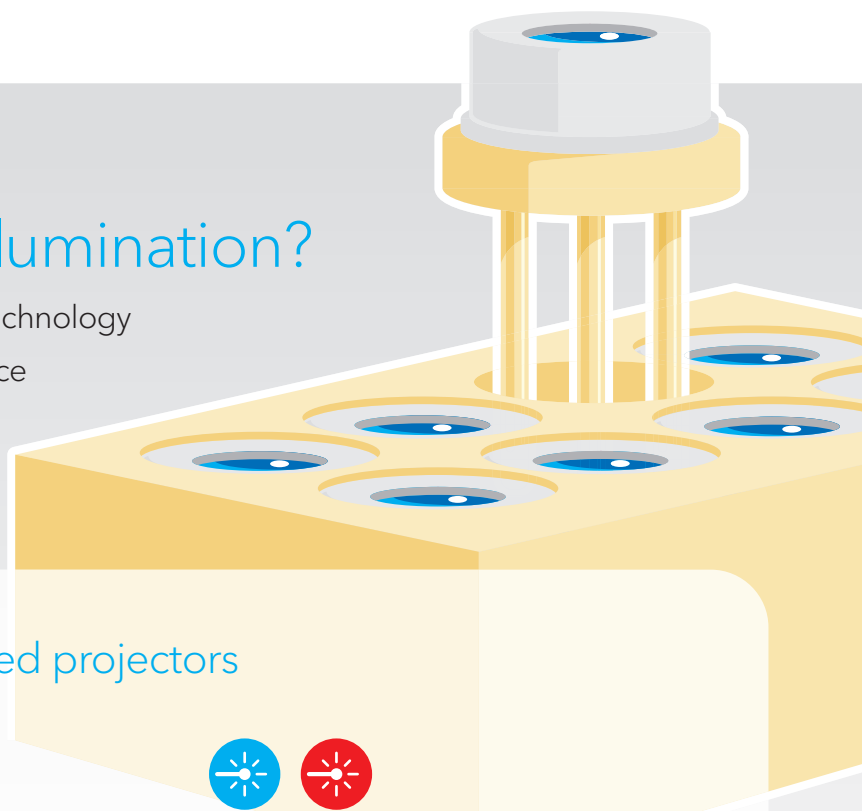


Anatomy of a laser phosphor projector

CHRISTIE®

What is laser phosphor illumination?

- » A solid-state, lampless projection illumination technology
- » Uses blue laser diodes as the primary light source



Types of laser phosphor illuminated projectors



Typical laser phosphor
Employs blue laser diodes shining onto a phosphor wheel.

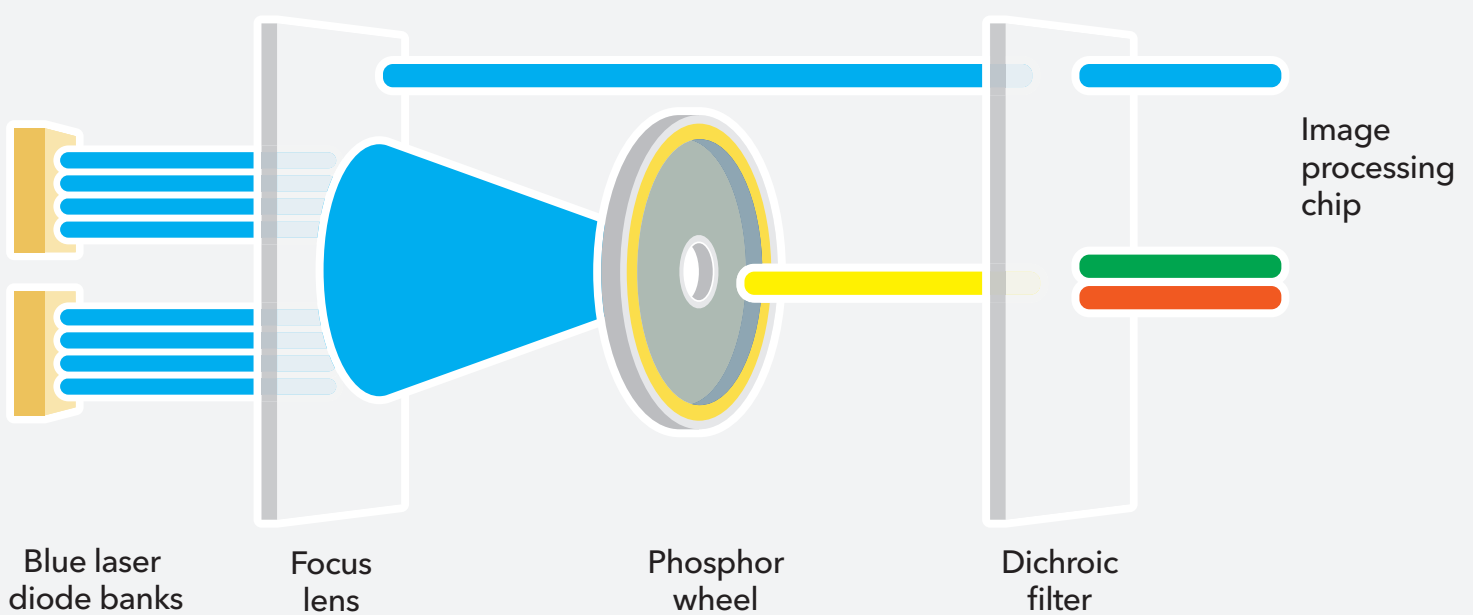


Laser phosphor hybrid
Same as a typical laser phosphor projector but adds a red LED light source to boost the red color component.



Laser phosphor with red laser
Similar to a laser hybrid, but employs a red laser diode instead of an LED to produce better overall saturation and realistic colors. Forms the basis for Christie® BoldColor Technology.

Typical laser phosphor illumination system



The majority of laser phosphor projectors shine blue laser light onto a phosphor wheel to create yellow light. Blue light is then combined with the yellow light to create white light. This white light is split

into the three primary - red, green and blue - colors using a prism or a color wheel. From these primary colors, a laser phosphor projector is able to reproduce a wide variety of different colors.

10 advantages of laser phosphor



No lamp changes required



Low energy consumption

20K

20,000+ hours operational life

24x7

24x7 operation



No need for filters (in most designs)



Instant on/off capabilities



Reduces down-time and maintenance



High-brightness, high-contrast and wide color gamut



Reduces costs over time



Choice of entry-level models to premium projectors

Laser phosphor is ideal for high-use applications

- » Boardrooms
- » Auditoriums
- » Retail locations
- » Classrooms
- » Location-based entertainment venues
- » Houses of Worship

[Click to learn more about Christie's laser phosphor solutions.](#)

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