

PRO-SOFT 6

Advanced operating software
for laser projection systems

NEW

Customized to
your production
processes



With PRO-SOFT Basic, PRO-SOFT Precast, and PRO-SOFT Premium, LAP offers the right software variant for every application.

Modular by design

A software tailored to your needs

PRO-SOFT 6 is the comprehensive and user-friendly software solution from LAP that makes managing your laser projection tasks effortless.

It is available in three distinct variants: PRO-SOFT Basic, PRO-SOFT Precast, and PRO-SOFT Premium.

Each variant comes in either Singletasking (ST) or Multi-tasking (MT) versions, ensuring a perfect fit for your project's complexity. Embrace the unique features and benefits that PRO-SOFT 6 brings to your production processes.

- *Experience the new freedom of individual configuration options.*
- *Manage all projection steps with a click of the mouse, tablet, or remote control.*
- *Streamline your production processes through optimized workflows.*



Learn more
about PRO-SOFT
software



Efficient

With a single platform, you can organize your daily work routine easily and efficiently. The comprehensive software supports you in all phases, from work preparation and managing projections to documentation and quality assurance.

User-friendly

All screen tools are designed for ease of use and intuitive operation. The production staff is safely guided through all projection steps with easy-to-follow instructions, allowing operators to focus on the essentials. Training time for new employees is also reduced to a minimum.

Customizable

All software variants can be precisely configured for your specific applications. Whether for composite production, timber house construction, or the precast concrete industry – PRO-SOFT includes all the necessary functions to meet the requirements of modern industrial environments.

Flexible

Export your CAD data into common exchange formats. PRO-SOFT supports all common data formats used in the industry, such as DXF, IGES, HPGL as well as LPD and PLY. Optional import modules allow direct data handling in STEP and CATIA format.

Take your laser projection capabilities to the next level

In its latest iteration, PRO-SOFT boasts an expanded array of capabilities. This release seamlessly integrates all CAD-PRO Xpert laser projection system features and DTEC-PRO camera functions.

Each version empowers you to tailor the software's functionality to your production processes, ensuring maximum flexibility. Moreover, you can configure the user interface to align with your specific requirements.

Support of the CAD-PRO Xpert features

PRO-SOFT 6 is designed to seamlessly integrate the advanced CAD-PRO Xpert laser projector, setting new standards in laser projection. The modern software fully supports all the features of the powerful projector in a user-friendly way. With a single click, you can activate the boost function, multi-color projections, or the redundancy function, depending on the configuration of the laser projector. Enjoy outstanding projection results combined with maximum ease of use!



Click here for the CAD-PRO Xpert video

Enhanced workflows with Multitasking

All software versions are optionally available with multitasking capabilities, enabling you to handle multiple projection tasks simultaneously. This is particularly beneficial for complex projects, as it improves the efficiency of the laser projection system, leading to increased productivity and flexibility for production teams.

Intuitive user interface

The software provides various options to set up the desktop in a user-friendly manner, ensuring smooth workflows. For example, operators can freely position elements such as touchscreen windows and the control panel and hide functions that are not needed.



All software variants support the features of the CAD-PRO Xpert laser projector and all CAD-PRO models, as well as the DTEC-PRO camera system's features.

Individually adjustable projection speed

Does your production order require maximum projection accuracy? Or are you prioritizing a higher projection speed? The software allows users to adjust the projection speed autonomously and optimize the laser projection quality to the respective requirements. This will enable you to react flexibly to changing orders.

Fast and secure access to process data

The PRO-SOFT architecture provides secure access to your process data, which can be stored decentrally on a PC or centrally in the data network. With the 'Central process control,' tasks can be initiated at any workstation and seamlessly continued at another. Calibration and laser projection files are loaded automatically. Predefined processes ensure a consistent production process and constant product quality. Temporary local storage of the data offers protection against network outage.

Convenient browser-based help

LAP provides convenient browser-based help for your production teams. The context-sensitive help function offers brief explanations and links to the relevant topic in the manual. This enables the operator to access the appropriate chapter for the current work step directly. The embedded help is also accessible in the PRO-SOFT Configuration.

Maximum flexibility

Client/server architecture

The client/server function of the multitasking-capable PRO-SOFT offers a high degree of flexibility when configuring the system. Multiple client computers can be connected to the PRO-SOFT server, allowing different

operating concepts to control the system using PCs, tablets, or hand-held devices. This enables decentralized operation of the laser projection system, allowing it to be performed directly near the tool.



CAD-PRO Xpert laser projector

The laser projection system can be scaled from a single projector to multi-head systems with multiple projectors.



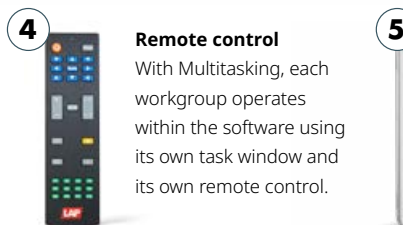
DTEC-PRO camera system

The modular design of the system allows DTEC-PRO cameras to be freely supplemented.



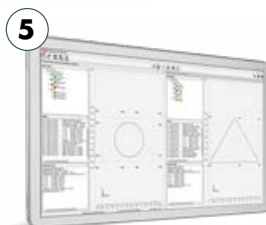
PC

As a multitasking operator station, the PC can be installed directly next to the tool, allowing the software to be operated from there.



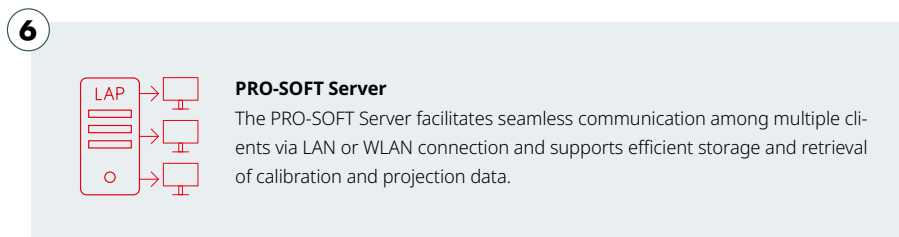
Remote control

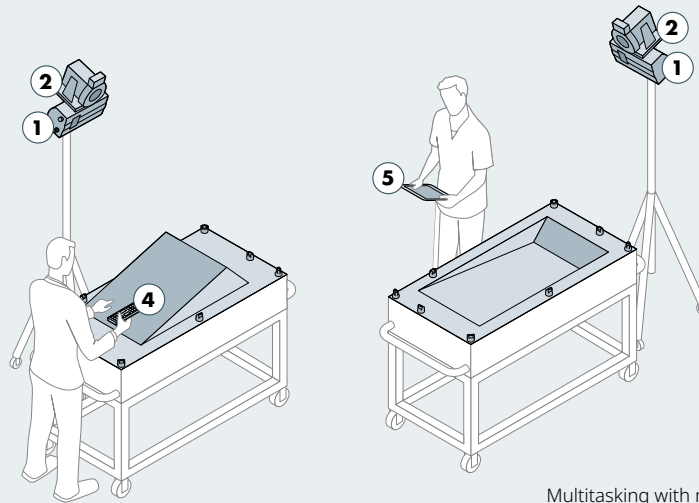
With Multitasking, each workgroup operates within the software using its own task window and its own remote control.



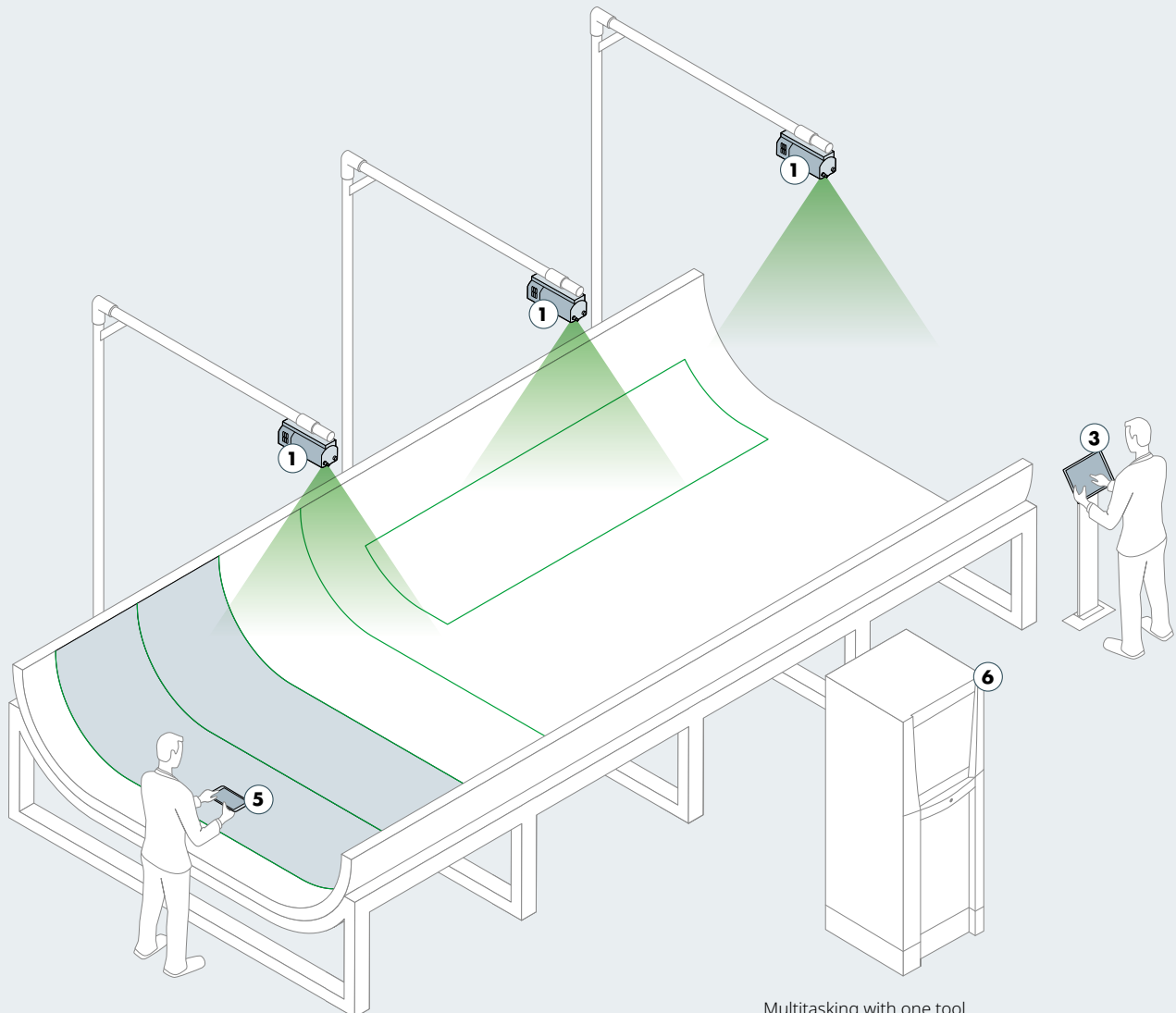
Tablet

Mobile devices such as tablets or handhelds provide production employees with a flexible interface, eliminating the need to walk to the PC.





Multitasking with multiple tools

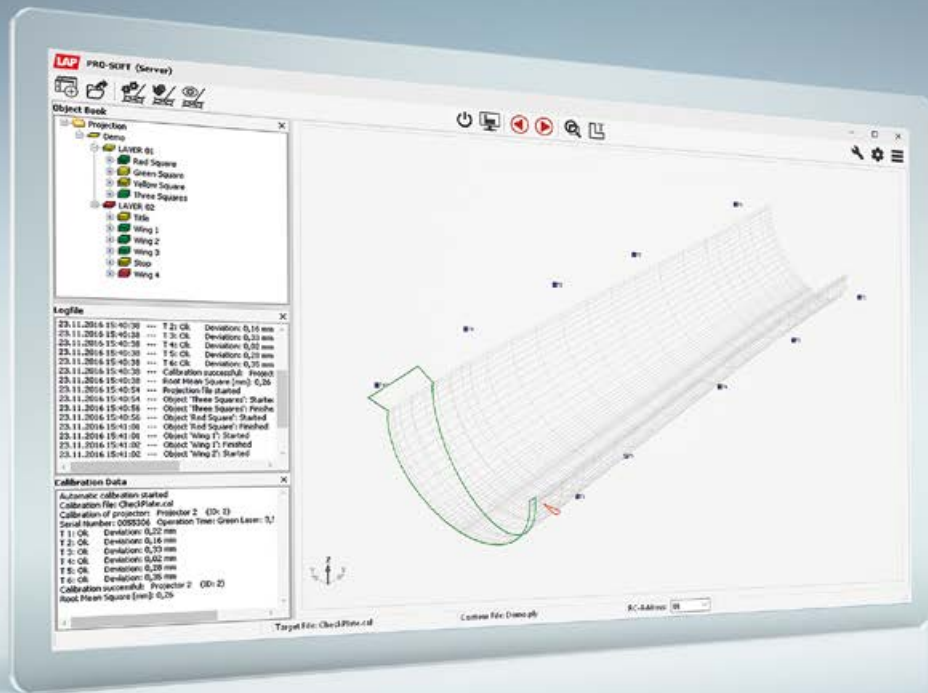


Multitasking with one tool

Multitasking

The PRO-SOFT's multitasking versions allows you to work with a single- or multiple-head system on several tools simultaneously and independently of one another. In addition, with multitasking, several workgroups can work

on one large tool simultaneously and separately from one another. The task can be run on various computers, ensuring increased process efficiency in your production.



Available as ST and MT

For 3D surfaces

PRO-SOFT Premium

PRO-SOFT Premium is the perfect option for projecting templates with multiple projectors onto 3D surfaces.

This software is specifically tailored to meet the demands of large-scale applications, such as composite layup processes in wind rotor blade production or the aerospace industry.

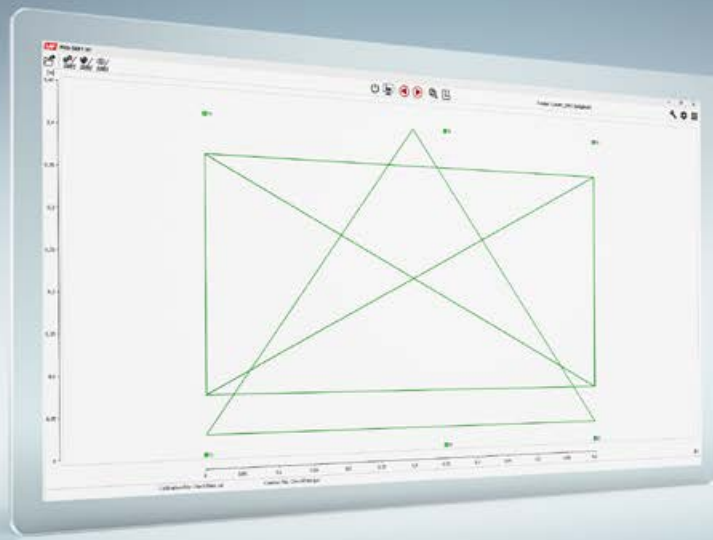
Supported file formats

- LPD, PLY, IGES, DXF, CSV
- Optional STEP and CATIA import modules
- Others on request

Special features

- Includes all features of PRO-SOFT Basic
- Projections possible in arbitrarily oriented coordinate systems
- Integrated editor to adjust and optimize projection files
- Two different working procedures supported:
 - The user loads the calibration and projection files.
 - An administrator defines all planned work steps in advance.
- Optional central process control:
 - Network-wide availability of process data
 - Protection against network outage through temporary local storage





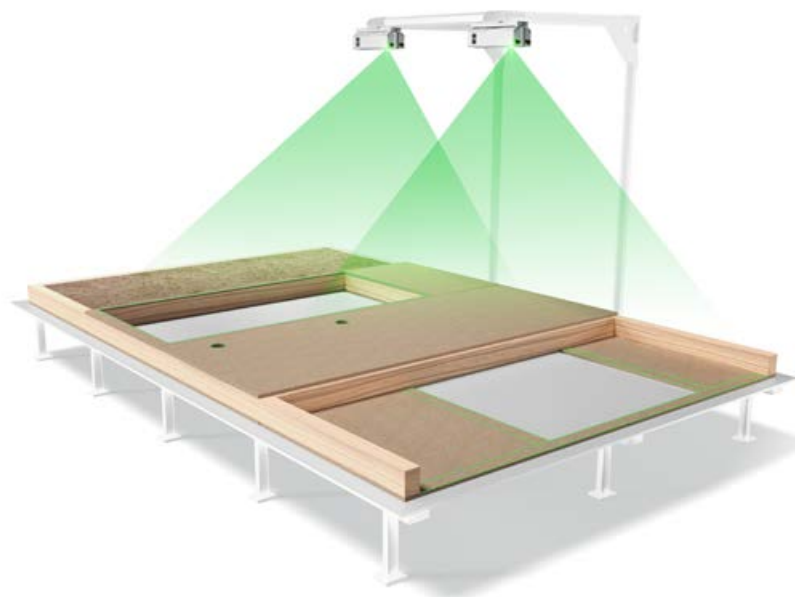
Available as ST and MT

For plane surfaces with height coordinates

PRO-SOFT Basic

PRO-SOFT Precast is the standard software for all work on a plane surface in combination with height coordinates. The software allows for manual adjustments of the projection's height level (Z-coordinates) and enables the creation of buttons in the toolbar for recurring height values.

Typical applications of the software include wood and stone processing, prefab homes and roof truss production, and precast concrete parts production.

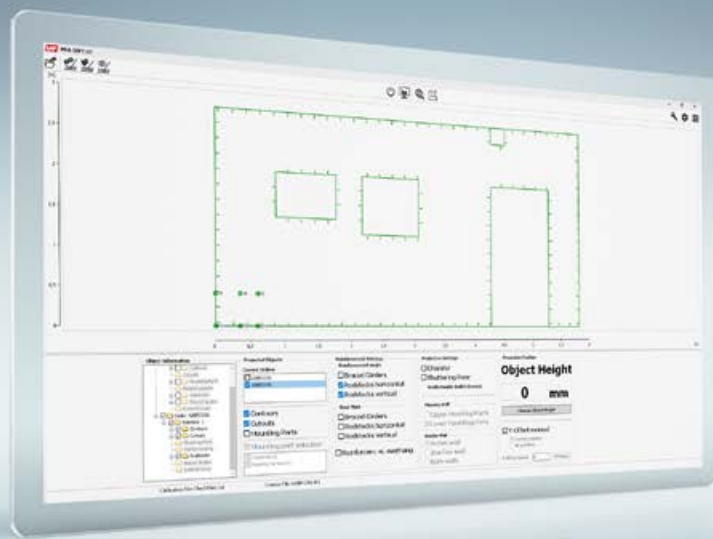


Special features

- Comprehensive options to adjust the projection in position and orientation
- Shortcut for individual height adjustment
- Configurable for projections on multiple work tables (Multi-Table function) and for different work-spaces on one large table (Multi-tasking)
- Touch screen support; control panel can be positioned freely

Supported file formats

- DXF, IGES, HPGL, LPD, CSV
- STEP and CATIA as optional import modules
- Other plotter and data formats on request



Available as ST and MT

With Unitechnik interface for concrete parts

PRO-SOFT Precast

This software variant has been optimized for users in the precast concrete industry. It allows you to import and display data in Unitechnik format. The Unitechnik controls are shown in the lower part of the screen.

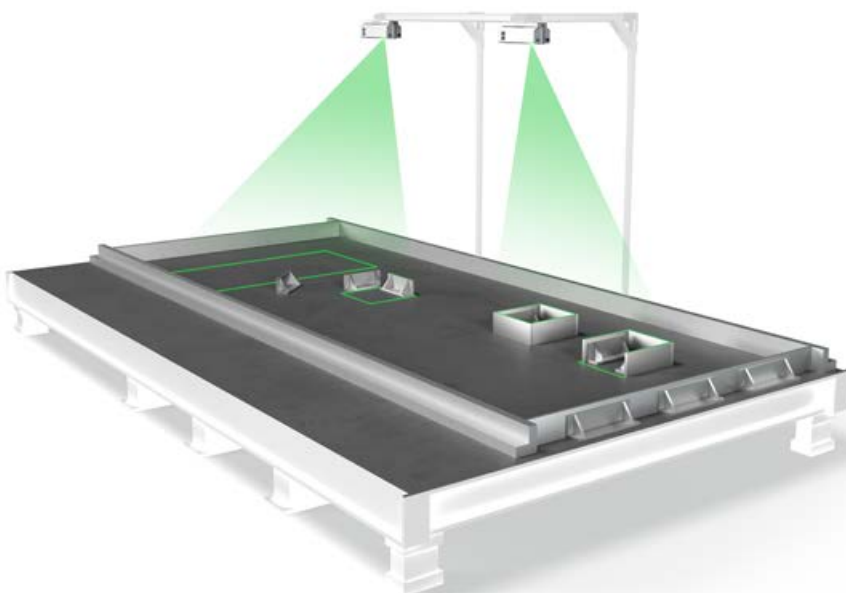
PRO-SOFT Precast offers extensive capabilities for defining the projection height of mounting parts and supports the production of double-wall and massive-wall elements. Additionally, it can show the positions of reinforcements.

Special features

- Optional Multitasking version
- Configurable control panel can be positioned freely, docking and undocking at the click of a mouse.
- Reference projection for semi-automated alignment of projections in factories without pallet centering (position correction)
- Full operation via remote control

Supported file formats

- Unitechnik 4.0–7.0
- UXML
- Compatible with all major master computer systems from Unitechnik, RIB SAA, Progress



Optimized workflows

From CAD data to laser projection

PRO-SOFT provides operators and administrators with all the core functions needed to operate your LAP laser projection system in a well structured manner. Manage your tasks with a sin-

gle software from importing CAD data to calibration, performing projections, and editing projection files, to saving images and generating reports.

Work preparation

Creating projection files

- Create projection files based on your CAD data from common CAD programs.
- For quick and straightforward projection file creation you can also use the Rhino 3D-plugin or simple Excel spreadsheets via CSV import.

Creating the calibration file

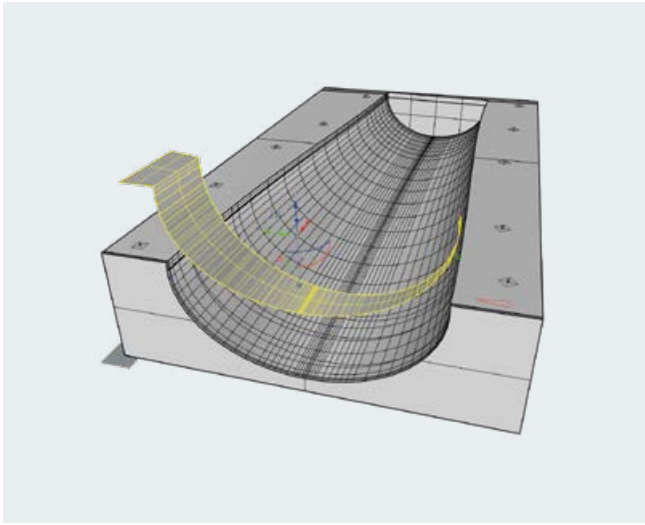
- PRO-SOFT generally requires a calibration file for each projection surface.
- Calibration files are created and edited using the user-friendly text editor.
- Basic calibration establishes the mapping between the laser projector and the targets.
- After initial basic calibration, the laser projection system is ready to start. Moreover, automatic and manual calibration can be performed anytime during the production process.

Simulation

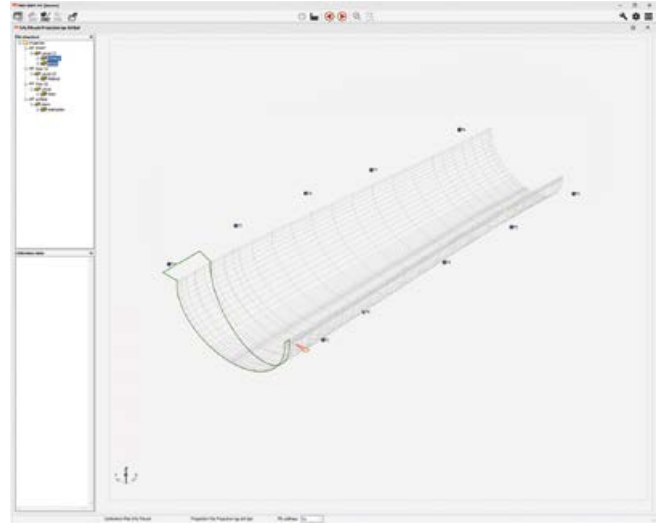
Testing and simulating

- In test mode, calibration and projection files without linked hardware can be loaded and displayed in the projection window. This makes it possible to test the complexity and structure of projection files.
- The simulation mode requires an operational laser projector. Its purpose is to check the projection and simulate a production process in advance.

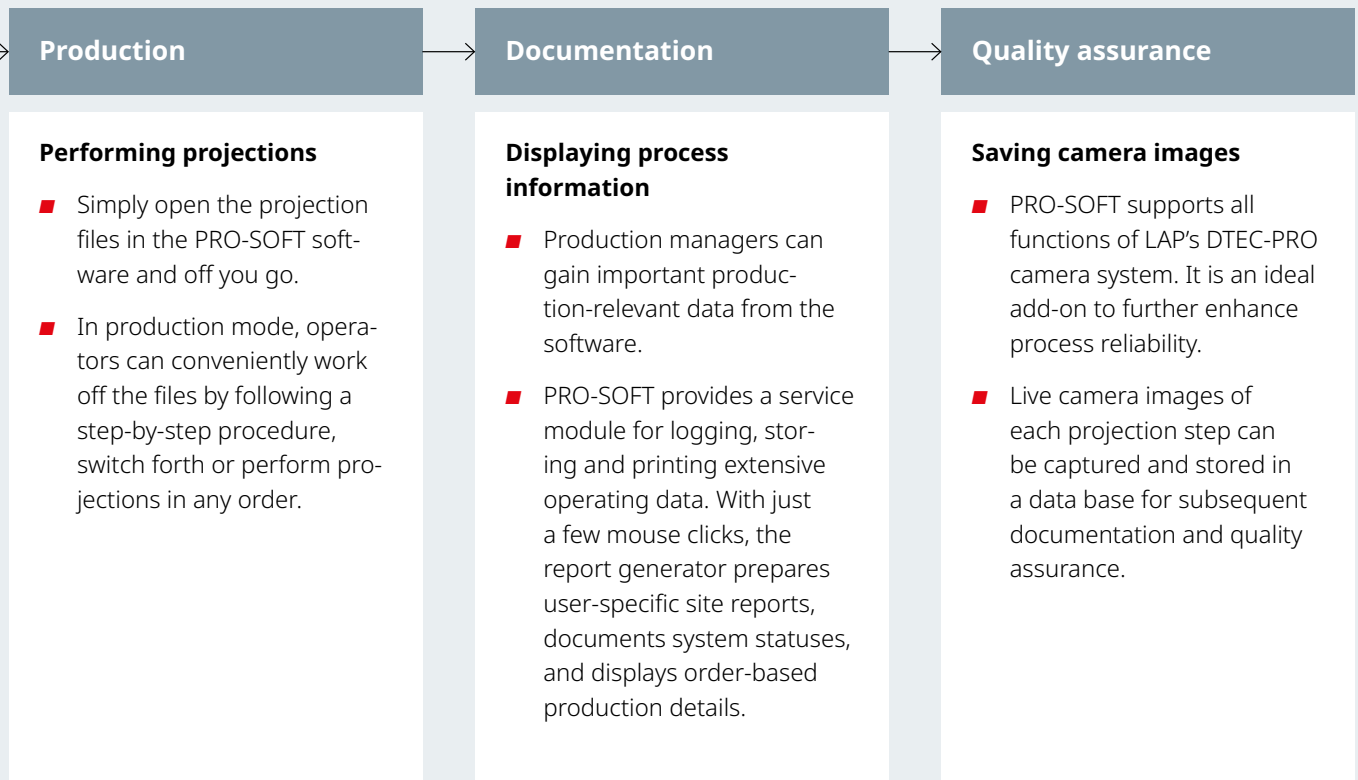
PRO-SOFT adapts flexibly to your requirements. Simulation, documentation and quality assurance are additional options, if you require a higher level of process safety.



Create CAD data and export the files into common exchange formats



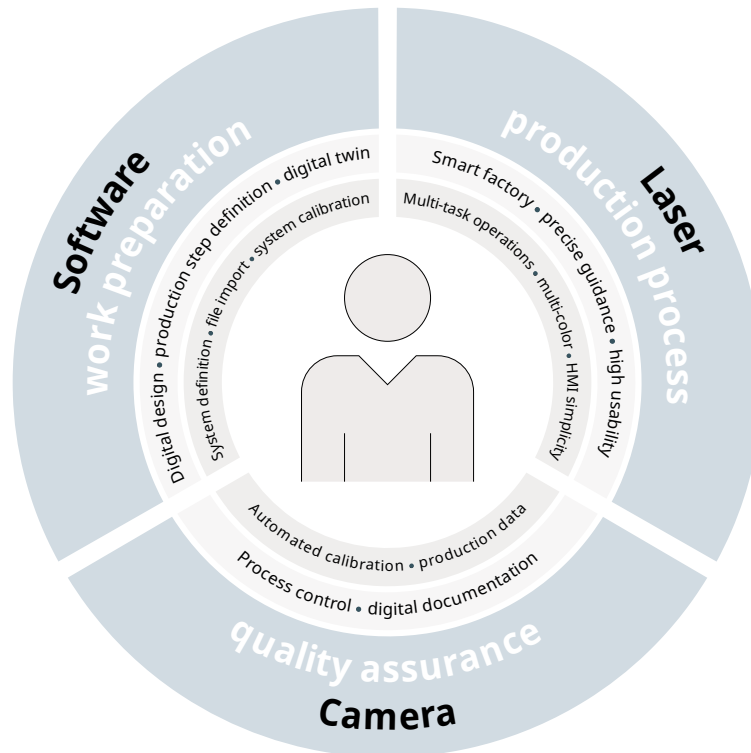
Open projection files quickly and easily in the PRO-SOFT software



LAP Plus



Ecosystem



Camera functionality

- LAP supports the integration of camera systems for quality assurance and seamless documentation.

Compatibility

- LAP facilitates work preparation with a user-friendly plug-in for the CAD software Rhinoceros 3D and is compatible with industry-leading design tools such as Autodesk®, CATIA®, and Siemens Fibersim™.

Interfaces

- The most important functions of the laser projection system can be controlled from the outside, such as by an external computer or by PLC, using a TCP/IP interface.
- As an option, LAP offers a comprehensive API to integrate laser projectors into 3rd party software solutions and to control them directly from these systems, such as implemented in Spatial Analyzer® from New River Kinematics®.

Maintenance contracts

Regular maintenance protects your investment goods by increasing your product's service life and reducing the risk of failure. Our service contracts range from regular inspection to complete cost coverage in case of malfunction.



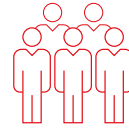
Find out more about
SAFEGUARD-PRO

About us

LAP is one of the world's leading suppliers of systems that increase quality and efficiency through laser projection, laser measurement, and other processes. Every year, LAP supplies 15,000 units to customers in industries as diverse as radiation therapy, steel production, and composite processing. LAP employs 300 people at locations in Europe, America, and Asia.



90+
Partners



300
Employees



7
Locations



Quality

We work to uniform standards and with certified processes. For us, "Made in Germany" means the highest precision in manufacturing and quality inspection of each device. For our customers, this means planning and process certainty.

All our worldwide locations use a quality management system according to EN ISO 13485 or EN ISO 9001. Our products have all the necessary approvals and registrations almost everywhere in the world.



Service

We ensure the maximum availability of your equipment so you can concentrate on your core process. Wherever you need us, our certified service technicians are quickly on site in any time zone. We support you from installation and commissioning, through user training, up to maintenance, repair, or unit replacement.

Our efficient logistics ensure the fast availability of spare parts worldwide. For technical questions and support, our helpdesk is at your disposal by telephone, via e-mail, or remote diagnosis.



More about our
global QM system



Contact us!
info@lap-laser.com

Kontaktieren Sie uns!

P +49 4131 95 11-95

E info@lap-laser.com

in LAP Laser

▶ [laplaser](#)

LAP GmbH Laser Applikationen

Zeppelinstr. 23

21337 Lüneburg

Germany

LAP GmbH Laser Applikationen, Germany / LAP Measurement Technology GmbH, Germany / LAP FRANCE SAS, France
LAP Laser Applications Asia Pacific Pte. Ltd., Singapore / LAP Laser Applications China Co. Ltd., China / LAP of America Laser Applications, L.L.C., USA / LifeLine Software, Inc., USA / Our worldwide partners: Argentina / Australia / Brazil / Bulgaria / Canada / Chile / Colombia / Croatia / Czech Republic / Dominican Republic / Egypt / Finland / Greece / Hungary / India / Indonesia / Italy / Japan / Jordan / Kuwait / Latvia / Lebanon / Lithuania / Malaysia / Mali / Malta / Mexico / Netherlands / Norway / Oman / Philippines / Poland / Portugal / Qatar / Romania / Saudi Arabia / Slovakia / Slovenia / South Africa / South Korea / Spain / Sweden / Switzerland / Taiwan, China / Thailand / Turkey / United Arab Emirates / United Kingdom / Venezuela / Vietnam / Zambia

LAP is a registered trademark of the LAP Group in several countries worldwide including the USA and EU. Designations of other companies and products are used for identification purposes only (e.g. to inform about the compatibility). These names can be trademarks or registered trademarks which belong to their respective owners. The use of any of these trademarks by third parties may infringe the rights of the respective owner.

www.lap-laser.com/pro-soft