b>OPTIONAL ACCESSORIES</b> Spare Lamp ELPLP67 Air Filter ELPAF37  <b>PERIPHERALS</b> Portable USB Document Camera ELPDC06 Desktop Document Camera ELPDC11	<b>MODEL NUMBER</b> MG-850HD																											
	<b>PROJECTION TECHNOLOGY</b> RGB liquid crystal shutter projection system (3LCD)																											
<b>SPECIFICATION OF MAIN PARTS</b> <table border="1"> <tr> <td rowspan="2">LCD</td> <td>SIZE</td> <td>0.59" without MLA (D8)</td> </tr> <tr> <td>NATIVE RESOLUTION</td> <td>720p (1280 x 800)</td> </tr> <tr> <td rowspan="5">PROJECTION LENS</td> <td>TYPE</td> <td>Optical Zoom (Manual) / Focus (Manual)</td> </tr> <tr> <td>F-NUMBER</td> <td>1.58 - 1.72</td> </tr> <tr> <td>FOCAL LENGTH</td> <td>16.9mm - 20.28mm</td> </tr> <tr> <td>ZOOM RATIO</td> <td>1 - 1.2</td> </tr> <tr> <td>THROW RATIO</td> <td>1.30 - 1.56 (Wide - Tele)</td> </tr> <tr> <td rowspan="2">LAMP</td> <td>TYPE</td> <td>200W UHE (E-TORL)</td> </tr> <tr> <td>LIFE (NORMAL/ECO)</td> <td>4,000 hours / 5,000 hours</td> </tr> </table>	LCD	SIZE	0.59" without MLA (D8)	NATIVE RESOLUTION	720p (1280 x 800)	PROJECTION LENS	TYPE	Optical Zoom (Manual) / Focus (Manual)	F-NUMBER	1.58 - 1.72	FOCAL LENGTH	16.9mm - 20.28mm	ZOOM RATIO	1 - 1.2	THROW RATIO	1.30 - 1.56 (Wide - Tele)	LAMP	TYPE	200W UHE (E-TORL)	LIFE (NORMAL/ECO)	4,000 hours / 5,000 hours							
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<b>SCREEN SIZE (PROJECTED DISTANCE)</b> 33" - 318" [0.9m - 9.0m] (Zoom: Wide) 33" - 317" [1.08m - 10.8m] (Zoom: Tele)																												
<b>BRIGHTNESS</b> COLOUR LIGHT OUTPUT (NORMAL) 2,800lm WHITE LIGHT OUTPUT (NORMAL) 2,800lm																												
<b>CONTRAST RATIO</b> AUTO IRIS: ON 3,000:1																												
<b>VIDEO QUALITY</b> 3D Y/C separation, Noise Reduction Motion compensated Interlace-Progressive conversion (2 - 2, 3 - 2 film detection)																												
<b>SUPPORTED VIDEO SIGNAL</b> 480i / 576i / 480p / 576p / 720p / 1080i NTSC / NTSC4.43 / PAL / M-PAL / N-PAL / PAL60 / SECAM																												
<b>COLOUR MODE</b> Auto, Dynamic, Living, Cinema, Game																												
<b>INTERNAL SPEAKER(S)</b> SOUND OUTPUT 10W x 2																												
<b>KEYSTONE CORRECTION</b> VERTICAL/HORIZONTAL ANGLE ±30° / ±30° (Slider) AUTO KEYSTONE CORRECTION Yes (Vertical: ±30°)																												
<b>CONNECTIVITY</b> <table border="1"> <tr> <td>ANALOG INPUT</td> <td>D-SUB 15PIN</td> <td>1 (Blue)</td> </tr> <tr> <td rowspan="3">VIDEO INPUT</td> <td>COMPONENT</td> <td>RCA x 3 (Red / Green / Blue)</td> </tr> <tr> <td>COMPOSITE</td> <td>RCA x 1 (Yellow)</td> </tr> <tr> <td>S-VIDEO</td> <td>N/A</td> </tr> <tr> <td>DIGITAL INPUT</td> <td>HDMI</td> <td>1 (support HDCP)</td> </tr> <tr> <td rowspan="2">AUDIO INPUT</td> <td>RCA (WHITE/RED)</td> <td>1 pair</td> </tr> <tr> <td>STEREO MINI-JACK</td> <td>N/A</td> </tr> <tr> <td rowspan="4">OTHERS</td> <td>USB TYPE A</td> <td>1 (USB Memory, ELPDC06)</td> </tr> <tr> <td>USB TYPE B</td> <td>1 (USB Display / Mouse / Control)</td> </tr> <tr> <td>MICROPHONE INPUT</td> <td>1 x Stereo Mini-Jack</td> </tr> <tr> <td>IPOD DOCK CONNECTOR</td> <td>Yes</td> </tr> </table>	ANALOG INPUT	D-SUB 15PIN	1 (Blue)	VIDEO INPUT	COMPONENT	RCA x 3 (Red / Green / Blue)	COMPOSITE	RCA x 1 (Yellow)	S-VIDEO	N/A	DIGITAL INPUT	HDMI	1 (support HDCP)	AUDIO INPUT	RCA (WHITE/RED)	1 pair	STEREO MINI-JACK	N/A	OTHERS	USB TYPE A	1 (USB Memory, ELPDC06)	USB TYPE B	1 (USB Display / Mouse / Control)	MICROPHONE INPUT	1 x Stereo Mini-Jack	IPOD DOCK CONNECTOR	Yes	
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<b>OPERATING TEMPERATURE</b> 5°C - 35°C <41°F - 95°F> ( 20% - 80% humidity, unfrozen )																												
<b>OPERATING ALTITUDE</b> 0m - 2,286m <0ft - 7,500ft> (over 1,500m / 4,921ft: with high altitude mode)																												
<b>DIRECT POWER ON/OFF</b> Yes																												
<b>START-UP PERIOD</b> 6 seconds																												
<b>COOL-DOWN PERIOD</b> Instant Off																												
<b>POWER SUPPLY VOLTAGE</b> 100V - 240V AC +/- 10%, 50Hz / 60Hz																												
<b>POWER CONSUMPTION (220V - 240V)</b> <table border="1"> <tr> <td>LAMP ON (NORMAL/ECO)</td> <td>303W / 256W</td> </tr> <tr> <td>STANDBY</td> <td>0.3W</td> </tr> </table>	LAMP ON (NORMAL/ECO)	303W / 256W	STANDBY	0.3W																								
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<b>DIMENSIONS EXCLUDING FEET (D X W X H)</b> 291mm x 340mm x 115mm (11.46" x 13.39" x 4.53")																												
<b>WEIGHT</b> Approx. 3.9kg / 8.60lbs																												
<b>FAN NOISE (NORMAL/ECO)</b> 29dB / 35dB																												

MG-850HD Back Connector Panel



MG-850HD Side Connector Panel



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