

Smart_Projector_Quattro

High Performance ZOOM Video Measuring Instrument



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"Four Instruments in One"



Automatic and Productive

Smart_Projector_Quattro is an automatic Profile Projector that combines the precision, objectivity, repeatability and user-friendliness guaranteed by Smart_Vision's Technology.

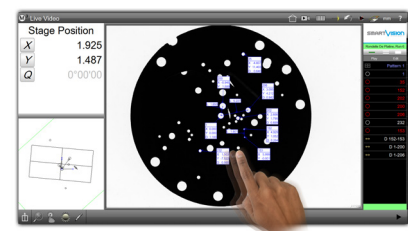
Four in One

With a innovative optical solution of zoom lenses in only one instrument, Smart_Projector_Quattro allows four different magnifications, changing the Field of View by software, making this product a **4-in-1 solution** for complete and automatic dimensional check of a wide range of products.

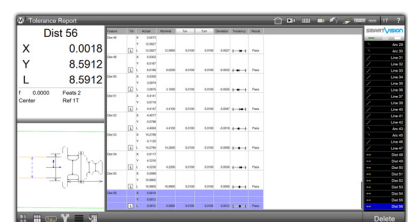
Accurate

This equipment guarantees measurement stability of the image center when focusing and switching from one level of magnification to another. The benefits given by the **flexibility of the zoom lenses** and the accuracy of the fixed optics are merged together in this equipment with no compromise in precision. **Four different FoV in one unique instrument:** precision, flexibility and savings!

New Generation Software:
TOUCH & MEASURE!



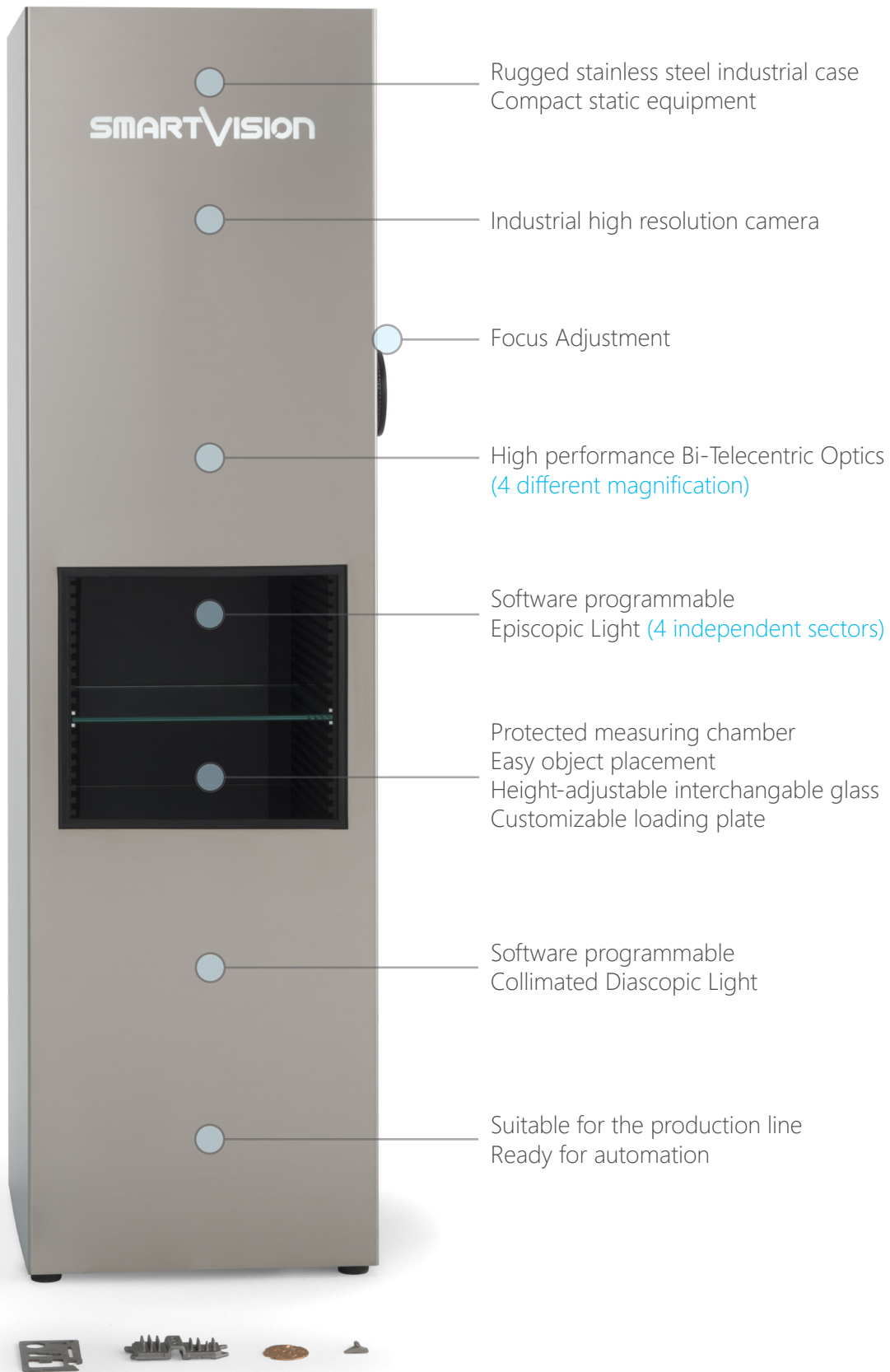
- Multi touch-screen software
- Automatic feature recognition



- Automatic data report
- CSV / TSV / TXT / DXF / PDF

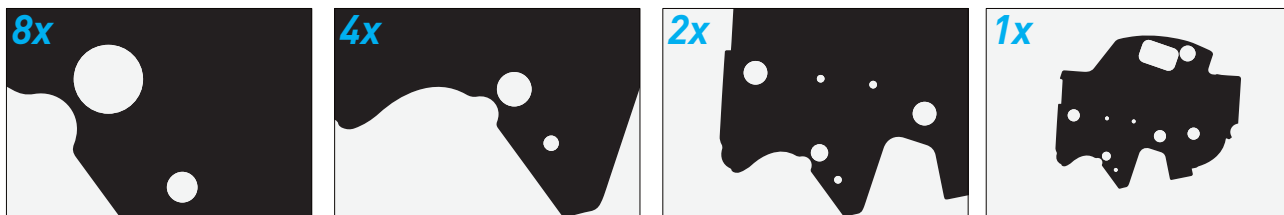
Features

High Performance ZOOM Video Measuring Instrument



Specification

High Performance ZOOM Video Measuring Instrument



Model Name	Smart_Projector_Quattro (S_P_Q_E_V)			
Light Receiving Lens	Double Telecentric Lenses			
Magnification	8x	4x	2x	1x
Field of View (FoV) ³ (mm)	Ø 10	Ø 20	Ø 40	Ø 80
FoV Area (mm ²)	78	314	1256	5026
Repeatability accuracy ⁴	±0.2 µm	±0.4 µm	±0.5 µm	±1 µm
Measurement accuracy ⁴	±2 µm	±2.5 µm	±3 µm	±6 µm
USB Camera (Mpixel)	4			
Measuring Chamber ⁵ (WxDxH mm)	200x225x200			
Dimensions (WxDxH mm)	282x330x1025			
Weight (kg)	40			
Diascopic Light ¹	Collimated			
Episcopic Light ²	Yes			

¹ Diascopic Light: Collimated Projector with green led light or Standard Directional led backlight.

Collimated projector intensity is software programmable when also episcopic light control (2) is available.

² Episcopic Light Control: 4 independent 90° sectors, software programmable, front / episcopic white diffused led light, made to order.

³ Standard models - other custom FoV available on request.

⁴ Precision of measurement (±µm) of a line, obtained measuring a specific calibration target located approximately in FoV center, best focus position, at 25° C ±1°.

⁵ The dimensions of the measuring chamber are not the dimensions of the Field of View, therefore they have not to be considered as test area.

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Product Highlights

- Suited for massive (production) quality inspection, in-line control, incoming inspection
- Increases number of quotas and quality check rate, up to 16000 checking features in a few seconds
- Performs full automatic reporting and SPC (Min, Max, Range, Average, Std Dev, 6 Sigma)
- Ready to connect with SPC software
- Suitable for unskilled operators use
- Flexible investment with a fast Return on Investment