



PAL Series Optical Measurement Systems

Precision and accuracy are of great importance in the production and quality control processes of aluminum profiles. As Pixera Technology, we make a difference in the sector with the optical measurement systems we have developed to meet these needs.



**“Perfect Measurement,
Perfect Performance in
Aluminum Profiles!”**

PAL SERIES OPTICAL MEASUREMENT SYSTEMS



Pixera PAL series measuring devices are optical measuring devices that enable fast quality control application in aluminum and plastic extrusion lines. The devices are able to perform precise measurements near extrusion lines without being affected by environmental conditions such as temperature, dust and vibration.

The PAL series is designed to detect defects in the production process as soon as possible by combining a high-resolution imaging system, specially designed lighting, high-performance computer technology and software applications.



WHY PAL SERIES?

- ✓ High precision measurement capability
- ✓ Ability to reverse engineer a point cloud of a part without CAD data
- ✓ Ability to work in extrusion line with its robust design
- ✓ Immediate detection of errors in production
- ✓ User-friendly and simple interface that requires no expertise
- ✓ Fast, precise and reliable measurement of parts that cannot be measured by conventional methods
- ✓ Avoid human-induced measurement errors with one-click measurement feature
- ✓ Ensuring line traceability with data logging feature

LET'S GET TO KNOW PAL SERIES DEVICES



PAL SERIES	PAL 200 PRO	PAL 300 PRO	PAL 600 PRO
MEASUREMENT AREA	200x133 mm ~ 8x5 inch	300x200 mm ~ 12x8 inch	600x400 mm ~ 24x16 inch
SAMPLE HEIGHT	1-350 mm	1-350 mm	1-350 mm
MEASUREMENT SENSITIVITY	< ± 15 µm	< ± 15 µm	< ± 25 µm
MEASUREMENT TIME	3-10 sn	3-10 sn	3-10 sn
DEVICE DIMENSION	1300x700x1750 mm	1600x700x1750 mm	1800x700x1750 mm

Each PAL Series model is built with Pixera Technology's engineering expertise and quality standards. With its innovative design and user-friendly interface, PAL Series Optical Measuring Instruments speed up your work and increase your productivity.

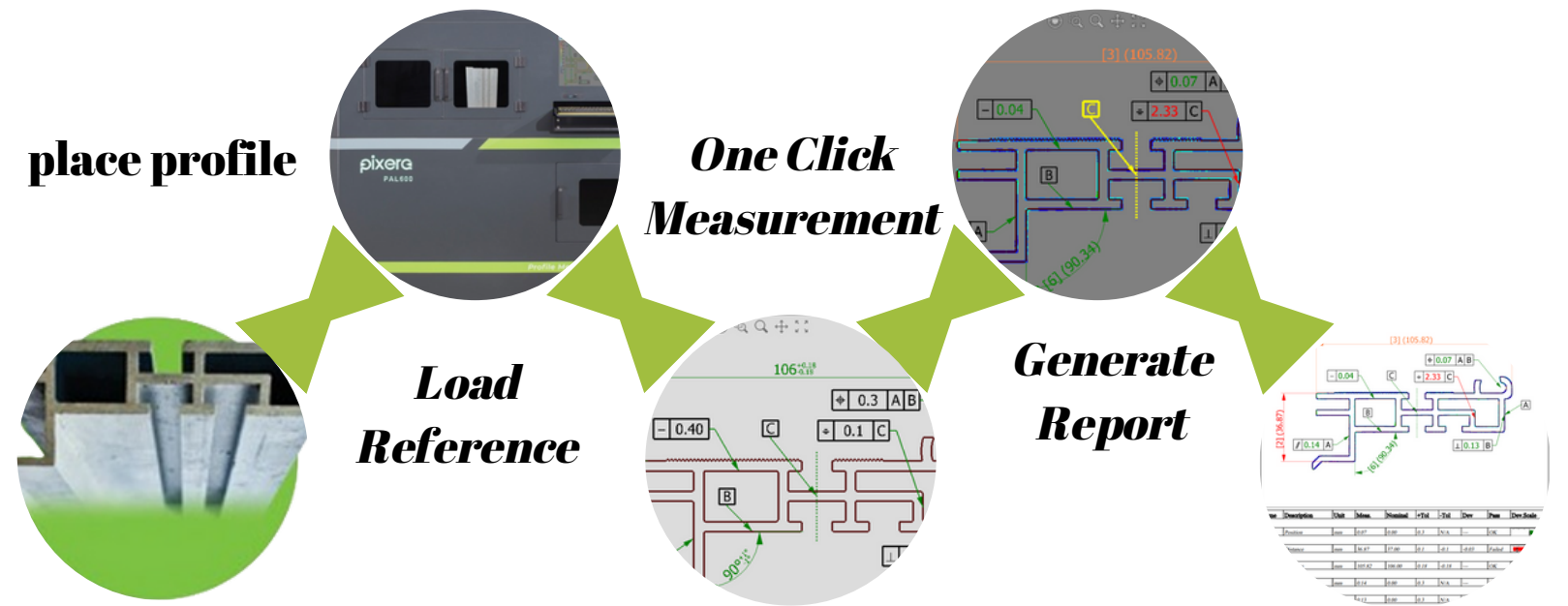
SOFTWARES



PALViewer is a software application that displays point clouds and CAD drawings of profiles measured on PAL Series Optical Measuring Instruments in various formats.



RefDesigner is a reference file preparation application where the dimensions and tolerances of the profile to be measured are entered.



The Pixera Pal Series offers a breakthrough in industrial measurement. With RefDESIGNER, the profile is measured and a reference file is created. Then, the reference file is called up with the Palsw software and the profile is precisely measured with a single button. After the measurement is completed, a report of the measurement results is printed with a single button. Finally, Geos software is used to geometrically scan and analyze the scanned profiles. This integrated software package simplifies the optical measurement process of aluminum profiles and increases production efficiency.

ADDITIONAL SOFTWARE



GEOS

GEOS software allows geometric similarity analysis on CAD data, quickly and efficiently searching for profiles similar to a given profile. This innovative software can list the most similar profiles by directly comparing a sample with all records.



SPC

The SPC module offers the possibility to measure and control quality by continuously monitoring the production process. By analyzing profile production processes, this software keeps production quality under control and detects possible deviations in advance.



Support Management System

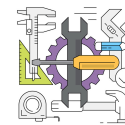


Pixera Support Management System is a user-friendly platform that allows you to easily track the calibration, maintenance and software updates of your devices. You can communicate effectively with Pixera Support Team with instant device status tracking and quick support requests.



Comparison Software

The comparison software compares profile measurements taken at different times and analyzes changes in the measurements in detail. In this way, changes in the molds can be easily observed.



Reverse Engineering

Reverse engineering capability offers the possibility to create a detailed drawing of a part without CAD data. With this technology, you can digitally recreate the geometry and structure of an existing part and reuse it in production processes.



Database Module




The Pixera Database Module is an innovative solution that offers unique benefits to users of the PAL series optical measurement instruments. It secures your scans, protects your data and maximizes productivity by speeding up your measurement processes.



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