



LASER PROJECTORS FOR INDUSTRY AND SMALL BUSINESSES. MARKING, ALIGNING, POSITIONING, CHECKING.





CAD-PRO

In a projection system, CAD-PRO laser projectors generate the visible lines on the surface of objects or tools. For providing data you may use the PRO-SOFT projection software or access via API.

The system is controlled and handled by a PC and remote controls. Installation is done according to customer's needs, including mechanical (ceiling supports, jigs ...) and electrical (turn-key cabinet, distribution boxes, cable ...) components.

CAD-PRO AND CAD-PRO compact REAL SIZE PROJECTION OF CAD DATA

Wherever CAD data has to be projected true to scale on real surfaces, you may use LAP laser projection systems.

Choose from several models with different laser color and power to suit your application.

SMALL SIZE, LIGHT WEIGHT

LAP CAD-PRO compact is the smallest and lightest laser projector in the market. CAD-PRO are easy to handle, from installation to replacement and shipping.

The projector clicks into its tilting bracket and is fixed with one Allen screw. Only ONE cable has to be connected.



MULTICOLOR PROJECTION

LAP CAD-PRO is the only projector in the market that can simultaneously project in three colors. You may display lines in any shape: outlines, straight lines or curves, icons or text.

ENHANCED SERVICE LIFE WITH DIODE LASER SOURCES

The new CAD-PRO LD models use green laser diodes that offer an operating lifetime of up to 30,000 hours – more than three times the service life of DPSS lasers.

DIGITAL CONTROL OF GALVANOMETERS

The actuators for the turning mirrors in CAD-PRO and CAD-PRO compact laser projectors are controlled digitally. This eliminates typical errors of analog systems like thermal drift or susceptibility to EMP. Using the parameters of the digital control, the projectors may be optimized for their individual task.



SYSTEMS FOR A WIDE VARIETY OF REQUIREMENTS

You may select from different models and build applications of one to 16 projectors to create solutions from small workplaces to large multi-head systems for aircraft parts or rotor blades of wind energy converters.

SCALABILITY

One system may handle up to 16 CAD-PRO projectors. Depending on PRO-SOFT software version, they can be used single, connected or in independent groups. Projection areas may be adjacent or partly or completely overlapping. Complex projection tasks are automatically balanced between projectors covering the same area.

EASY HANDLING

You can operate CAD-PRO either by PC and remote control or by tablet PC. For rough working environments (humidity, dirt ...) there is a "heavy duty" remote control.

FLEXIBILITY

Depending on objective, accuracy requirements, projection distance and visibility of laser color on your material you may select an appropriate CAD-PRO model.

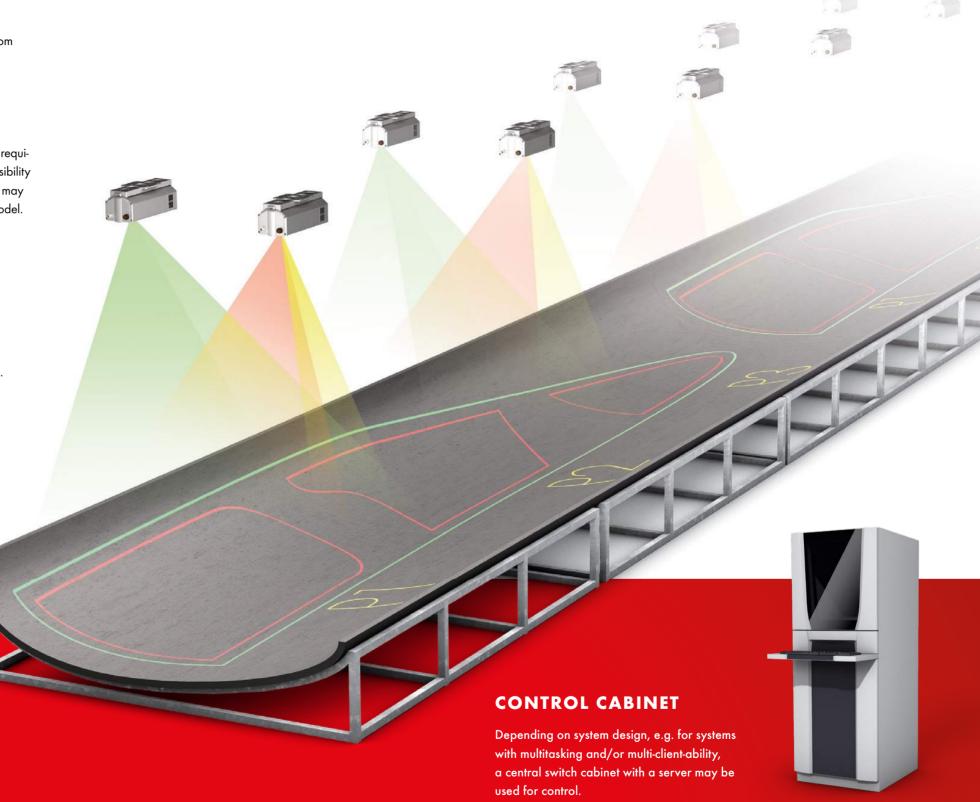
MOBILITY

LAP CAD-PRO may be provided on a movable cart with batteries to allow for independent operation.



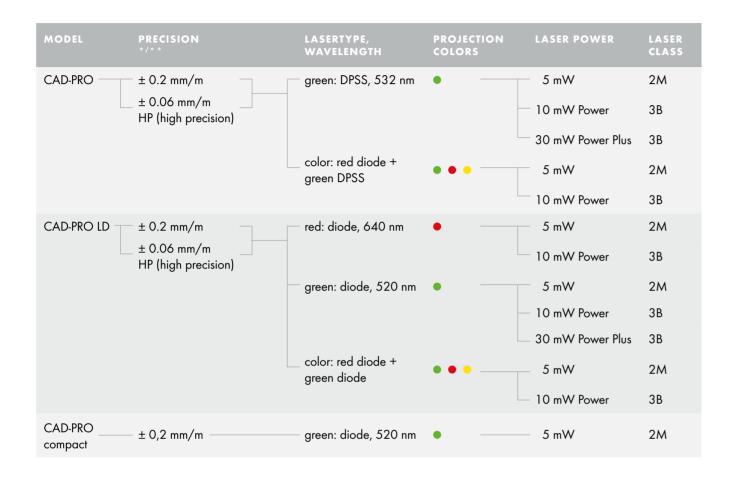
SYSTEM DESIGN AND OPERATION

You can find the specific description of features and operation in the PRO-SOFT software brochure and in the description of applications or industry solutions.





SPECIFICATIONS CAD-PRO AND CAD-PRO compact



	CAD-PRO	CAD-PRO compact
Repeatability*/**	± 0.025 mm/m	
Beam width*	0.5 mm FWHM	
Max. projection angle	80°	
Enclosure rating	IP 54	P65 and IP67
Ambient conditions	0 40 °C, 35 85 % rel. humidity, non-condensing	
Power supply	24 VDC, 1.5 3 A	
Connection	RS 485, Ethernet by interface	
Dimensions (L xWx H)	300 × 110 × 110 mm	240 × 110 ×110 mm
Weight	approx. 3 kg	approx. 2.8 kg

^{*} within ± 30° projection area in up to 4 m distance, beam impact perpendicular to surface, optimal focusing and calibration, > 30 minutes warm-up time













Customized, precisely measured calibration plate with targets and certificate for quality monitoring (optional)

TARGETS

High precision reflectors for calibration of the projection system, number depends on application, different shapes and pin

diameters, repair kit (optional)

TILTING BRACKET

with spring-loaded catch and locking screw (standard)



REMOTE CONTROL

Infrared remote control (standard), "heavy duty" RC optional

CONTROL CABINET

Optional. Alternative: connection to customer PC via switchboxes and interface.





^{**} mm per m distance projector to surface

CAD-PRO AND CAD-PRO compact, HIGH-TECH QUALITY BY LAP

For more than 30 years, LAP has been developing, manufacturing and distributing laser measurement systems, line lasers and laser template projectors for industrial and medical applications. LAP products are high-precision devices Made in Germany.

Using LAP laser systems, our customers improve performance and increase the quality of their products as well as the effectiveness of their processes.

As a result of continuous product innovation, LAP has become a world leader in lasers for projection and measurement. LAP products are setting the standards in a wide range of markets from manufacturing to heavy industrial environments and medical applications.

Environmental protection is important to us. We use solar panels, green electricity and roofs planted with grass. Our production is planned by standards of sustainability.

Quality has always been part of our commitment. We are content if you are. We know your high demands. To meet your requirements, the quality management of LAP is certified by DIN EN ISO 9001:2008 for industrial products and by EN ISO 13485:2007 for medical engineering products.

www.lap-laser.com/CAD-PRO





Designations of products or services may be registered trademarks of LAP GmbH or other organizations; their use by third parties may infringe the rights of the respective owners.

LAP GmbH Laser Applikationen

Zeppelinstrasse 23 21337 Lueneburg Germany

Phone +49 4131 9511-95 +49 4131 9511-96 Email info@lap-laser.com

LAP Laser, LLC

1830 Airport Exchange Blvd. Suite 110 Erlanger, KY 41018

Phone +1 859 283-5222 Fax +1 859 283-5223 Email info-us@lap-laser.com

LAP GmbH Laser Applikationen Представительство в Москве

1. Казачий переулок 7

119017 Москва Российская Федерация

+7 495 7304043 Факс +7 495 7304044 info-russia.gi@lap-laser.com

LAP Laser Applications Asia Pacific Pte. Ltd.

750A Chai Chee Road #07-07 Viva Business Park Singapore 469001

Phone +65 6536 9990 +65 6533 6697 Email info-asia.gi@lap-laser.com

LAP Laser Applications China Co. Ltd.

East Unit, 4F Building # 10 LuJiaZui Software Park No. 61 Lane 91 EShan Road Shanghai 200127 China

Phone +86 21 5047-8881 +86 21 5047-8887 info-cn@lap-laser.com

