

# EPSON PROJECTOR FACT SHEET

## 3LCD – A CLEAR DIFFERENCE

As the number one projector manufacturer globally<sup>1</sup>, Epson leads the market in the development of projector technology. Epson projectors use a 3LCD projection engine to deliver bright, clear images that are rich in detail and colour.

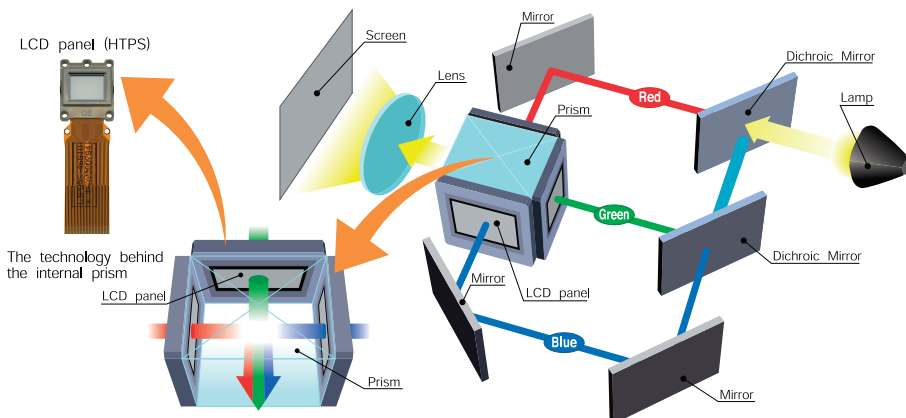
Many of Epson's competitors use 1-chip DLP™<sup>2</sup> projector systems, which create thousands of pulses of coloured light per second. They do this by shining lamp light through red, green, blue and white<sup>3</sup> parts of a rotating colour wheel. These light pulses are then reflected by a DMD™<sup>4</sup> device, which is on a hinge and has a tiny mirror for each pixel of the image.

The series of rapid colour bursts is then projected onto the screen. The viewer's brain can't pick out the individual flickers - it mixes the basic colours that appear in succession in each pixel to come up with the final colour the viewer sees.

Epson's 3LCD system works differently, using a combination of dichroic mirrors to separate the white light from the projector lamp into red, green and blue light. Each of the three light colours is then passed through its own LCD panel and recombined using a prism before being projected onto the screen.

With 1-chip DLP technology, colour break-up or the 'rainbow effect' can sometimes be seen. This occurs when the eye perceives the individual colours, and is a result of the colours being projected sequentially by the colour wheel. Epson's 3LCD technology avoids this by including all three basic colours in each pixel of the projection, delivering superior Colour Light Output that's easier on the eyes.

3LCD technology is used in every Epson projector, giving outstanding results for home cinema, classroom teaching, digital signage and business presentations.



<sup>1</sup> Source: Futuresource Consulting Limited, [www.futuresource-consulting.com](http://www.futuresource-consulting.com).

<sup>2</sup> DLP™ (Digital Light Processing™) is a trademark of Texas Instruments Incorporated.

<sup>3</sup> Some 1-chip DLP™ projectors do not contain white but contain other colours.

<sup>4</sup> DMD™ (Digital Micromirror Device™) is a trademark of Texas Instruments Incorporated.

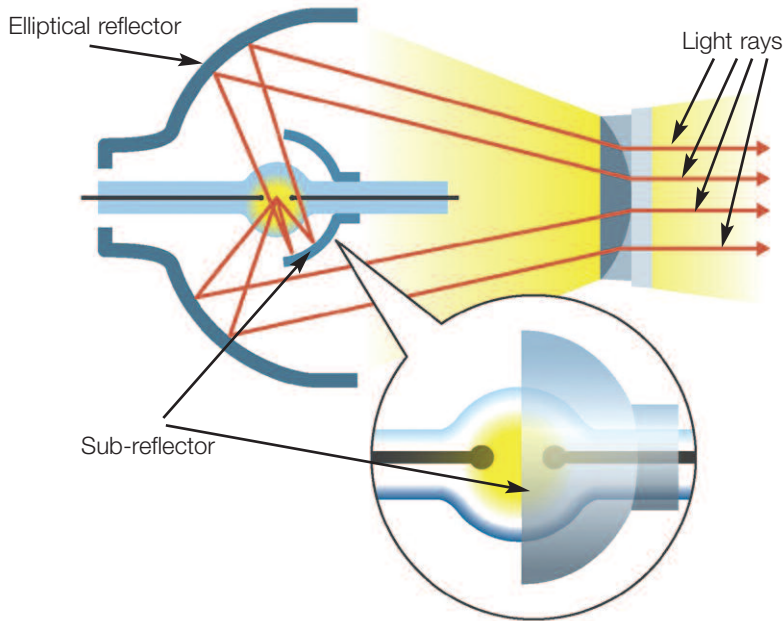
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## E-TORL – MORE POWER USING LESS ENERGY

Epson E-TORL lamps deliver exceptional brightness while using less energy. They do this by using a unique configuration of reflectors to capture light that is usually lost with other manufacturers' lamps. This improved efficiency means that Epson E-TORL lamps are better for both budgets and the environment.



# E-TORL

## EasyMP™ – TOTAL CONVENIENCE

Epson EasyMP is a suite of projector features designed to make life easier.

**EasyMP Monitor** allows a fleet of up to 1,092 projectors to be monitored and maintained from a single point on a wireless or local network. Saving time and hassle, EasyMP Monitor uses a web browser to generate email alerts on temperature, air filter and lamp status. This keeps projector technicians informed of any problems or potential issues and removes the need for physical checks. The system can even send a lamp-life warning message to the person responsible for purchasing lamps. EasyMP Monitor can help save energy and lamp life by allowing projectors to be remotely switched on and off at pre-programmed times.

**EasyMP Network Presentation** enables up to four projectors to be connected to one PC via a wired or wireless connection.

**EasyMP PC-Free** allows USB devices to be connected to projectors for easy presenting without the need for a PC.