A Company Built on Innovation

Digital Projection International (DPI) was founded with one key objective; to innovate the projection technology of the future in order to advance the capabilities of large-screen displays. Since our company first took on this challenge, we have worked closely with our customers to assure our products create the most precise imagery possible within every application.

The paradigm shift to digital projection technology began in 1987, when DPI and Texas Instruments joined forces to develop the technologies surrounding the Digital Micromirror Device™ for large-venue projection applications. After ten years of groundbreaking research and technical innovation, Digital Projection introduced the world’s first 3-chip DLP® projection systems in 1997, thus ushering in a new era of digital imaging.

As testimony to the revolutionary nature of our products, Digital Projection was honored in 1998 with two Emmy® Awards for Outstanding Achievement in Engineering Development. We remain the first and only projector manufacturer to win this coveted award.

Simulation-Specific Projector Line

DPI recognizes that training needs and budget constraints are equally important considerations when choosing a projection solution. With this in mind, DPI offers a wide range of projectors suited to match nearly any budget or technical need. Company-wide, DPI excels at working directly with system integrators to provide the ideal projection display for any training application.

DPI projectors feature an extensive array of optional and installed capabilities for simulation and multi-channel display needs:

- 4K/WQXGA/WUXGA/1080p Lifetime Illumination™ LED illuminated models
- 4K/WUXGA Lifetime Illumination™ LASER illuminated models
- No mounting restrictions on LED, LASER, and certain lamped projectors
- Fast Frame blur reduction options on many models
- 120 Hz stereoscopic display in 1-chip and 3-chip DLP models
- NVG stimulation support on select lamp and LED projectors
- Ultra-Contrast projectors for exceptional dark area and shadow detail
- Controllable Dimming support on select projector models
- ColorMax™ calibration for superb projector-to-projector color accuracy
- ColorMax™ on-site or in-house color match services available
- MultiBlend™ internal edge blending option
- FusionExpress™ geometry distortion, standard in many models
- FUSION external warp and blend capabilities option
- Trigger control for 3rd party options
- Wide range of lenses
- Compatible with a variety of 3rd party automatic alignment systems

With these advanced capabilities, DPI’s products provide the tools to deliver a compliant display system for the most challenging simulation applications.

As an innovator of DLP projection, every DPI display offers the proven stability and performance of DLP technology. Projection displays incorporating DLP offer a system integrator numerous advantages, including:

- Limited consumables, reducing cost of ownership and maintenance.
- 20,000 hour laser Lifetime Illumination™ projectors.
- 60,000+ hours LED Lifetime Illumination™ projectors.
- REC2020 color with 3-chip DLP LED.
- Remarkable color and luminance uniformity — a key performance factor when projectors are configured side-by-side in a multi-channel display. DLP’s uniformity allows for better color matching and better edge blend transitions.
Budget-Friendly Projectors

For high volume programs such as driver trainers, small arms training and convoy trainers, Digital Projection offers a wide range of projection displays that can be supported for many years. Look to our M-Vision, E-Vision, and iVision product lines for high-value, high-performance solutions. For applications demanding the industry’s highest performance projectors with high brightness, high color depth, contrast and resolution options, look to our dVision, HIGHlite, TITAN, and INSIGHT projector lines.

4:3 Mode for Legacy Screen Systems

Today’s projectors are meant for wider screen shapes, unlike the more square 4:3 screens found on legacy display systems. DPI can provide cost effective replacement projector solutions for those 4:3 aspect ratio legacy screens providing up to 1600 x 1200 pixels or down to 1400 x 1050 pixels to fill the more square screen shape of those older display systems. Contact simulation@digitalprojection.com to learn more.

Lifetime Illumination Displays

DPI’s Lifetime Illumination Display projectors offer class-leading brightness, minimal maintenance, minimal cost of ownership, mounting flexibility, and maximum color saturation. Look to our array of solid state illuminated projectors, offered in resolutions of 4K (4096 x 2160), WQXGA (2560x1600), WUXGA (1920x1200), and 1080p (1920x1080) which include entry-level projectors, as well as sophisticated models featuring NVG and smear reduction.

Peripheral

Edge Blending, Geometry Distortion, and Projector System Control

For multi-channel projector systems that require a method of mapping the image to non-flat screens, or the ability to create one seamless image from multiple projectors, Digital Projection offers both projector internal or projector external solutions to fit your needs.

FusionExpress™ and MultiBlend™ are built-in geometry distortion and soft-edge blending real-time controls for mapping the image to non-flat screen surfaces. For system designs that require an external solution for geometry and edge blending, Digital Projection offers the FUSION MD and Fusion 3D Processors – highly capable warp and blend solutions that can be utilized with any DPI projector. FUSION MD processors provide class leading warp and blend for projectors up to WUXGA resolution, while FUSION 3D processors can support projectors up to WQXGA resolution, or frame rates up to 120 Hz up to WUXGA resolution. Both FUSION processors include FusionNet, DP’s intuitive control application, providing sophisticated warping, blending, and projector control for each projector in the display system. For auto alignment, contact us to learn about our partners offering one-touch alignment.

Dome Lenses

Full Dome and Truncated Dome lenses available for INSIGHT 4K Series, HIGHlite Series, TITAN Series, and dVision Series of projectors. For more dome options or more info, contact simulation@digitalprojection.com.

Mounting Hardware

Mounts and frames for all projectors offer precise adjustment for yaw, pitch, and tilt.
Solid State Colors

Colors Better Than a Flat Panel
Do you know what color space your projectors are capable of reproducing? Our LED projectors render better colors than any other projectors in the market. Databases are created on monitors with excellent color space, and your projector should be able to recreate the same color on your projection screen. The INSIGHT and TITAN LED can show over 75% of all the colors the human eye can perceive with REC2020 color versus the typical 35% of other projectors. The INSIGHT can also provide true 12-bit color via its display port inputs which will provide the highest bit depth the eye can perceive. Don’t accept that your projector display cannot look as vivid as your flat panel monitor display.

![Color space of LED Projectors from Digital Projection compared to HDTV and UHDTV (4K) color.](image1)

Solid State Color
Lamp Color

Solid state colors (above) benefit from the Helmholtz-Kohlrausch effect in that saturated colors appear brighter than less saturated colors like lamp or bulb based colors.

Service

Shipment
Most projector products and peripherals ship 1 to 5 weeks from order date. Most consumables and service items in stock.

Warranty
- 3-years for all products employed in standard use applications.
- 3-years for Lifetime Illumination products also includes light source.
- 5-years of support typical after End-Of-Life announcement.
- Extended warranties available on all products.

North America Support
- Call 770-420-1350 for any support needs.
- Application Support Group for pre-sale installation questions (application.support@digitalprojection.com).
- Technical Support Group for post-sale service needs (techsupport@digitalprojection.com).
- Emergency tech support available 24/7: Call 770-420-1354.
- Inside Sales Group for your post-sale commercial needs.
- Full-service and repair facility on premises for all products.
- QC check of products prior to shipment.
- High stocking level of projectors, consumables and parts.
- Order replacement lamps online at: www.digitalprojectionstore.com.
- For any new or upgrade needs, contact simulation@digitalprojection.com.

Field Engineer Installation Support Available
- Pre-shipment color calibration to color-match projectors.
- Optional service loaner program.
- Lamp lease program -- locks down a fixed cost for lamp expenses over the life of the system, based on the application and usage profile.

Worldwide Support
Digital Projection is based in Manchester, England and has offices in the USA, Europe, Singapore, India, Japan, Australia, and China.

Business Size
Digital Projection is a manufacturer and distributor of projector products and peripherals and is classified as a small business.

ITAR
At the time of publication, all employees of Digital Projection Inc. are US Citizens.
Projectors for Every Application

We recognize that training requirements and budget constraints drive your projector selection for your display system. This is specifically why Digital Projection offers a wide range of projectors that will fit almost any budget or technical challenge. We can work with you to identify products that best suit your applications. Additionally, we offer projectors that can be color matched on site or prior to shipment, and other simulation friendly options like smear reduction, IR NVG stimulation, high contrast ratios, high resolution, motion compatibility, portrait mode orientation, edge blending, geometry distortion, automatic alignment, and more. Contact simulation@digitalprojection.com or visit www.digitalprojection.com to learn more.

3-Chip DLP

INSIGHT Series:
4K (4096 x 2160) Native
Resolution Illumination Systems:
LED or LASER or LAMP

TITAN Series:
WUXGA (1920 x 1200) Native
Resolution Illumination Systems:
LED or LAMP

HIGHlite Series:
WUXGA (1920 x 1200) Native
Resolution Illumination Systems:
LASER or LAMP

1-Chip DLP

iVision 50 Series:
Up to WQXGA 2560 x 1600 Native
Illumination Systems: LAMP

dVision Series:
Up to WQXGA (2560 x 1600) Native
Illumination Systems: LED or LAMP

M-Vision Series:
Up to WUXGA (1920 x 1200) Native
Illumination Systems: LED or LAMP

E-Vision Series:
Up to WUXGA (1920 x 1200) Native
Illumination Systems: LAMP
Kerrigan Media International (KMI) and Military Training Technology (MT2) recognized Digital Projection as one of the 2014 Top Simulation & Training Companies. The “Top Simulation & Training Companies” is an unranked listing of companies that have made a significant impact on the military training industry across the spectrum of technologies and services- serious gaming, live training, constructive simulation, modeling, virtual simulation and others.

Digital Projection’s inclusion reflects the growing reputation of its reliable projector products for simulation applications and its wide range of solid state illuminated products ranging in resolution from 4K to 1080p. The list appears in the September 2014 issue of the Military Training Technology publication.

Each year, Military Training Technology reviews hundreds of candidate companies’ submissions for inclusion on the list. The editorial board and a panel of independent experts then select winners based on criterion that include total military sales, end-user feedback, innovations and need for the solution.

View the 2014 winners:
http://www.kmimedia.com/mt2dir2014/

PROVEN PROJECTOR CAPABILITIES

- **Flight Simulation**
  - Level D qualified M-Vision LED and dVision LED
- **ATC**
  - Tower Simulator qualified M-Vision LED
- **Call For Fire**
  - JTAC qualified M-Vision and iVision
- **Maritime Simulation**
  - Class A FMB qualified M-Vision, E-Vision, HIGHlite and TITAN

- **Small Arms Trainers**
  - EST qualified M-Vision and E-Vision
- **Planetarium**
  - Dome qualified INSIGHT, HIGHlite, M-Vision, TITAN, and dVision
- **Vehicle Simulation**
  - Sim qualified TITAN, iVision, E-Vision and more

Special thanks to our customers who envision and create amazing applications around the world.
Front cover images (left to right, top to bottom) courtesy of: Air Force Research Laboratory • USMC • IDSI • Applied Visual Communications (AVC) • Electric Picture

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