

PyVision

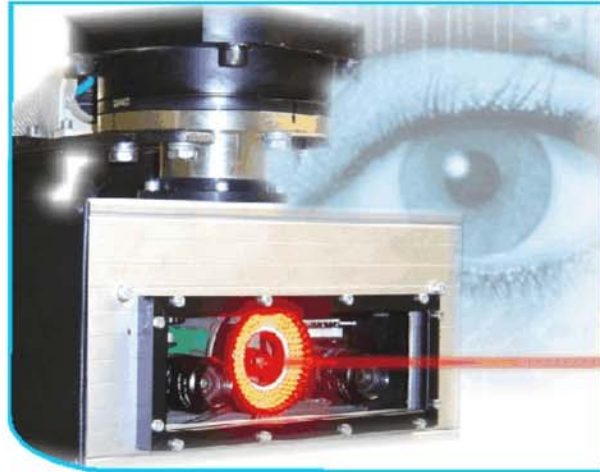
Machine Vision Solutions

Machine Vision

PyVision is a Machine Vision System and consist of a powerful software and a vision structure (cameras and lighting), designed to increase productivity of your company within a very short period of time at a very low cost.

Using **PyVision** you may:

- Reduce production costs
- Increase the production of your plant
- Comply with the market's quality standards



PyVision, Machine Vision System

Applications

- Metrology
- Quality Control
- Reserved Engineering
- Threedimensional reconstruction
- Orientation - Classification
- Presence / Absence of objects
- Positional Control - Robot'sguiding
- OCR - Character Reading

ADVANTAGES

- ▶ Specific vision system implant according to the customer's requirements
- ▶ Continuous image capturing and processing
- ▶ Very robust system in hostile working enviroments, such as dirt, dust or oil
- ▶ Open software; capable of modification and/or integration of new references
- ▶ Very easy to set-up by the company's technicians
- ▶ Historic events recording for statistics
- ▶ Modular architecture system
- ▶ Complete turn-key projects (mechanic, electric, computer...).



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Machine Vision

PyVision

Machine Vision Solutions

Control Software



Easy object selection

Ideal system for industrial surroundings, very simple and user-friendly, specially designed for final users with no specific programming knowledge.

Versatility

The production personnel will have several interacting-systems at their disposal, such as keyboard, mouse, touchscreen, track-ball, optical pencil...

Unlike other systems with closed architectures, the **PyVision** software has a great scalability, from economical identification systems to complex 3D-applications.



Welding process under Pyvision 6.0

Technological innovations: 3D Metrology

Obtaining high-precision, 3D-physical magnitudes



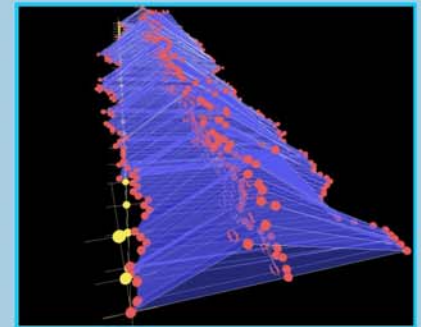
Measuring of Interest Point

The system verifies the production's 100% quality through 3D inspection of singular points and characteristics, such as: distances between points and planes, linearity, paralelism and angles between planes with the required precision in order to control and avoid deviations during production process.

The application is specially useful for those companies whose production processes require very strict quality & metrical controls of their elements.



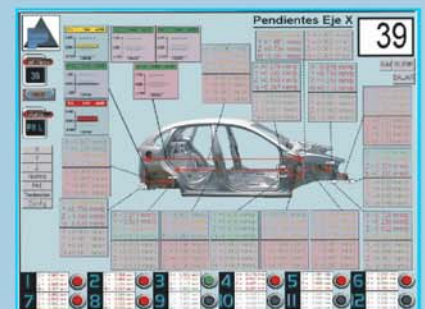
3D Metrology



3D-reconstruction view of a welding cord, through triangular laser scanning.



Palletising of glasses through Machine Vision



Continuous Metrology System of Car Bodywork



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