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In addition to our many awards and recognitions, the Sundance Film Festival®, the Academy Awards® and Hollywood studios have consistently employed Digital Projection’s displays for more than a decade. Every day, our products can be found at work in the world’s most important events and venues.

For a true Hollywood entertainment experience there is only one choice. Call Digital Projection to make your home cinema a legendary entertainment venue.

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“In our third year exclusively using DPI projectors for digital screenings, the Tribeca Film Festival can confidently rely on the superior image quality and unmatched reliability of the Digital Projection product line. Our audiences demand the highest standards, and we can depend on Digital Projection to meet these expectations year after year.”

Mark Steele, Technical Director, Tribeca Film Festival
Exceptional home cinemas are, in fact, private screening rooms, and as such they demand systems capable of exceeding the entertainment experience enjoyed in a premium commercial theater. To achieve that goal, Digital Projection created exclusive optical and electronic system enhancements to assure state-of-the-art digital cinema entertainment for our customers:

- **Intelligent Lens Memory (ILM)** - Standard on the majority of TITAN and LIGHTNING displays, the ILM provides automatic re-positioning of all lens adjustments whenever the user selects sources of varying aspect ratios. Precise and quiet when operating, this advanced capability guides lens zoom, focus and shift to any one of up to 10 user-defined preset locations.

- **TheaterScope System** - Available as an option for nearly all of DPI’s home cinema displays, TheaterScope equipped systems utilize anamorphic optics to allow native 16 x 9 aspect ratio projectors to display both 1.78:1 and 2.35:1 content on fixed-height screens with no letterbox (horizontal black bars). When a 2.35:1 source is presented to the projector, the TheaterScope System is triggered and in tandem, the width of the 16 x 9 screen is increased to match 2.35:1 aspect ratio sources. The TheaterScope thus maintains a constant screen height while increasing the overall image area by 33%, as well as maintaining maximum projector lumens and resolution.

- **Constant Height Projectors** - Currently available in the dVision Scope 1080p model, which employs an exclusive DMD, boasting 2560 x 1080 resolution. This enables constant height “TheaterScope” applications without the need for costly anamorphic optics and mechanical sled systems. When the projector is presented with a 1080p source, it displays that source at the native 1920 x 1080 pixels. When the projector is presented with scope content, the vertical 1080 pixels are maintained, while additional horizontal pixels are added to present the wider image. As an example, a 2.35:1 source would be displayed at 2538 x 1080 pixels, bringing more resolution and more lumens to the wider, scope aspect ratio screen. The dVision 35 Scope 1080p represents the simplest, most elegant and highest resolution solution for constant-height screen applications.

**3D Home Cinema Displays**

DPI offers an extensive lineup of single-chip and 3-chip DLP® 3D displays, capable of rendering powerful 3D entertainment and gaming on screens of any scale. DPI's immersive 3D projectors rely on key technological innovations such as our Active-3D sideboard. The sideboard contains a dual pipe, “Straight-Shot” high bandwidth input, which introduces less than one frame of latency. Many 3-chip 3D units also include DPI’s FastFrame™ technology, a revolutionary combination of hardware and firmware that provides user adjustments to vastly reduce the artifacts and motion blur typically associated with rapidly moving imagery. This is especially important when viewing sporting events or any other fast-moving entertainment content. Dual and Triple-Flash Processing™, an additional benefit of DPI’s 3D displays, supports the presentation of 60 Hz sources at frame rates up to 120 Hz and 24 Hz sources, such as Blu-ray, at frame rates up to 144 Hz.
The Secret to Award-Winning Imagery

Breathtaking projected imagery is a result of expert engineering, the selection of high-quality components and attention to every detail during final design implementation.

Armed with this knowledge, DPI selected DMD™ technology by Texas Instruments as the core image modulating system for our displays. Among its many imaging benefits, the DMD™ microchip exhibits extraordinary sharpness on a pixel-by-pixel basis, even at high lumen levels. As a result, our LIGHTNING, TITAN, HIGHlite, division, M-Vision, iVision and E-Vision projectors all produce amazingly bright images with razor sharp resolution, dynamic luminance uniformity and high local-area contrast.

To render imagery that looks true to life, a projection system must also exhibit a broad color gamut, accurate color temperature and high-fidelity tonal reproduction, all working in unison. DPI achieves this critical balance by pairing our broad-spectrum Xenon lamps and long life HID illumination systems with optical components incorporating color primaries that match SMPTE and EBU video standards. Our LED illuminated displays feature Lifetime Illumination and can produce an even broader color space. When complemented with our proprietary digital signal processing, the resulting imagery—composed of billions or even trillions of colors—demonstrates an engaging film-like appeal.

Finally, to assure this brilliant performance is consistently delivered for the long term, we created a digital architecture that produces supreme image stability, virtually eliminating the need for system "tweaking". Our commitment to developing powerful, efficient and responsible products is exemplified in all of our displays, delivering maximum lumen output with minimal energy consumption. DPI’s attention to detail, from design to production, assures you enjoy amazing projected imagery, day after day, show after show.

Lifetime Illumination with DPI’s LED Displays

It is difficult to find a sector of the AV industry that isn’t excited about the potential of LED as a projection illumination source, and Digital Projection is committed to engineering the industry’s most advanced LED projectors. There is no color wheel involved in LED illuminated projection systems; rather, the LEDs pulse in sequence to generate color primaries. The pulsing is digitally controlled, and the duty cycle is optimized to create dramatically improved color gamut and saturation. Although not as bright as their lamp-illuminated counterparts in terms of sheer lumen, they are unmatched in terms of color performance.

The advantages of LED illumination include:

- Deep, Saturated Colors – up to 140% of the NTSC Color Gamut.
- Excellent Contrast via Dynamic Black – the LEDs can be instantly pulsed “off.”
- Enhanced Reliability – with the exception of cooling fans, there are no color wheels or other moving parts.
- Environmentally Friendly – no harmful substances like Mercury or Xenon.
- Low Cost of Ownership – typical LED life expectancy is up to 60,000 hours. For 99.9% of all applications the LED illumination module will never need to be replaced.
- As a result of the improved color saturation and contrast, LED illuminated projectors appear 25% - 50% brighter to our eyes than a single-chip, lamp-based projector employing a color wheel and producing similar measured lumines.

Precise Color Through ColorMax™

DPI’s advanced color calibration brings a new level of precision to large screen projection. All of our TITAN and LIGHTNING projectors are pre-aligned to a factory reference to assure consistent color performance straight out of the box. For more specific color alignment within the venue, the user has the ability to adjust color temperature, as well as the highlights and shadows of individual colors, on both a global and per source level. Given the depth of adjustment handles, DPI’s 3-chip DLP projectors can be quickly benchmarked for precise color alignment.

The majority of our models also include Enhanced Seven Point Colorimetry, a derivative of the digital cinema technology that DPI helped pioneer over the past decade. Enhanced Seven Point Colorimetry provides control over the displayed gamut as well as the individual tones of red, green, blue, cyan, magenta, yellow and white, via presets or user input of programmable target color coordinates.

In addition to Enhanced Seven Point Colorimetry, all DPI projectors offer an extensive set of Gamma adjustments for image optimization in various environments. User-friendly Gamma presets that address popular applications are included.

Real world colors come to life with ColorMax™ – brought to you exclusively by Digital Projection.
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ILM & TheaterScope System

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Ian Calderon, director of digital initiatives, The Sundance Institute"

"To create the ceiling assembly at the Oscars, the projectors were one of the first elements to be installed, going in 20 days before the show. Once installed, they were nearly impossible to access. We depend upon DPI’s projectors to deliver performance and reliability that lives up to our expectations, and we are very happy with the results again this year.

Frank McMahon, President, Sanovu, Inc."

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Ray Barza, CEO Entertainment Technologies"

"With Digital Projection we are able to deliver to our clients the best picture available at any price point and a level of reliability unheard of in high-end projectors.

Jason Brown, Project Manager, Audio Advisors"

"Long-term business relationships are solidified with cooperative and outstanding service beyond the scale, which your team has exhibited time and time again. Your staff’s technical knowledge is a testament to your company’s leadership in the A/V industry.

Jon Whitwell, VP Operations, Baker Audio"

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Mark Steeles, Technical Director, Tribeca Film Festival"

Twenty-four DP LIGHTNING displays present a dazzling 500 foot image in Dubai

Image courtesy of Louise Stickland

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Image courtesy of Dallas Extreme

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- SUPERIOR BRIGHTNESS
- ASTONISHING COLOR DEPTH
- STELLAR DYNAMIC RANGE

LEGENDARY ENTERTAINMENT