

expertise in civil and military training
and simulation applications

training & simulation

Visual Display Systems in simulation

technical expertise and knowhow

technology and products

2D and 3D modelling

Designed and manufactured in Fredrikstad, Norway.

high performance projectors in training and simulation

projectors are widely used in training and simulation installations because they offer very distinct performance and integration advantages over direct view displays.

The only way to make truly immersive curved screen displays, projectors are key components to gain efficiency and return on investment in training systems.

projectiondesign projectors are designed to be mounted on motion platforms, and to provide ultra high resolution, ruggedness, and seamless integration into a variety of applications. Their small size is a key enabler for many installations, saving on space and making possible the most advanced systems imaginable.

who is projectiondesign?

projectiondesign is located in Fredrikstad, Norway, and is committed to developing purpose built, high performance projectors for a multitude of challenging markets.

Our products reflect and share the same philosophy – conceived to offer the best possible performance for its intended application and a better price-to-performance ratio than any competing product offering.

Our dedicated staff of personnel have life long experience in the development and manufacture of projectors, from optomechanical concepts and design studies, through system solution and industrial design, to the final software and electronics hardware integration. Everybody at projectiondesign works towards a common goal – to create the best possible high performance projectors and products.



Photos: Lund University (top left), domeprojection.com (above left), projectiondesign (top, above right).



references and use

McGill University, Montreal, Canada, simulates environments in their CAREN system for rehabilitation training.

Photo: MOTEK Medical, The Netherlands

www.projectiondesign.com

use and application

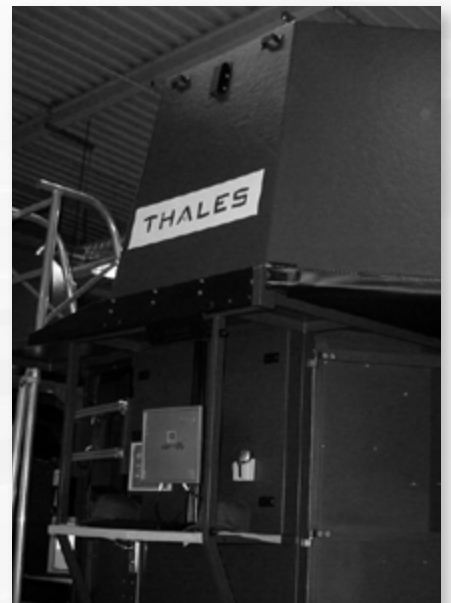
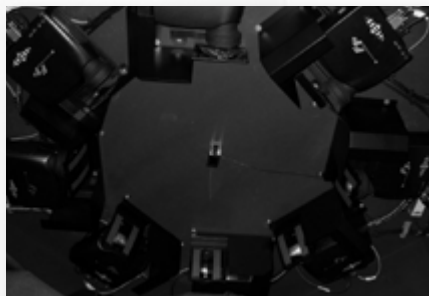
The French Navy trains in submarine development and design – in 3D for an increased sense of reality.

Photo: Immersion, France



training and simulation

Undergoing exercises in a simulated environment is a key enabler for any military and civil operation to gain a higher understanding for the effects and influence that a situation has on human beings. The result is better performing, and highly trained personnel who are prepared for any situation or challenge. From combat training to vehicle operation – be it flight or ground operated – simulated environments and training situations are less risky, and much more cost effective than bringing people and personnel into live operations.



Photos: The Royal Dutch Army uses hundreds of projectiondesign projectors in their TACTIS (Tactical Indoor Simulator), in which personnel is trained on the Leopard 2A6 combat vehicle.

technical expertise and performance

Design and implementation

projectiondesign's goal is to design and manufacture projectors that are fit for all types of training and simulation applications.

Our focus is on creating highly accurate imaging engines, in the form of small, and easy to integrate physical packages.

Image accuracy

One of our greatest assets is the unmatched accuracy in image quality and display. Each projector model will project images with the same accuracy, but with provisions for different installation requirements and screen sizes.

Colour matching and accuracy

projectiondesign projectors feature our own and unique RealColor™ colour management suite. It enables projectors to be matched in colours, gain, and brightness to within 0.002 points along the x, y, and z axes. Using the ProNet software suite, this can be performed automatically, giving minimised downtime when calibrating.

DLP® technology

projectiondesign works closely as a strategic technology partner with Texas Instruments®, the creator and developer of DLP technology. We are one of a select few companies to work closely with them on technology development and new product introductions. We have chosen DLP technology for the unmatched reliability, and longevity of the device.

High performance optics

projectiondesign designs every optical component in-house and works with industry leaders to manufacture to our exacting standards. Each projection lens has a certificate for vital performance data.



Illustration photos: projectiondesign AS

“ ..we can easily set color coordinates in the projectiondesign projectors thanks to its Realcolor™ calibration software system. This is a very useful timesaver for a simulation setup.”

Martin van Driest, Director of Pro Systems, The Netherlands



The London Port Authority uses five F22 sx+ projectors for visualizing the Thames river.

Photo: Port of London Authority

technical expertise and performance

LED and lamp illumination options

projectiondesign projectors feature LED or traditional lamp based illumination depending on model and requirement. LED provides an unmatched typical lifetime of up to 100,000 hours, with minimal re-calibration or maintenance required.

Geometry correction and blending

projectiondesign provides most components required for building a complete visual training and simulation system, including the very important geometry correction, and blending components. These processors integrate seamlessly with our projectors, and feature patented Black Level Matching, per-pixel colour management, and user selectable processing algorithms.

Proven performance

Thousands of projectiondesign projectors are in daily use in both military and civil training simulators across the globe. These range from arms and missiles training, crane operation in shipping, flight simulation and tactical exercises, formula one racing, and even large truck driving.



Danish FORCE technology's Maritime Industry uses 21 3-chip DLP projectors to realise their ship bridge simulators.

Photo: FORCE Technology

“ We are very grateful to projectiondesign not just for listening to our needs and tailoring their products to match our requirements, but also for providing so much help during the installation itself.

Peter K. Sørensen,
Head of department, training, ports and human factors,
FORCE Technology
Denmark



Illustration photos: projectiondesign AS

why choose projectiondesign?

- Full and complete dedication to our products and partners
- Unequalled expertise in high performance projector design and manufacture
- Very strong dedication to technical and application support
- Unmatched high performance, warranties and reliability
- Predictability in performance and continuity of display
- Wide range of products to fit a variety of needs and requirements
- Dedicated to only producing projectors and support systems

references and use

Personnel training and simulation using a total of 13 projectors for a single image.

Photo: Air Force Research Lab (AFRL) Mesa, AZ, USA.



head office

projectiondesign as
Habornveien 53
N-1630 Gamle Fredrikstad,
Norway
ph +47 69 30 45 50
fx +47 69 30 45 80
sales@projectiondesign.com

regional contacts

USA – Americas
projectiondesign LLC
295 North Street,
Teterboro, NJ 07608,
USA
ph +1 888 588 1024 fx +1 201 288 1034

UK and Ireland – UK, Ireland
Oxford, Chester,
United Kingdom
ph +44 7889 669336 / +44 751 528 1979 fx +47 69 30 45 80
uk_sales@projectiondesign.com

Germany – Germany, Austria, Switzerland
Stuttgart
ph +49 7153 958263
mo +49 (176) 2316 0345
fx +47 69 30 45 80
germany_sales@projectiondesign.com

Netherlands – Benelux region
Postbus 59
4190CB Geldermalsen, The Netherlands
ph +31 (0) 345753314
fx +31 (0) 345753314
benelux_sales@projectiondesign.com

Sweden – Sweden
Flöjelbergsgatan 7A
S-43137 Mölndal
Sweden
ph +46 705 253 510 fx +47 69 30 45 80

Italy – Italy, Iberica
Via Plinio 43,
I-20129 Milano (MI),
Italy
ph +39 02 45471864 / +34 91 1822769 fx +39 02 45471865

Poland – Central and Eastern Europe
Choszczno,
PL 73-200,
Poland

South Africa – Africa, Israel
1 Peterhof Close,
Hout Bay 7806,
South Africa
ph +27 21 79 00 018 fx +47 69 30 45 80

Singapore – Greater China, Taiwan, ASEAN
Block 161 Kallang Way,
#04-05 Kolam Ayer Industrial Estate,
Singapore 349247,
Singapore
ph +65 9621 7421 fx +47 69 30 45 80

India – SAARC Region
Mumbai,
India
ph +91 98 20 61 06 70 fx +47 69 30 45 80

Dubai – UAE and Middle East
PO Box 17633
LOB 15 Office 212
JAFZ,
Dubai
ph +9714 (4) 8872525 / mo +971 (0) 50 657 9827
fx +47 69 30 45 80