



·I inn Vision

Artificial Vision Measuring System

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Introduction



<u>innVision</u> is an innovative analysis software used to detect load deformation & validate load stability. With the high-speed camera and software, analysis time is greatly reduced to just a few mouse clicks.

<u>innVision ST</u> is the semi-automatic version for load stability and deformation measuring. The system takes a series of photos that the user can analyze to determine the point of deformation of the test unit. **Included with the innSlide family.**

<u>innVision PRO</u> is the fully automatic version for load stability and deformation measuring. The system takes a series of photos, automatically analyzes them, and demonstrates the deformation points – saving valuable analysis time.





Compatible Standards



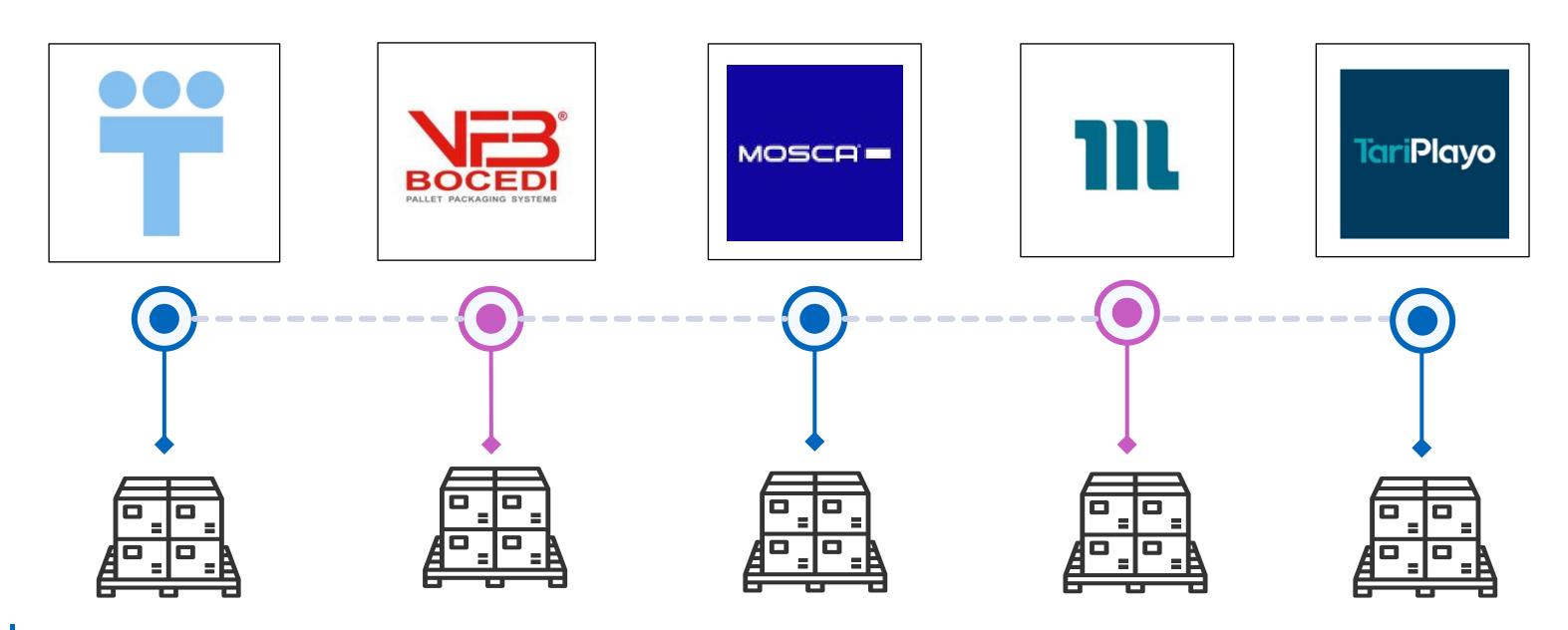
40509

Used to create reports for load verification



Industries:

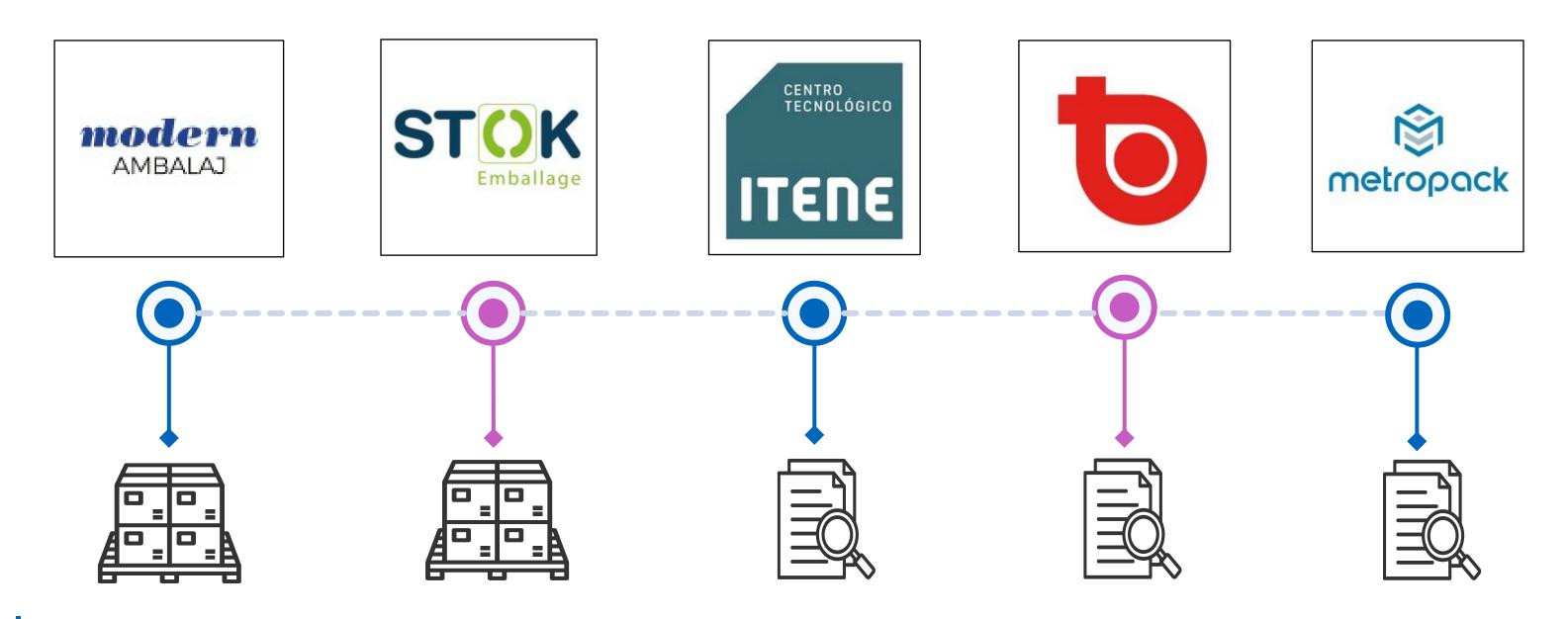
Packaging: Pallets, film, straps





Industries:

Packaging, Universities & Research Institutes





innVision ST



Semiautomatic software

High-speed camera

Quick, easy analysis; Multiple applications

Create test report



innVision PRO



Fullyautomatic software

High-speed camera

Effortless analysis; Multiple applications

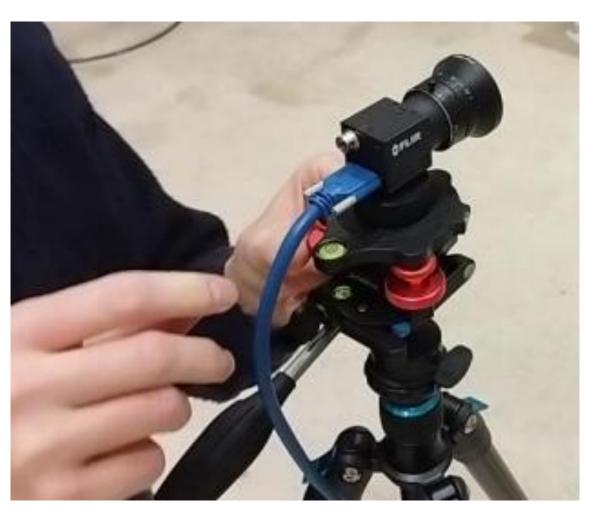
Automatic test report generation



Components



High-speed camera & lens



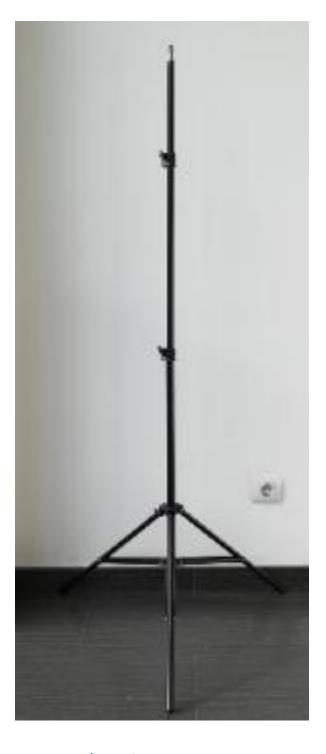


PC with software (PRO only)



innVision

Auxiliary tripod



Tripod with leveling mounting adaptor



Description



innVision PRO

For non-SLTT equipment





Trigger box



Magnetic base



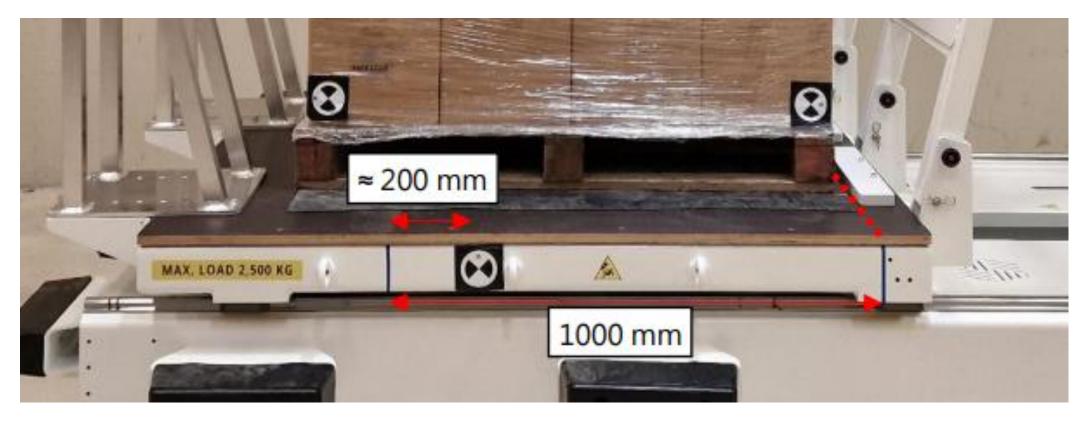
Inductive proximity sensor



Sensor cable extension



Setup



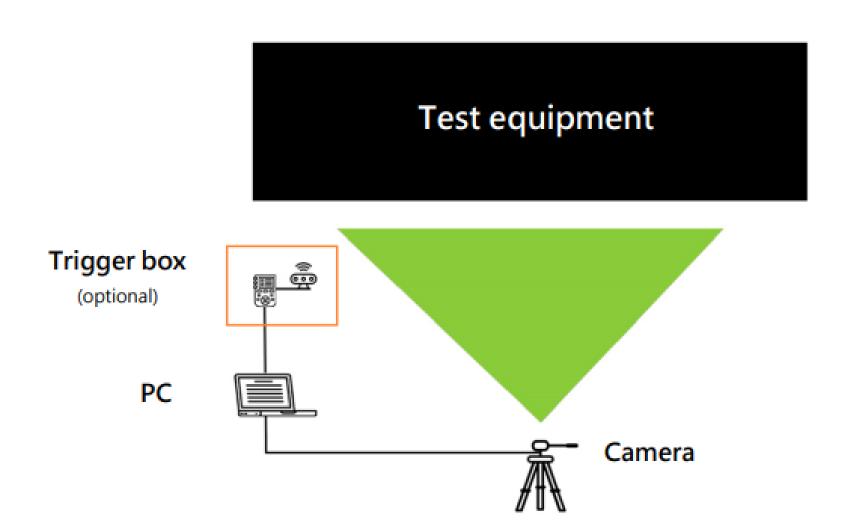
Reference target on equipment; recommended distances.

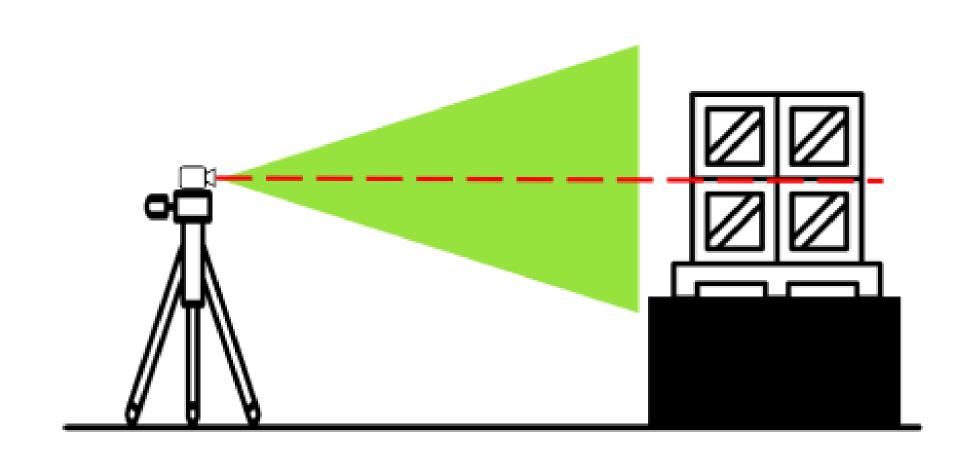


Stability tests: 4 targets, 1 per corner Tilt tests: 2 targets, pallet base corners



Setup

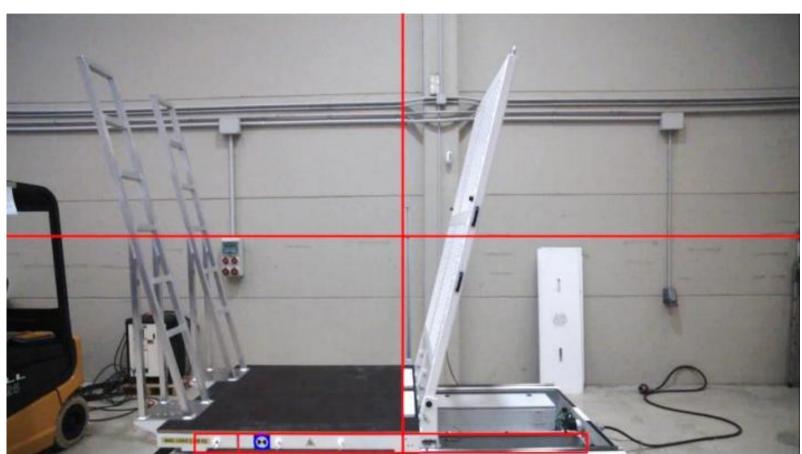






Setup

Lighting is important for correct operation.



Verify that targets are recognized

Adjust camera focus.











Green: Camera tilt angle;

Blue: Pan angles

Red: Roll angles

by the system.



Recording

Fill in blanks to create a folder to record test data.

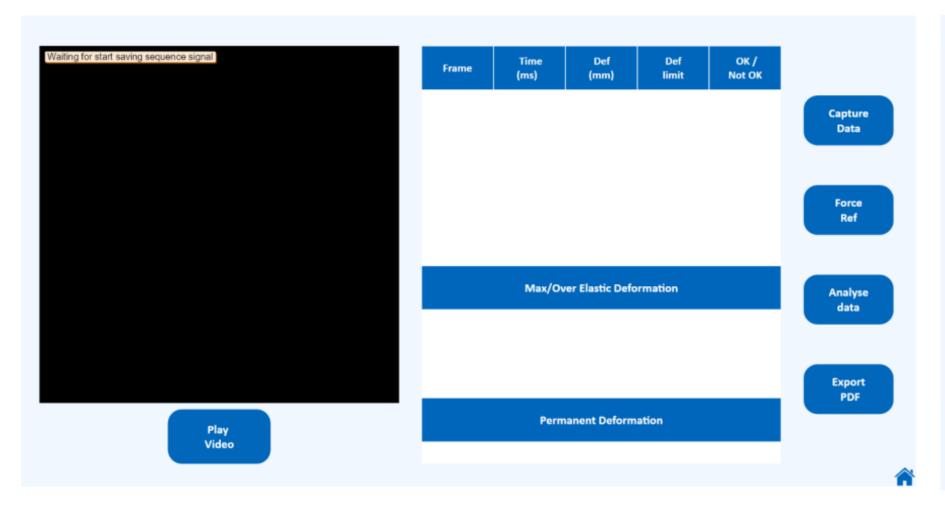






Recording

Run test. When finished, results appears indicating frame, time, deformation, and OK / Not OK report.

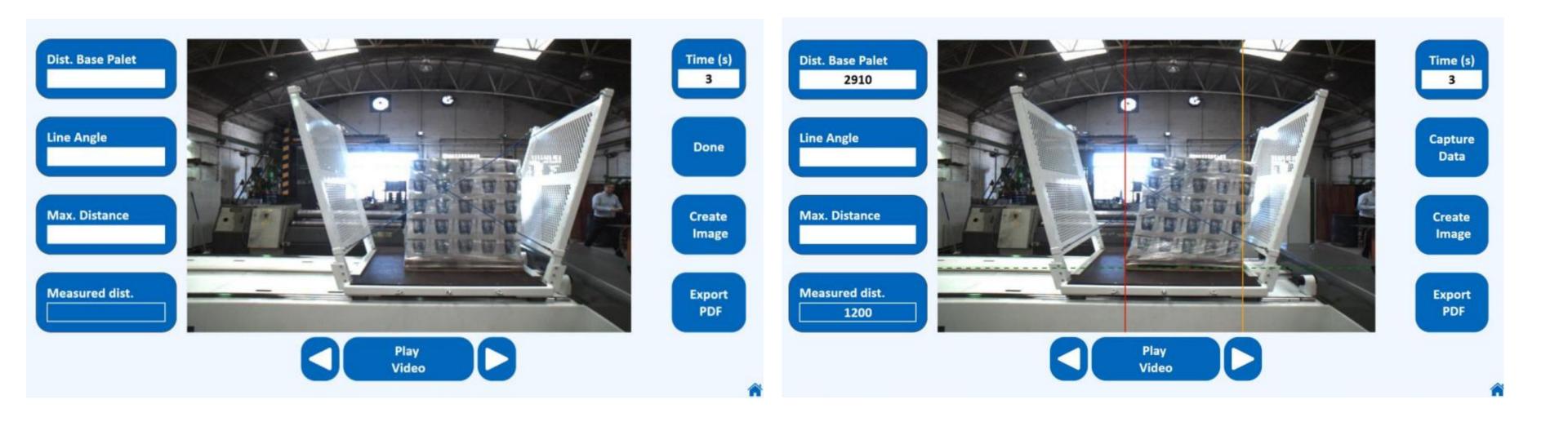






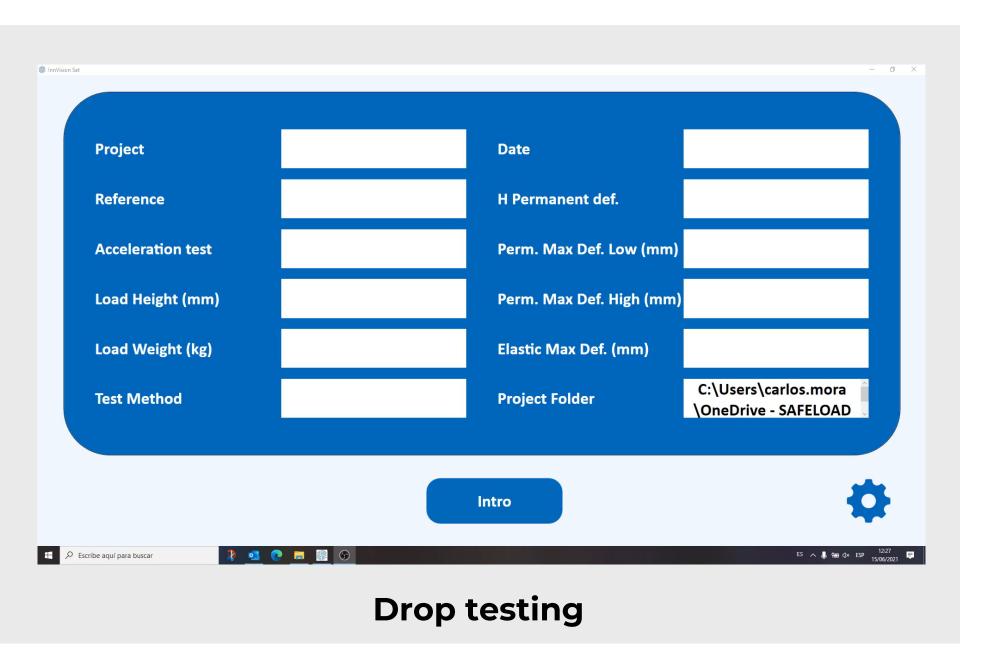
Recording: ST

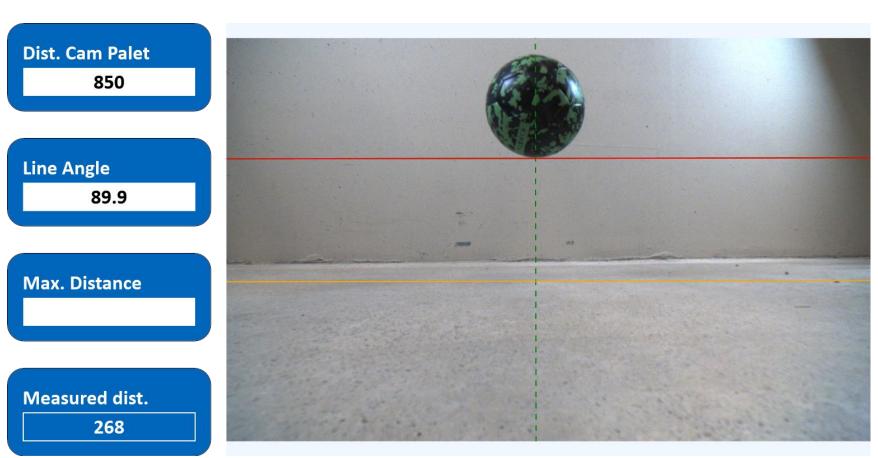
Play video to select deformation points.





ST: Application Videos







ST: Application Video



Dist. Cam Palet
3130

Line Angle
15,1

Max. Distance
130

Measured dist.

Tilt testing



ST: Application Video



Dist. Base Palet
2200

Line Angle
0

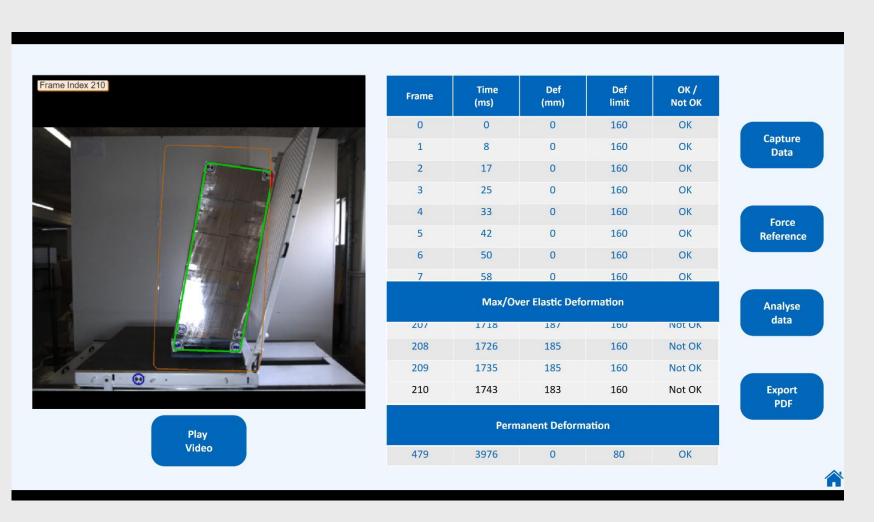
Max. Distance
105

Measured dist.
82

Load stability testing



PRO: Application Video

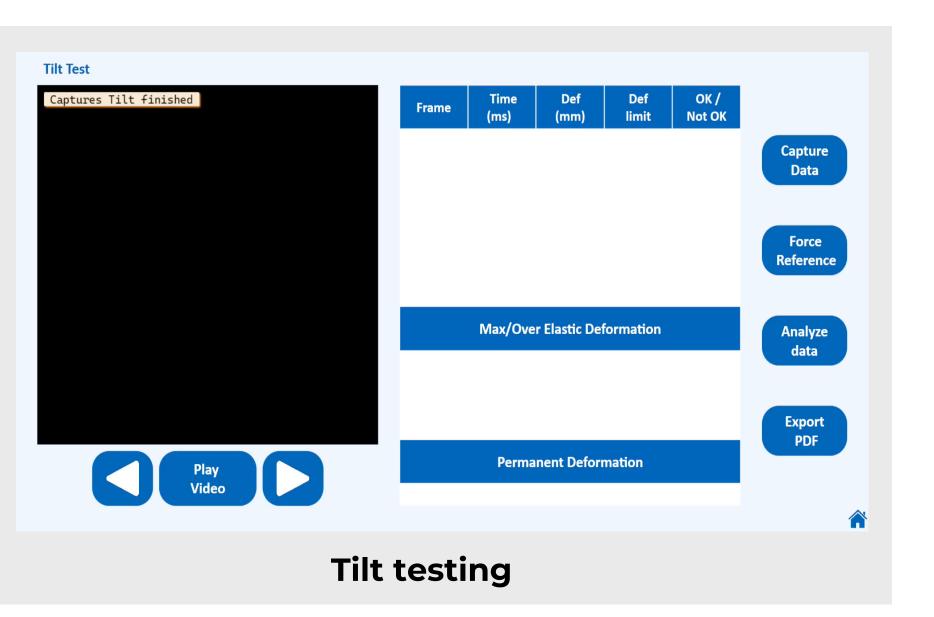


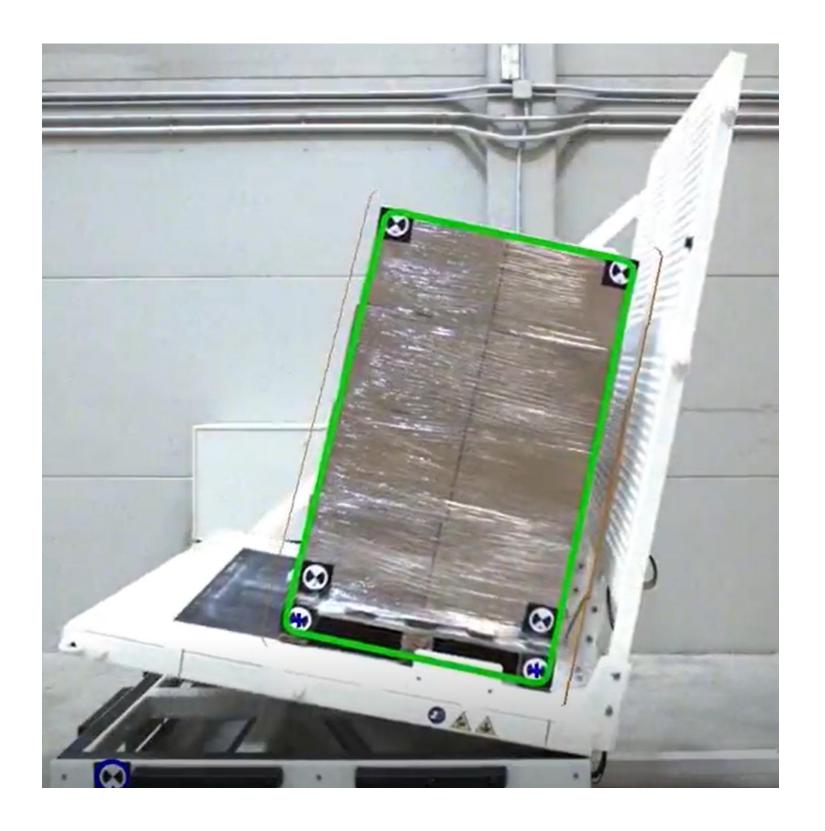




SAFE LOAD testing technologies

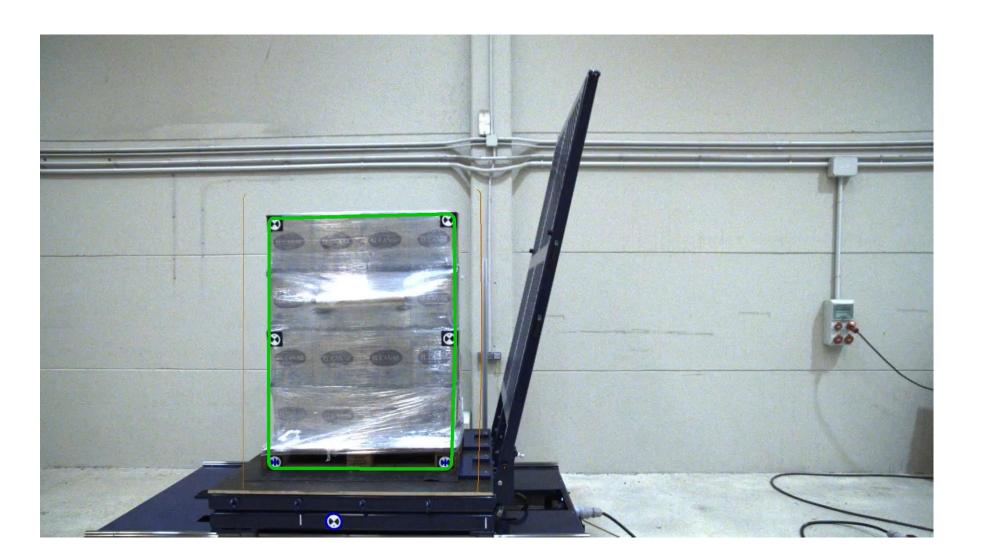
PRO: Application Video

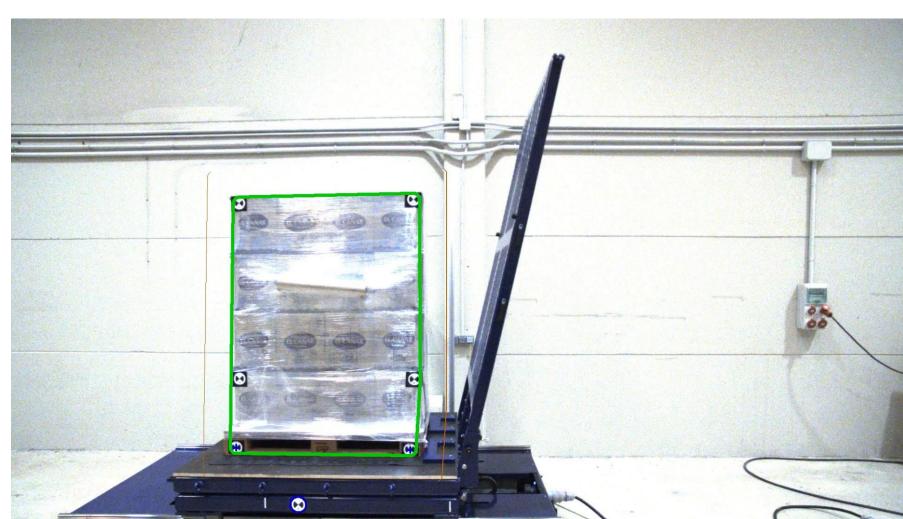






PRO: Application Videos

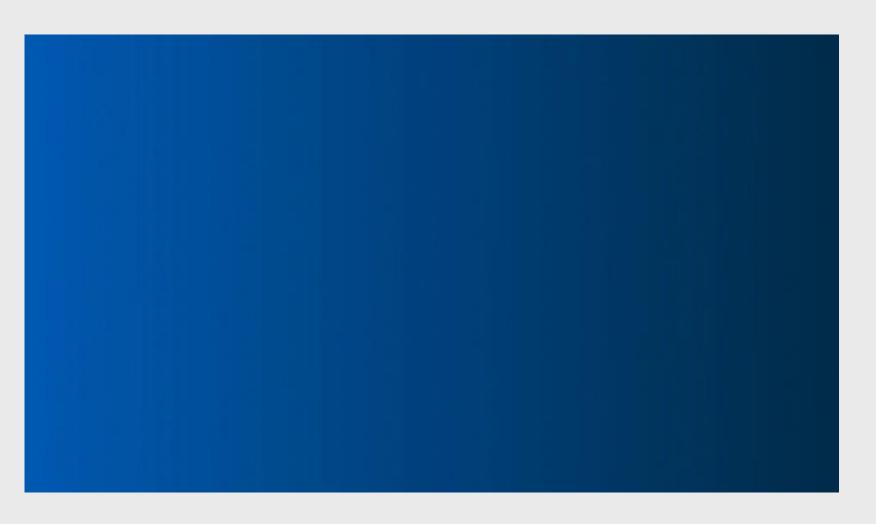




innSlide Hybrid testing



PRO: Application Video



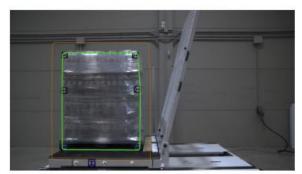
EUMOS Report Generator

B. TEST RELATED DATA

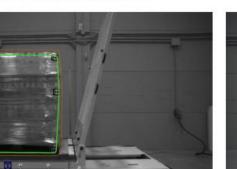
LENGHT DIRECTION TEST

CONCEPT	DESCRIPTION
11. Date	14/2/2024
12. Place	SAFE LOAD (VLC-SP)
13. Rigidity	0,40g

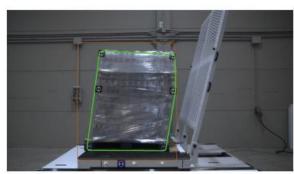
Before testing



Permanent deformation



Maximum Elastic Deformation





Recording modes

Automatic

Activated after launching test on the machine. Only available for the innSlide stability tester family.

Horizontal stability test

Horizontal Dynamic acceleration applied to unit load. Analysis of the elastic deformation during test, permanent deformation after test.

Combination test

Horizontal dynamic acceleration followed by static acceleration test.

Analysis of elastic and permanent deformation.

Manual

Activated in innVision software.

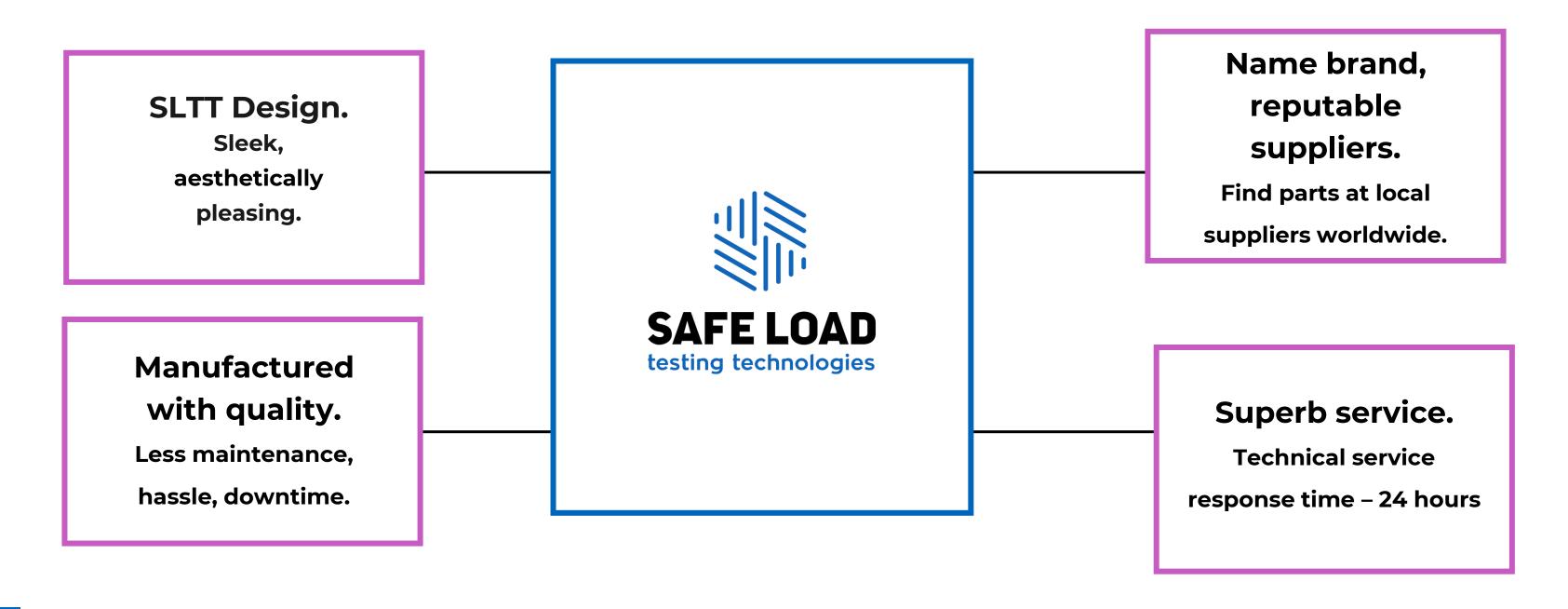
Press capture data button & system will record test.

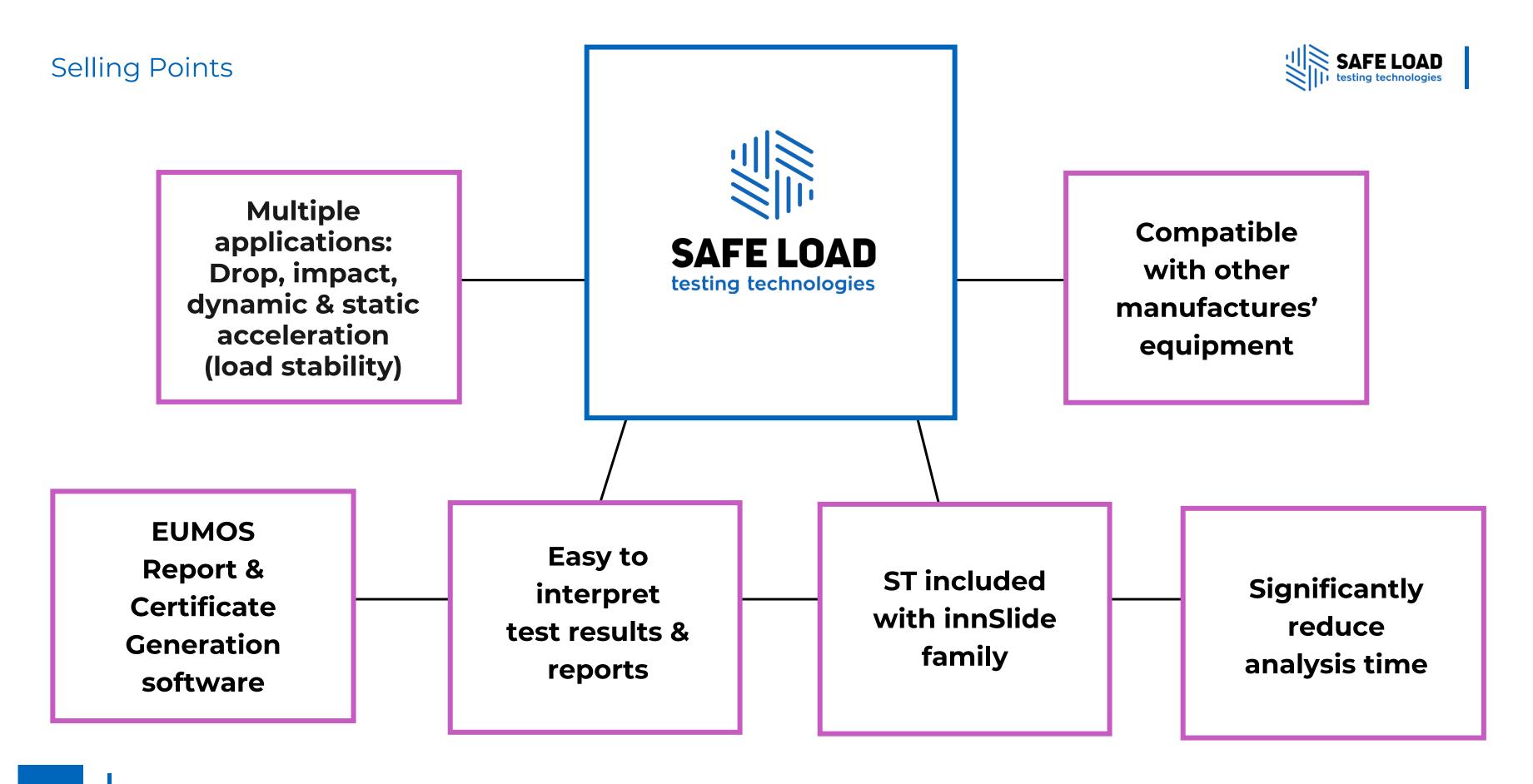
Tilt test

Static acceleration applied to unit load through inclination & holding at target angle during target time. Analysis of permanent deformation after test.



The SLTT Advantage









inn Vision

Users manual

Users manual

nn Vision

innVision Artificial Vision Measuring System

Technical Manual

- o Product description
- Setup
- Settings
- o Operation
- Applications