



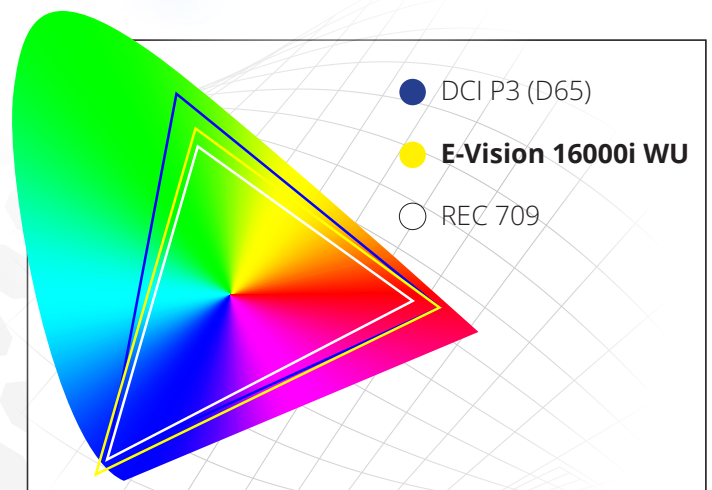
## Introducing the new 0.8" HEP DMD and why it matters for your installation

The E-Vision 16000i utilizes Texas Instruments Incorporated (TI) all new 0.8" HEP DMD, which brings a host of exciting features to elevate your viewing experience.

Completely redesigned, the new DMD has an increased tilt angle which gives better efficiency and can be used to increase brightness and contrast.

The DMD also features new filled via which also reduces the scattering of light that results in increased native contrast.

Amongst other improvements, the DMD has been optimized for the colour red which means when coupled with our Colorboost+Red Laser technology, you get reds that were previously unachievable on a 1-Chip DLP® projector. All these changes means that the colour space far exceeds REC709, making this one of the most powerful 1-Chip DLP projectors on the market today.



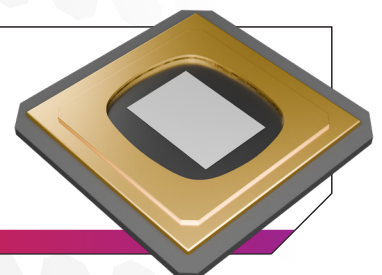
### Major Achievement

The E-Vision 16000i achieves **123%** of the REC 709 Colour space and 90% of DCI P3 – all from a 1-Chip DLP projector.

### Discover

See how the brand new 0.8" HEP DMD makes a real life difference and enhances your productions.

Visit us at: [digitalprojection.com/technologies/HEP](https://digitalprojection.com/technologies/HEP)



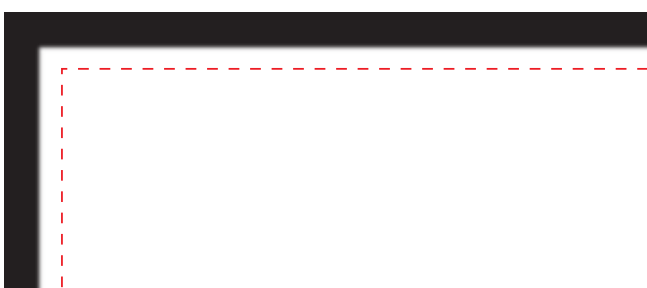
### Some Key Features



Significantly improved contrast with Filled Mirror Via (FMV).



Providing better reds and wider colour gamut with Improved DMD diffraction efficiency for red LED and red laser.



Easier blending with invisible Pond of Mirrors (POM) – the newly designed POM matches the off-state pixel colour

### What does HEP stand for?

- High-Efficiency Pixel

### Why utilise this new DLP platform from TI?

Put simply, when coupled with our Nexus electronics and ColorBoost+Red Laser technology, HEP provides opportunity to win on picture quality and colour.

- Enable customers to display better colours with improved reliability at high optical power.

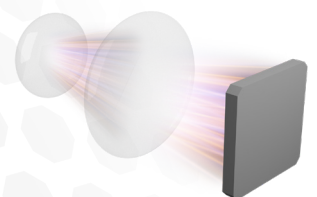
Put simply – more lumens per watt, making this the greener choice. The slightly larger 9.0um pixel pitch is the perfect combination of size and performance. This new DMD captures more light and the mirror size and tilt angle for the HEP DMDs is optimized for efficiency in ALL colours, red, green and blue. This Improved Optical efficiency Gives an overall Brightness efficiency of 66% to 74%, more light in = more light out.



More efficient - The HEP pixel provides >85% diffraction efficiency for LED, RGB laser and laser-phosphor which allows for more efficient projectors across the DLP markets from 1500lm to >20,000lm projectors.



High Etendue - Etendue is the ability of a source to emit light or the ability of an optical system to accept light. The new HEP DMD has a balanced tilt angle and area to achieve high etendue at minimal cost.



**HEP optical benefits and improvements (short list)**

- Higher operating margins improve lifetime, reliability, and optical power handling
- Hermetic package for improved lifetime, high power and humid environments
- Improved mirror fill factor leads to improved DMD efficiency
- POM and off state mirrors are now at the same level of contrast for better edge blending
- Pixel capable of enhanced mirror reflectivity
- HEP provides opportunity to win on picture quality and colour

**Next Steps:**

We challenge you to compare the image quality, the colour and contrast of our new 0.8" HEP range against any other technology – the improvements, coupled with the proven reliability and **long lifetime of TI's DLP technology** make these projectors a genuinely huge leap forward in projection technology.

DLP® and DMD are trademarks of Texas Instruments Incorporated.

**Try it out right now!**



**E-Vision 16000i WU**

The E-Vision 16000i utilizes Texas Instruments (TI) all new 0.8" HEP DMD, which brings a host of exciting features to elevate your viewing experience. Completely redesigned, the new DMD has an increased tilt angle which gives better efficiency and can be used to increase brightness and contrast. The DMD also features new filled via which also reduces the scattering of light that results in increased native contrast. Amongst other improvements, the DMD has been optimised for the colour red. When coupled with our Colorboost+Red Laser technology, it delivers reds that were previously unachievable on a 1-Chip DLP projector. All these changes mean that the colour space far exceeds REC709, making this one of the most powerful 1-Chip DLP projectors on the market today.

**Discover the E-Vision 16000i WU**

**More information**

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