# MULTIVISION II

NEW OPTICAL MEASUREMENT SYSTEM
BASED ON 3 CAMERAS

## “Ultimate geometry”

**MULTIVISION II** has the same functionality as a traditional profile projector, with the added advantage that it instantly provides all the programmed measures in one go and can be used:

- **on board of the machine,** for 100% production control
- **in a bench structure**, replacing a traditional profile projector

**MULTIVISION II** is available in versions with 1 to 3 cameras and the fields of view can be customised.

**MULTIVISION II VH**
**(2 cameras, horizontal and vertical)**

**MULTIVISION II V2**
**(2 vertical cameras with small and large field of view )**

Multivision II is ideal for t**hree-dimensional measurement** such as for compression, torsion and tensile springs as well as several templates. The instrument consists of:

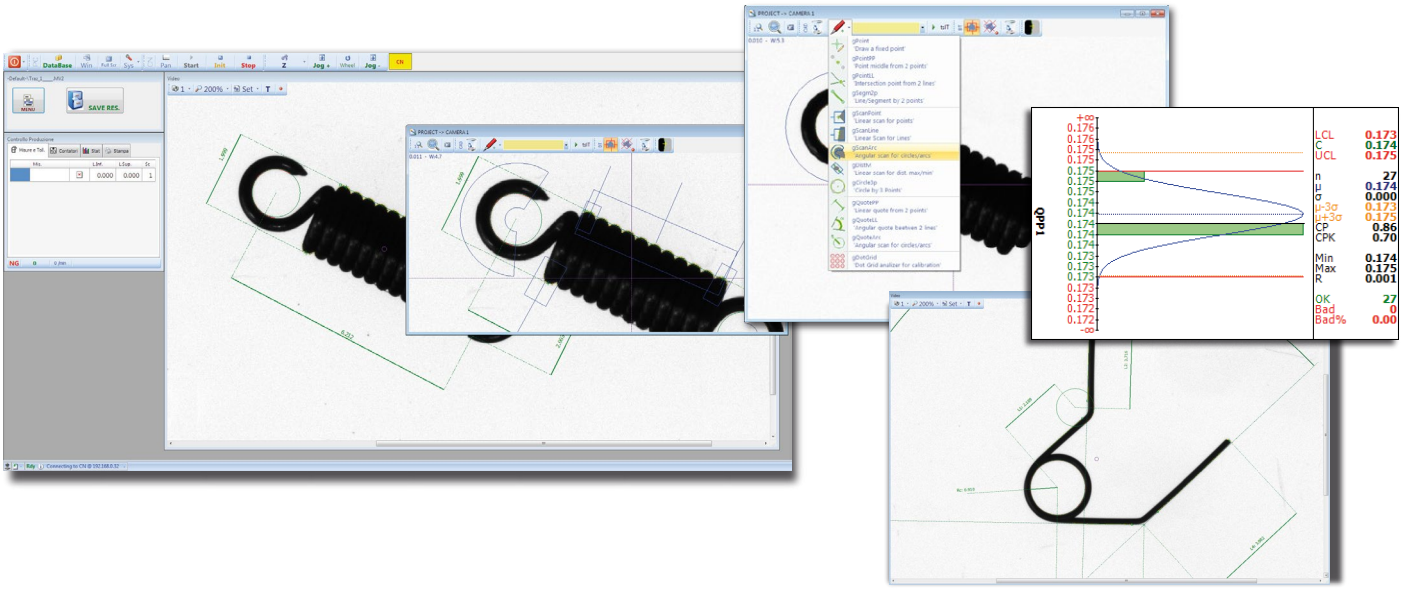
- one PC with a 23” monitor, capable of controlling 1 to 3 cameras, a Windows 7-based image analysis software made by EASYDUR
- 1-3 cameras and respective telecentric lenses
- 1-3 illuminators for profile reading

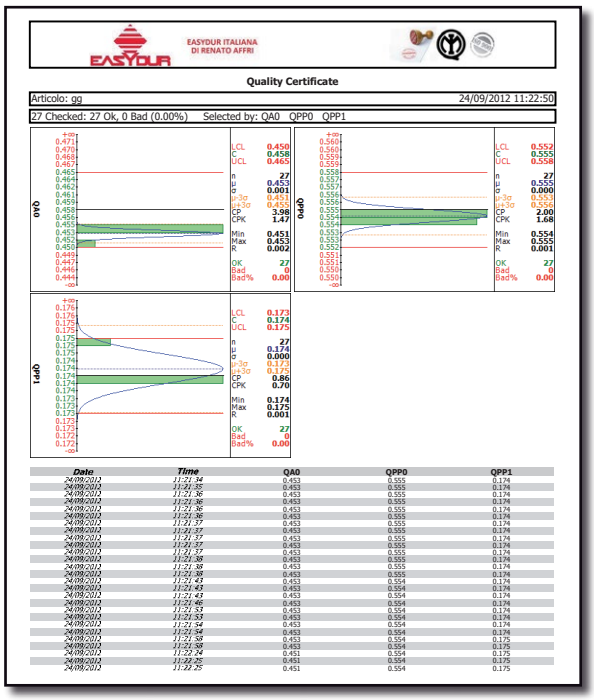
## “Part recognition and alignment”

Since it is not based on a set drawing, the system is extremely open and fully programmable and **will automatically recognise and measure** any shape that is brought into focus by the cameras. Thanks to the **Block Tracker** function, the software calculates the centre of gravity on the first sample measured and learns the data for rotating the part through 360° so that **the operator is not forced to reposition** the next samples. The program relies on a database full of geometrical instructions to search for points, lines, circles, etc., making it possible for instance to evaluate distances, angles, bend radiuses, etc.

## “CAD-Style Design”

Similar to a CAD-system, the user graphically draws points lines and arcs, so that it no longer relies on the software interpretation, based on tables and function rows. Archives are included for storing programs and test results. Statistics are provided in real-time and for every measurement taken you can obtain: Average, Sigma, CP, Cpk, Gaussian curve, bar graph.
Results and graphs are updated for every piece produced making it possible to analyse their most critical features.






## “Fast and accurate image analysis”

The image scan function has been developed by EASYDUR and reaches a resolution of 0.1 pixel.
Search for linear and radial outlines is implemented.
Instrument resolution is 0.01 for a 60/70 mm field of view, and 0.01 mm for small fields of view (6mm).
Digital cameras are on FireWire bus with a CCD sensor.
The extremely low shooting speeds make it possible to measure moving or vibrating targets, especially when used on board of the machine.
Camera resolution ranges from 0.3 MPix to 5 MPix.

| STANDARD MOD. ( VH e V2 )* | FIELD OF VIEW | RESOLUTION | MIN. MEASURABLE THICKNESS |
|---|---|---|---|
| MULTIVISION II - 25 | 25X19 mm | ≃ 0.005 mm | ≃ 0.1 mm |
| MULTIVISION II - 64 | 64X48 mm | ≃ 0.01 mm | ≃ 0.2 mm |
| MULTIVISION II - 110 | 110X85 mm | ≃ 0.01 mm | ≃ 0.2 mm |
| MULTIVISION II - 200 | 192X144 mm | ≃ 0.02 mm | ≃ 0.4 mm |

*** MULTIVISION II may be personalised to suit customer requirements.**


EASYDUR TESTING EQUIPMENT

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