The world’s highest resolution active stereoscopic single chip DLP® projector.
The projectiondesign professional series of projectors are high resolution, high performance products made and conceived especially for graphically challenging applications.

Our number one priority is image quality and operational reliability. All professional series projectors are available with 24/7 operation warranties, and a wide range of configuration options to ensure the best possible application fit and customer satisfaction.

Revolutionising 3D imaging

Understanding that missing out on even the smallest of details could cause critical errors for surgeons or cost oil & gas companies millions, projectiondesign takes 3D imaging to a whole new level. The new F35 AS3D is the world’s highest resolution single chip 3D DLP® projector at up to full 1920 x 1200 pixel resolution. No interlacing or other picture compression technologies. Said simply, it is the only single chip DLP projector that actually keeps its high resolution in 3D, displaying even the most graphically challenging and complex applications in stunning 3D.

“3D that doesn’t make me nauseous.
projectiondesign’s preview of its upcoming F35 AS3D series projectors underscored the fact that if you’re going to do it, do it right. No interlacing. Full 1080p or 1920x1200. The 3D effect was spectacular.”

– Brad Grimes, InfoComm International

Technologies that halve frame rate and bandwidth in 3D

F35 AS3D with full 120Hz frame rate and full 330MHz bandwidth in 3D
How does the F35 AS3D benefit you?

- Accurate visual 3D gives better confidence in decision making
- Faster and more complete comprehension of 3D data enhances overall situational awareness
- High quality 3D visualisation encourages interaction
- A more effective teaching and collaboration tool with high resolution giving detailed precision imaging
- Ease to use features saves time and money
- Getting the performance of two projectors in a single lens solution eliminates potential technical flaws, and provides a more stable image
- Integrates with existing infrastructure adding benefits to other systems
With its supreme quality, the F35 AS3D is designed for the demanding professional user requiring state-of-the-art imaging for complex and graphically challenging applications, that is intuitive and easy to use.

F35 AS3D is perfect for applications such as:
- scientific visualisation
- graphics simulation
- medical or chemicals design and imaging
- physics research and modelling
- oil and gas exploration
- motion simulators
- virtual reality
- training
- large public displays
- post production
- collaboration rooms

markets and applications

Not only does the F35 AS3D set a new industry standard in 3D with the world’s highest quality images, but F35 AS3D also gives you a depth to your picture unmatched by any other with its exceptional colour contrast. Combined with a user friendly interface and set up, designed for 24/7 operation warranted for five years, this is the ultimate tool that gives you peace of mind.

A small footprint means it works anywhere

Nearly half the size and weight of its nearest competitor, the F35 AS3D is a powerful and robust projector in a small chassis. Along with a wide range of lenses and rotation options, it has close to unlimited installation flexibility, whether you want ultra-wide on axis or off axis long throw, or even rear projection, perfect for installations in everything from CAVEs, collaboration rooms and production studios, as well as large venue installations.

Flexibility means endless possibilities

Many disciplines require simultaneous access to a multitude of sources to make the best possible decisions while still providing the opportunity for participant interaction. With the F35 AS3D you can display multiple sources simultaneously in both 2D and 3D, and easily switch between the two, without losing accuracy or brightness. This significantly enhances the overall situational awareness and helps you improve your decision making accuracy.

Adding to this, F35 AS3D has a comprehensive choice of inputs, including Dual Link DVI-D. Not only supporting DLP Link for a seamless 3D experience, it also supports IR, Infitec, and polarised technology. Integrating with your existing infrastructure, adding benefits to other systems, the F35 AS3D gives you endless possibilities to choose what is right for your application, and save money where you see fit.
The projector that gives you peace of mind

Easy to use means more time to do what’s important for you

The lack of attention for the end user is still a great challenge. Furthermore, continuous experience of technical flaws eats time out of daily tasks. At projectiondesign we want you to focus on what you are good at. Our users are at the centre of all our development and as such you should be assured that using our products is easy and intuitive, and will add benefits to your complex tasks.

Built for the future means long lasting

The F35 AS3D uses Linux operating system, which has proven to be the most reliable system of operation. It has a unique upgrade system easily executed via USB or even over the network. Just plug in and the upgrade happens automatically. To you this means saving time, money, and resources in the long run.

Low total cost of ownership means optimised return on investment

All projectiondesign professional projectors offer true 24/7 operation with optional limited warranties for up to five years. Selecting only the finest quality components down to the very details, we have rigorously tested that our projectors can withstand the abuse of time. We maintain this by controlling the whole manufacturing process in-house. To you this means reliability, stability, and low total cost of ownership.
RealColor™

RealColor is projectiondesign's unique and famous colour management calibration suite. With RealColor, it is possible to match any number of projectors for a perfect image match.

In order to secure perfect on-site calibration, each F35 AS3D projector is uniquely characterised during its manufacture. projectiondesign's colour matching options give the brightest possible image and optimised colour gamut for matching of projectors. This allows for an accurate reproduction of real object colours, not possible with competing technologies.

This is an extremely easy to do process, saving you time, money and not the least, frustration.

What RealColor gives

RealColor provides a unique and quick way to calibrate and set up perfect images for any number of projectors. RealColor can alter imagery by changing simple characteristics such as the colour temperature of the image – perfectly along the black body curve, or very complex parameters such as each colour's relative saturation and x/y coordinates. In fact, it is perfect to within 0.002 along all axes of measurement. RealColor works by mathematically calculating each colour independently.

Designed for multi-channel systems

With the unique colour matching and calibration tools in RealColor, the F35 AS3D is made for matching of images, edge blending and multi-channel installations, whether the process is done electronically in software, or by using hardware solutions. Very deep black levels and both black and white level uniformity, add to the impressive performance.

Furthermore, in complex stereo 3D installations, using one projector per channel simplifies the setup and reduces overall cost. You save more than half the time and money compared with passive technologies. Needing only half the units and cables, the installation is extensively simpler, and only half the equipment to administer.

PatentedDuArch™ architecture

The F35 AS3D projectors use our patented DuArch™ Dual Illumination architecture. DuArch increases brightness and performance from an optical system by utilising two lamps, two colour wheels, and two complete sets of illumination optics. Additionally, the DuArch optical architecture in the F35 AS3D series allows hot swapping of lamps, meaning one lamp can be replaced while the other is still running, enabling true 24/7 operation, without the need to turn off the projector to change lamps. Unlike some competition, where both lamps are individually powered and mechanically disconnected from each other.
Real life view – how do we accomplish that?

The projectiondesign F35 AS3D does not compromise the picture quality. Unlike other projectors in the market utilising various technologies that actually reduce the resolution in 3D mode, we ensure users get fully uncompressed 3D at full 120 frames per seconds (see illustration right). To you that means an exceptional real life view unmatched by any other projector, offering possibilities indispensable for those working on a micro level of interventions, or those who simply requires the best possible image.

120 Hz refresh rate

With its high refresh rate of up to 120Hz full frame, you get twice the amount of pictures per second, eliminating judder and motion blur with fast-motion content, perfect for installations like medical, simulation and training.

DLP® technology – chosen for reliability

Chosen for its proven reliability and performance under a wide range of imaging environments, the F35 AS3D projector uses single chip DLP® technology from Texas Instruments®. Used in various military, education, simulation and training applications today, it is recognized for its sharp image, its long term stability of colour as well as consistent performance.

The projectiondesign F35 AS3D with full resolution 3D (as illustrated above), compared with conventional technologies used in 3D, compressing the output.
Scientific Visualisation

To effectively understand and make use of the vast amount of information being produced across disciplines is a great challenge. projectiondesign's F35 AS3D enables the interactive exploration of large datasets, through a small, yet extremely powerful projector that are easy to use and provide a perfectly colour-matched and seamless image.

Visitor Attractions

Offering a "unique selling proposition" and the "WOW" factor to attract visitors are one of the key ingredients for success. However, to build attractions that reduce operating costs to a minimum is also of utmost concern in order to stay competitive. The F35 AS3D is built for multi-purpose use as well as with low total cost of ownership in mind. With its compact design and switch between 2D and 3D, it can just as well be used under corporate hospitality and special events, as well as for the "normal" business of the attraction. Designed for true 24/7 operation means you never have to shut down your attraction for maintenance purposes.

Training and Simulation

Handling errors and uncertainties through real life training is not only cost effective, but also of utmost importance in order to equip a person for the most challenging tasks that are either impossible or too dangerous to replicate in real life. projectiondesign’s F35 AS3D is the highest resolution single chip DLP projector with 120Hz full frame and 330 MHz bandwidth, which means no motion smear, no judder - just pure quality. Put simply, the best solution for your training and simulation environment.
Collaboration Room

The lack of attention for the customer is still a great challenge. Businesses find solutions complex and enterprises are still working on the technical challenges. The F35 AS3D is a reliable and flexible projector. It integrates with your existing infrastructure, adding benefits to others. Switch from 2D to 3D to perfectly visualize your model or structure giving you a faster and more complete comprehension, which again allows for better and faster decision making. Always having the end user in mind, we ensure that even the non tech-savvy users find it intuitive and easy to use.

Virtual Reality

Keeping system costs down and improving long term sustainability of a system are of high importance in virtual reality applications. The F35 AS3D is a reliable projector warranted for 24/7 operation, which means you can trust the projector to work in the long run, keeping maintenance costs down. Furthermore, the time it takes to build virtual spaces is decreased with the F35 AS3D because it is easy to set up and use, and integrates with your existing infrastructure.
# Technical specifications

<table>
<thead>
<tr>
<th>Projector</th>
<th>DLP® digital projector</th>
</tr>
</thead>
<tbody>
<tr>
<td>Display technology</td>
<td>single chip DMD™ (Digital Micromirror Device™)</td>
</tr>
<tr>
<td>Concept</td>
<td>sealed, all-glass optical design with optional lens shift</td>
</tr>
<tr>
<td>DPLLink™ and IR 3D glasses</td>
<td></td>
</tr>
<tr>
<td>Resolution</td>
<td>1920 x 1200</td>
</tr>
<tr>
<td>Brightness</td>
<td>High Brightness</td>
</tr>
<tr>
<td>Graphics</td>
<td>7500</td>
</tr>
<tr>
<td>VizSim Bright</td>
<td>4500</td>
</tr>
<tr>
<td>VizSim</td>
<td>4000</td>
</tr>
<tr>
<td>Contrast Ratio</td>
<td>up to 7500:1 (on/off)</td>
</tr>
<tr>
<td>Colours</td>
<td>&gt;1 billion displayable</td>
</tr>
<tr>
<td>Colour management accuracy</td>
<td>±0.002 on x, y, z axis with VizSim colour wheel</td>
</tr>
<tr>
<td>Input signal compatibility</td>
<td>All digital I/O</td>
</tr>
<tr>
<td>Bandwidth</td>
<td>up to 2560 x 1600 pixels</td>
</tr>
<tr>
<td>Optics</td>
<td>330 MHz Dual Link DVI</td>
</tr>
<tr>
<td>Bandwidth</td>
<td>165 MHz HDMI</td>
</tr>
<tr>
<td>Lenses</td>
<td>ultra wide angle</td>
</tr>
<tr>
<td>Ultra wide angle zoom</td>
<td>0.75 : 1</td>
</tr>
<tr>
<td>Ultra wide angle zoom</td>
<td>EN42 [503-0223-00]</td>
</tr>
<tr>
<td>Ultra wide angle zoom</td>
<td>0.5 - 10m</td>
</tr>
<tr>
<td>Lens iris control</td>
<td>mechanical</td>
</tr>
<tr>
<td>Iris control</td>
<td>F/2.1 – 6.5 for all lenses, continuously adjustable</td>
</tr>
<tr>
<td>Colour Wheel Options</td>
<td>visualization &amp; simulation (RGBRGB)</td>
</tr>
<tr>
<td>Colour Wheel Options</td>
<td>visualization &amp; simulation bright (RGBRGB)</td>
</tr>
<tr>
<td>Graphs display (RWGB)</td>
<td></td>
</tr>
<tr>
<td>Lamp</td>
<td>high brightness display [PCWYBG]</td>
</tr>
<tr>
<td>Lamp Life</td>
<td>2000 hrs (5000 hrs in eco relay mode)</td>
</tr>
<tr>
<td>Replacement Lamp Part No.</td>
<td>400-0500-00</td>
</tr>
<tr>
<td>Connectivity</td>
<td>computer</td>
</tr>
<tr>
<td>Computer</td>
<td>2x HDMI 1.3a</td>
</tr>
<tr>
<td>Control and Communication</td>
<td>2x Dual-Link DVI-D</td>
</tr>
<tr>
<td>RS232 9-pin DSub</td>
<td></td>
</tr>
<tr>
<td>USB (A + B)</td>
<td></td>
</tr>
<tr>
<td>3.5mm mini jack triggers (programmable)</td>
<td></td>
</tr>
<tr>
<td>Frame Lock Sync (BNC)</td>
<td></td>
</tr>
<tr>
<td>Keypad, direct view LED</td>
<td></td>
</tr>
<tr>
<td>3D sync (3 pin DIN)</td>
<td></td>
</tr>
<tr>
<td>Supplied Accessories</td>
<td>cables</td>
</tr>
<tr>
<td>4m power cord (country dependant)</td>
<td></td>
</tr>
<tr>
<td>Basic cable kit</td>
<td></td>
</tr>
<tr>
<td>Other</td>
<td>backlit IR remote control, ceiling mount cable cover</td>
</tr>
<tr>
<td>Product Documentation</td>
<td></td>
</tr>
<tr>
<td>General</td>
<td>dimensions (dwh)</td>
</tr>
<tr>
<td>Dimensions (dwh)</td>
<td>376 x 510 x 223 mm (ex. lens)</td>
</tr>
<tr>
<td>Weight</td>
<td>about 12.6 kg (ex. lens)</td>
</tr>
<tr>
<td>Environmental</td>
<td>RoHS, WEEE, REACH</td>
</tr>
<tr>
<td>Vibration and Shock</td>
<td>Continuous sweep vibration test</td>
</tr>
<tr>
<td>Power Requirements</td>
<td>100 – 240 VAC, 8.2A, 50/60 Hz, +/- 10%</td>
</tr>
<tr>
<td>Power Requirements</td>
<td>&lt;815W at 100V power consumption</td>
</tr>
<tr>
<td>Heat Dissipation</td>
<td>&lt;2750 BTU/hr</td>
</tr>
<tr>
<td>Conformances</td>
<td>CE, CSA, C/UL, FCC Class A, CCC</td>
</tr>
<tr>
<td>Security</td>
<td>4-digit PIN code, PUK code</td>
</tr>
<tr>
<td>Operating Temperature</td>
<td>0 – 40ºC / 32 – 104ºF, 0 – 1500 m</td>
</tr>
<tr>
<td>Operating Temperature</td>
<td>0 – 35ºC / 32 – 95ºF, 1500 – 3000 m</td>
</tr>
<tr>
<td>Operating and Storage</td>
<td>10 – 90% RH</td>
</tr>
<tr>
<td>Available Colours</td>
<td>black</td>
</tr>
<tr>
<td>Warranties</td>
<td>Standard Limited Warranty: 3 years including 24/7 operation. 500 hours or 90 days on lamp, whichever comes first. Up to 5 years total extended warranty available. Conditions apply.</td>
</tr>
</tbody>
</table>
Your environmentally friendly choice

Projectors consume the same amount of power independently of screen size. This means for large displays, projectors are your environmentally friendly choice. The power consumption of regular TV's rapidly increases with increased screen size. Every time you double the inch, you use 4 times as much power! To illustrate: A typical 50" 3D plasma screen will consume approximately 250W. Increasing the size to a 100" 3D plasma screen it will consume a whopping 1000W. Comparing this with a projector, which consumes approximately 350 W regardless of your image size, you save a considerable amount of energy. Therefore projectors are your environmentally friendly choice.

Wide range of projection lenses

Multiple lens options and very wide lens shift adjustment ranges allow for flexibility in installations.

Rotation

The F35 A53D can be rotated 360 degrees around the side to side axis, and for instance project straight down or up, as well as +25/-15 degrees side to side.
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