Christie BoldColor Technology

BoldColor Technology

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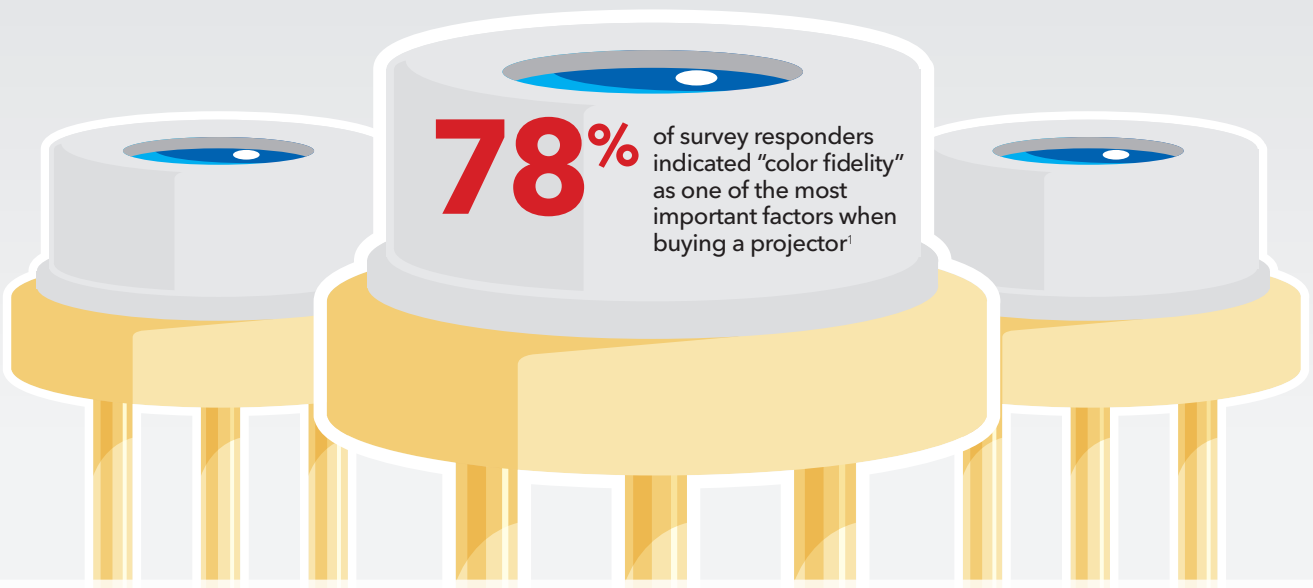
Color fidelity and laser phosphor illumination

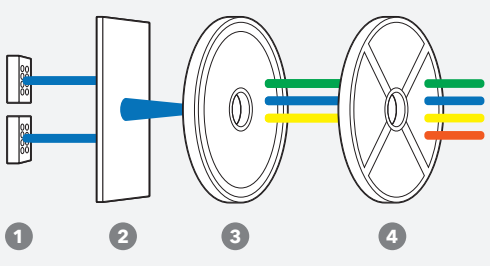
Laser phosphor is a solid-state, lampless projection illumination platform that uses blue laser diodes as the primary light source. Offering a long life, minimal maintenance and a low cost of operation, laser phosphor projectors are gaining popularity in the ProAV industry.



Christie BoldColor Technology creates the color balance needed to accurately reproduce colorful images, without sacrificing brightness.

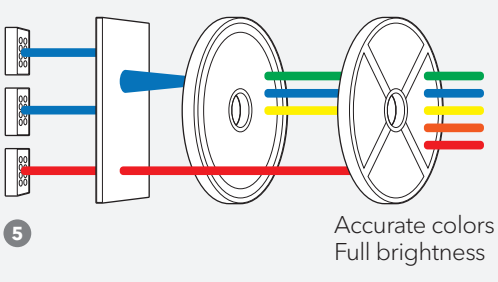
An industry first, Christie® BoldColor Technology employs blue and red laser diodes as well as a poptical chamber, video processing and specialized software to produce enhanced color and saturation and more lifelike visuals when compared to typical laser phosphor projectors.

Typical laser phosphor illumination

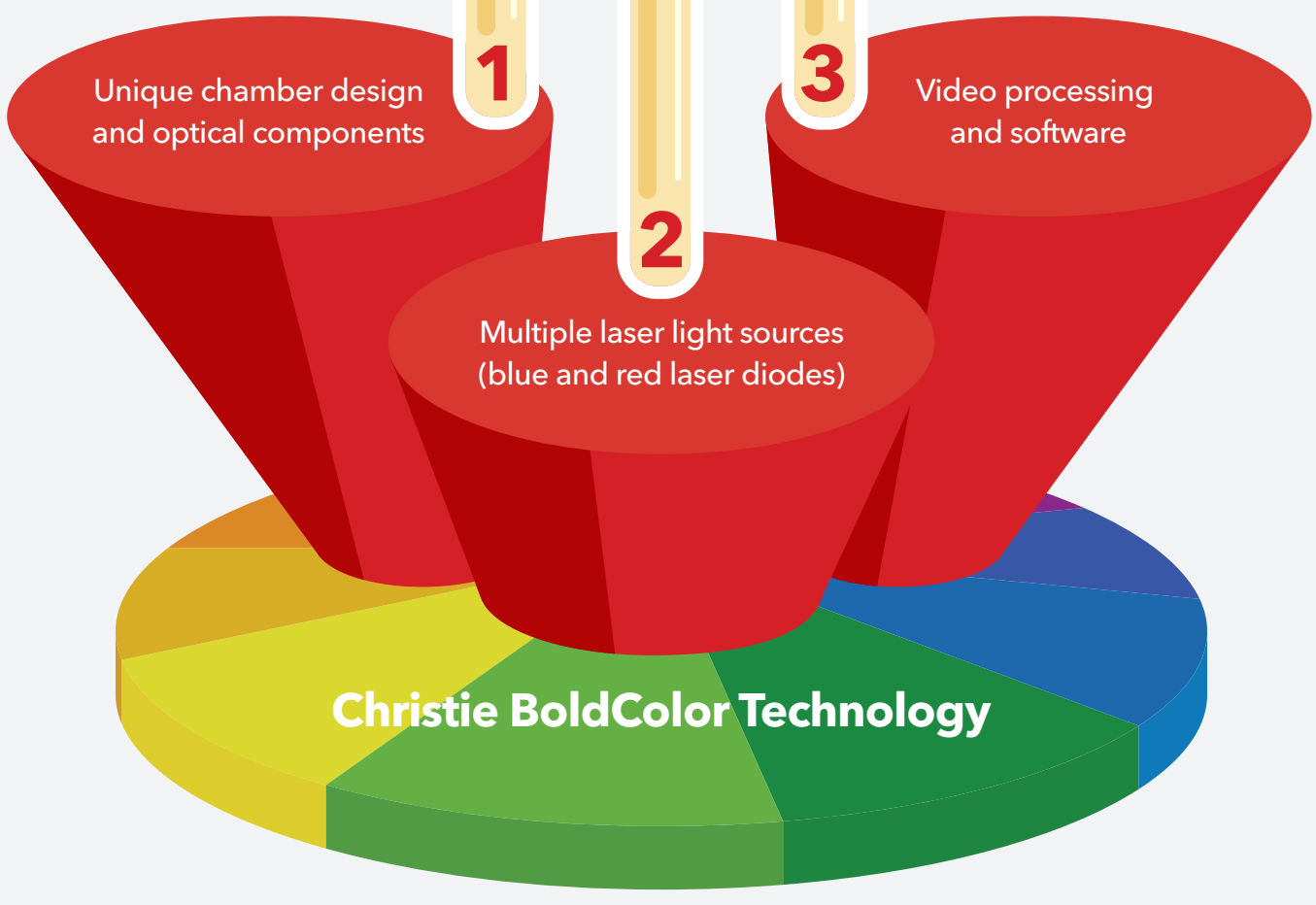


1. Blue laser diode banks
2. Focus lens
3. Phosphor wheel
4. Color wheel

Laser phosphor illumination with Christie BoldColor Technology



5. Red laser diode bank



Color fidelity shootout

Christie BoldColor Technology equipped projector vs. competing 1DLP® laser phosphor projector.

Christie BoldColor Technology

Accurate color reproduction
Accurate detail in white and darks
Looks like original content

Competitor

Oversaturated colors – green is boosted
Greens have a more yellow hue
Loss of detail in whites and darks
Modified original content – can seem appealing

Accurate color reproduction
Full brightness and good whites
Accurate detail in whites and darks

Yellowish reds and greens
Loss of detail in whites and darks

Accurate color reproduction
Color balance is maintained
Full detail in highlights and darks

Yellowish greens
Boosted blue and greens – unnatural
Loss of detail in highlights and darks

Accurate color reproduction
Great skin tones
Beautiful color balance

Yellowish reds and greens
Boosted greens
Skin tones unnatural

With about a **30%** loss in brightness, it is possible to improve the color of the competing product by changing settings, however, it never matches the original content or the color balance achievable with Christie BoldColor Technology.

Comparing laser phosphor projectors?

Be aware of these 6 color manipulations that distort content to gain brightness.

1. Oversaturated greens
2. Crushed whites
3. Crushed blacks
4. Whites that appear yellowish
5. Reds that appear more orange
6. One color appearing much stronger/more saturated than the others

Need help choosing a projector? Contact Christie today.

Want to know more about laser phosphor? Visit our resources page for more information.

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[1] Survey conducted by Christie and rAVe Publications.