

# DTEC-PRO

PROCESS SUPPORT SYSTEM



IR CAMERA WITH CIRCULAR FLASH LIGHT  
FOR RECOGNITION, CALIBRATION AND IMAGING  
DURING POSITIONING WITH LASER PROJECTORS



# DTEC-PRO – EXTENDED FUNCTIONALITY FOR CAD-PRO + PRO-SOFT PROJECTION SYSTEMS

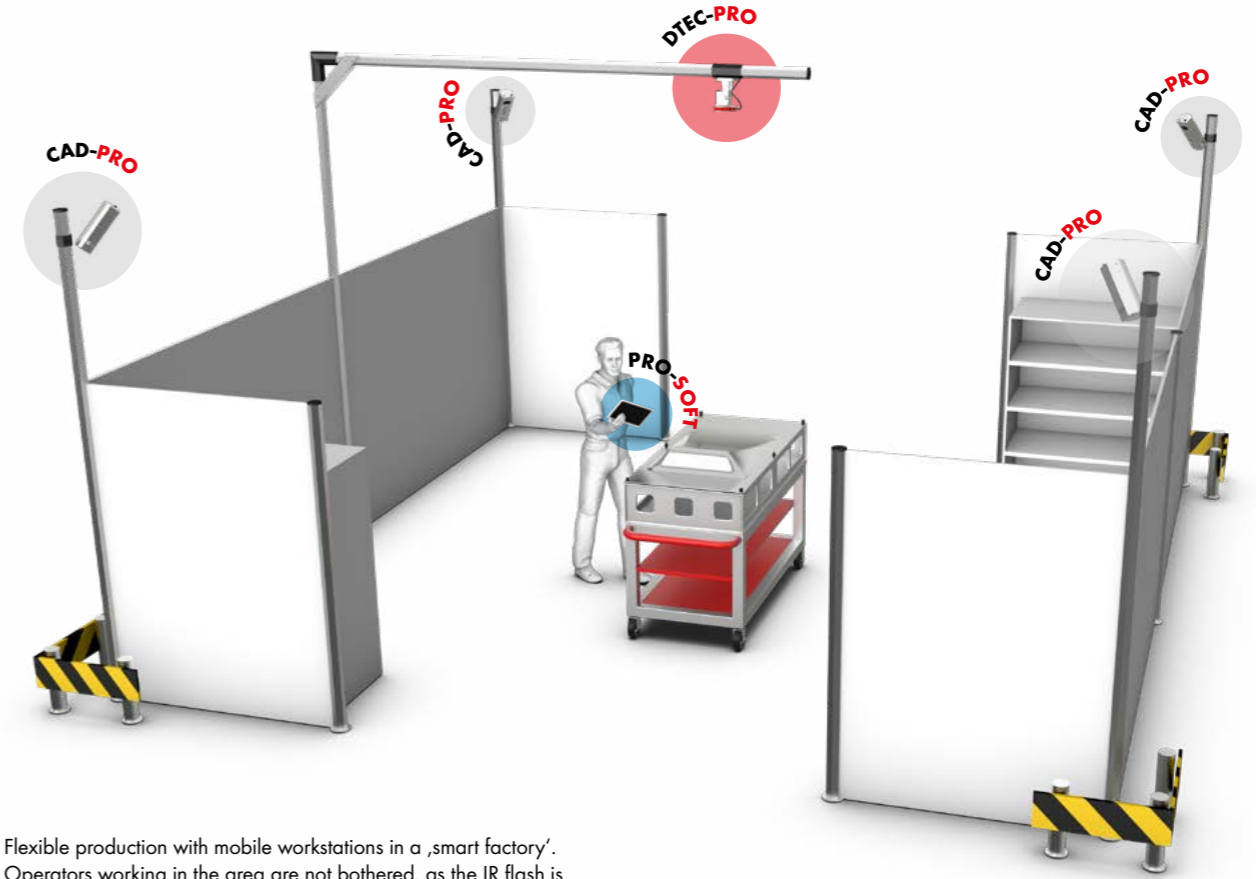
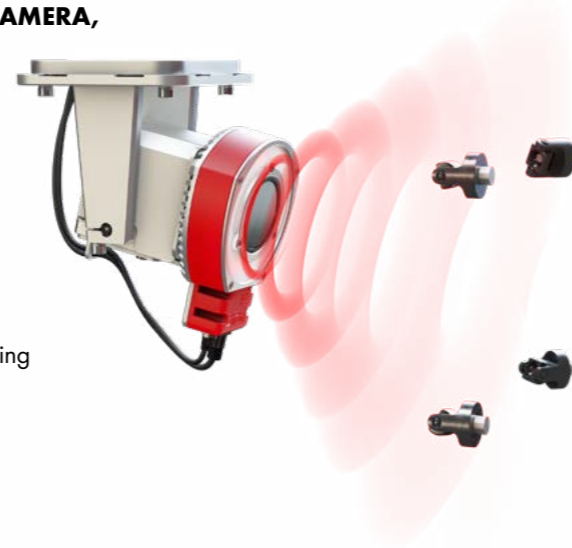
**DTEC-PRO, CONSISTING OF AN IR CIRCULAR FLASH AND AN IR CAMERA, IS A SYSTEM TO ACCELERATE YOUR PRODUCTION PROCESSES!**

DTEC-PRO

- replaces manual calibration routines
- detects tool movements automatically
- offers **NEW** camera features:  
„unit calibration“, „camera live image“ and „QR code recognition“

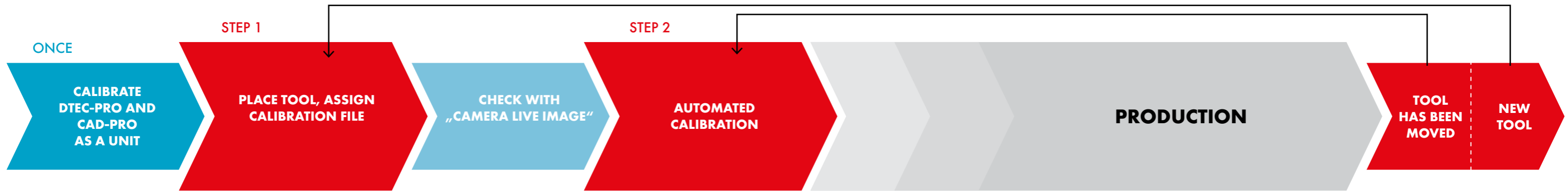
One DTEC-PRO may support several projectors. They are easy to retrofit in existing installations, only a software update is required.

As DTEC-PRO are not mechanically joint to projectors you have the flexibility to transform the working environment to fulfill your requirements.



Flexible production with mobile workstations in a ‚smart factory‘. Operators working in the area are not bothered, as the IR flash is invisible to the human eye.

**ADVANTAGE: NO MORE MANUAL BASIC CALIBRATION OF EACH TOOL WITH EACH PROJECTOR, EVEN IF THE TOOL IS USED FOR THE FIRST TIME.**



The feature „unit calibration“ does away with basic calibration of each tool. A group of one or several DTEC-PRO and one or several CAD-PRO can be treated as a unit. The unit is calibrated as a whole once and then used like a single device.

Calibration files assigned to each tool may be selected manually at the PC or by the DTEC-PRO camera using a QR-code. The automated calibration will start as soon as there is a tool with an activated calibration file in the covered area.

The coverage of each DTEC-PRO can be checked by the „camera live image“ function. This allows the user to optimally position the tool in the production area and ensure the target is visible to the camera before production begins.

The camera detects the target positions and transfers the data to the PRO-SOFT projection software. The appropriate CAD-PRO laser projectors display the calibration pattern on the assigned targets and precisely capture their positions.

After successful calibration production can start. Each single process step is organized in the PRO-SOFT projection software. Operators use remote control, tablet PCs or a projected laser menu to call the sequence step by step.

**DTEC-PRO – PRODUCTION PROCESS SUPPORT FOR HIGHEST DEMANDS**

Movements of the tool are detected automatically. Production is interrupted and a new automated calibration is triggered. If a new tool is introduced, only the assigned calibration file has to be activated. Calibration happens automatically.

# DTEC-PRO HIGH-TECH QUALITY BY LAP

For more than 35 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/DTEC-PRO](http://www.lap-laser.com/DTEC-PRO)



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