

## Mitsubishi Goes Lampless with New Laser Projectors

Written by Bob Snyder  
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Mitsubishi Electric brings out the **LaserVue family of lamp-free projectors**, the company's first hybrid-design. To produce the red-green-blue lighting elements required to form all displays, Mitsubishi LaserVue projectors use one pure red LED and up to 34 pure blue laser diodes of varying strengths and wavelengths, and a solid-colored phosphor wheel that emits green light.

Unlike other light engine designs in the market today (e.g., Casio), some of the blue laser diodes are diverted to excite phosphors on this single-segment wheel. This creates a clean, clear green, eliminating color breaking or rainbow effects that are sometimes observed in similar projectors. Those that use dual or multi-segment color phosphor wheels often attempt to boost brightness at the expense of color accuracy. Mitsubishi's new design uses a single-segment wheel -- thus, no reduction or brightness.

Mitsubishi's new line of LaserVue projectors consists of three portable models: the NW31U-EST WXGA (1280x800 resolution) extreme short throw model will be the first to become available in April, followed shortly by two standard throw models, the NW30U WXGA (1280x800 resolution) and the NF32U full high-definition, 1080p resolution projector.

They are spec'd with 2500 lumens, 3000 lumens and 3000 lumens respectively, and to last for 20,000 hours. All three have both HDMI and VGA ports and can handle network content as well.

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