



Flexible Digital Zooming Profile Projector 8-in-1

Smart_Projector_Quattro_Pro Pharma

High Performance ZOOM Video Measuring Instrument
for Primary Pharmaceutical Packaging

Smart_Projector_Quattro_Pro Pharma

High Performance ZOOM Video Measuring Instrument: 8-in-1



"Smart_Projector_Quattro_Pro Pharma allows automatic, objective, repeatable, easy and fast dimensional quality check of a wide range of items"

Eight in One

Smart_Projector_Quattro_Pro Pharma, with an innovative optical solution of zoom lenses, allows four different magnifications, changing the Field of View by software. It is an exclusive instrument designed to perform, in a easy and fast way, **a complete and automatic check of any pharmaceutical packaging**. This product can be positioned both horizontally and vertically, making it a 8-in-1 solution for complete and automatic dimensional check of a wide range of products, including bottles, vials, syringes, ampoules and cartridges, even if transparent.

Automatic and Productive

Smart_Projector_Quattro_Pro Pharma allows to **check an unlimited number of measurements per item in just few seconds**. There is no need for part alignment, no manual collimation nor focus and there are not moving components inside the machine. The benefits given by the flexibility of the zoom lenses and the accuracy of the fixed optics are merged together in this machine with no compromises in precision.

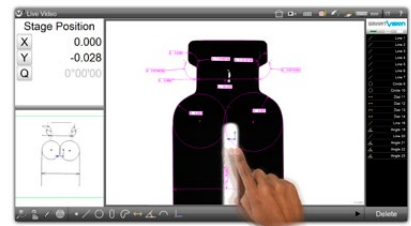
Accurate

Smart_Projector_Quattro_Pro Pharma provides objective and repeatable measurements and signals a simple «Pass / Fail» lamp output. **There is no contribution nor interpretation by the operator**, ensuring a full automatic evaluation and reporting of all control activities in compatible and ready-to-print Excel files, PDF and Image files.

Industrial and Compact

Smart_Projector_Quattro_Pro Pharma by SmartVision is a fast, compact, rugged, static, easy-to-use and easy-to-program device, **designed for harsh environments and heavy duty cycles use**.

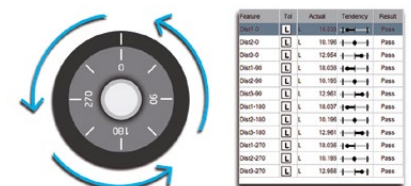
New Generation Software: TOUCH & MEASURE!



- Multi touch-screen software
- Automatic feature recognition



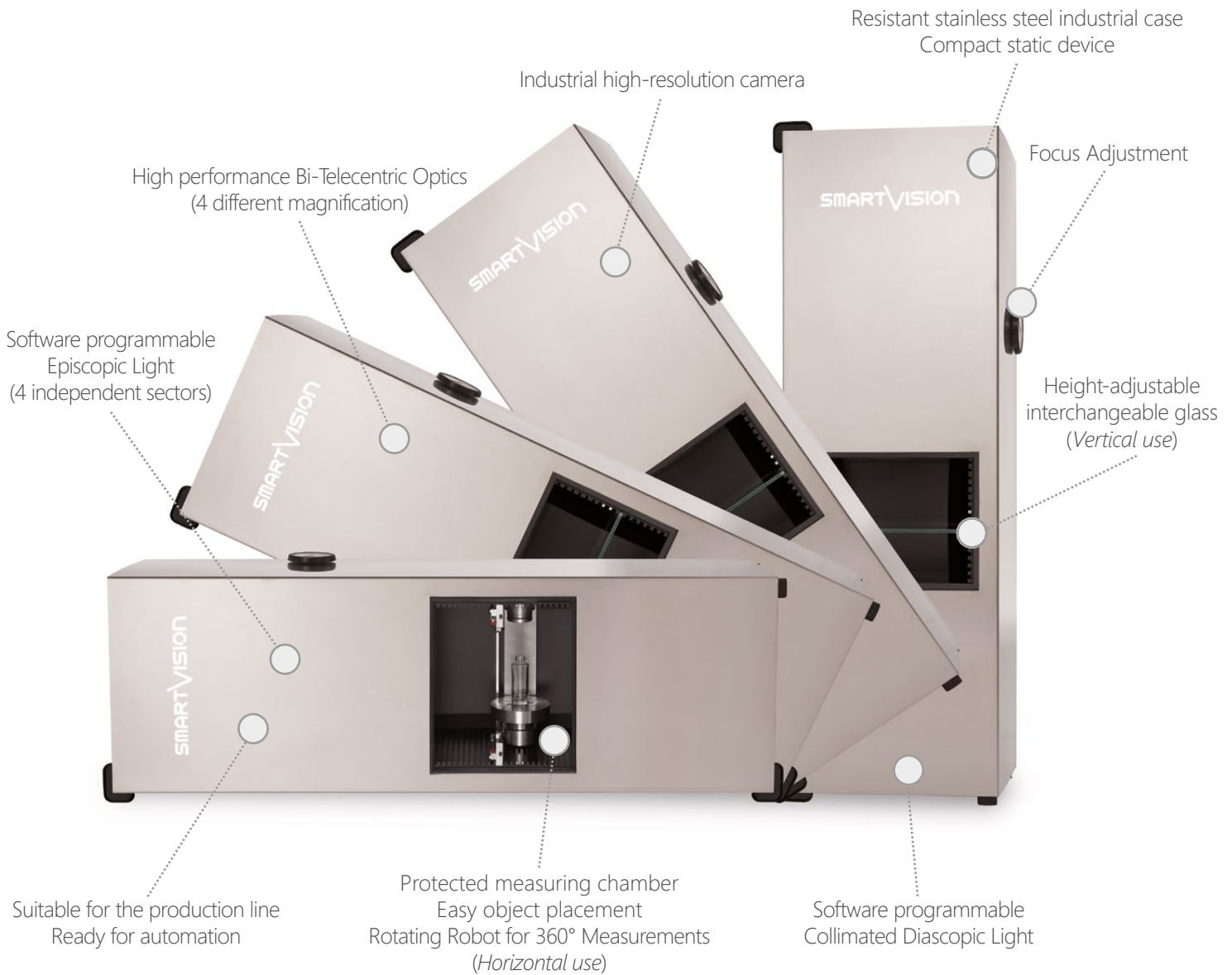
- Automatic data report
- XLXS / CSV / TSV / TXT / PDF



- Record steps for 360° view
- Variables and user messages

Hardware Features

High Performance ZOOM Video Measuring Instrument: 8-in-1



All-In-One Touchscreen PC



Powerful All-in-One PC Full HD with an intuitive **touchscreen measurement software** and easy to record programs. Automatic feature recognition, up to 16.000 per item.

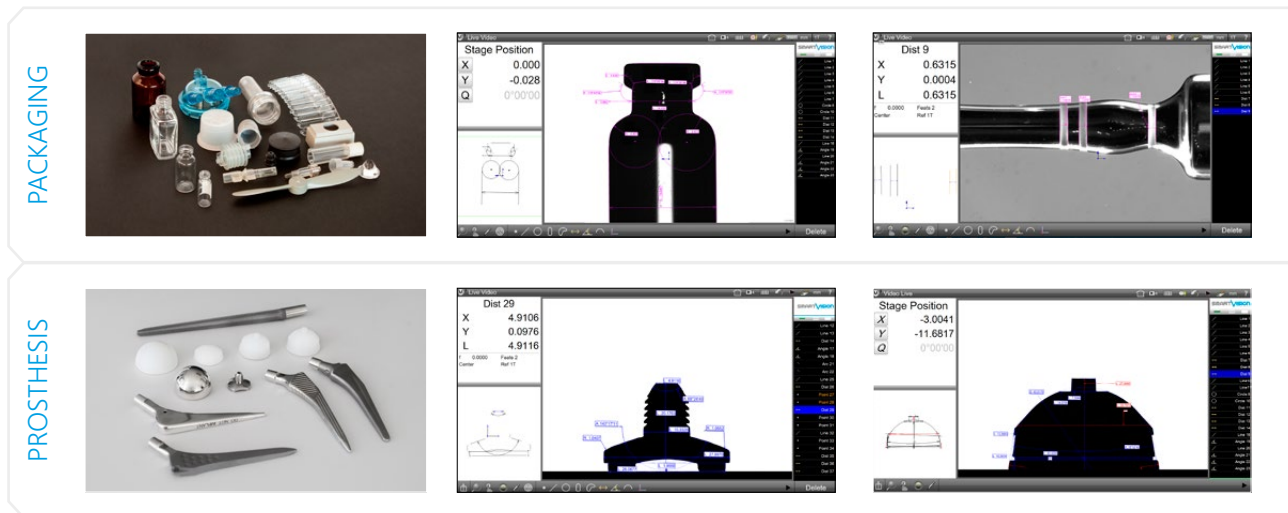
Smart_Rotating_Robot



Smart_Rotating_Robot with the control unit allow **quality control of cylindrical components** and any other item that needs to be examined on different projection planes at defined angles.

Smart_Projector_Quattro_Pro Pharma

Application Examples for Pharma Packaging & Medical Industry QC



Technical Specifications

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Magnification	8x	4x	2x	1x
Field of View ³ (FoV) (mm)	Ø 12	Ø 24	Ø 48	Ø 90
FoV ³ Area (mm ²)	112	452	1800	6360
Repeatability accuracy ⁴	±0.25 µm	±0.4 µm	±0.6 µm	±1 µm
Measurement accuracy ⁴	±0.4 µm	±0.8 µm	±1.5 µm	±3 µm
Measuring Chamber (mm) ⁵	203x225x200			
Diascopic Light ¹	Collimated			
Episcopic Light ²	Yes			
Light receiving lens	Telecentric			
Dimensions (mm)	282x330x1025			
Weight (kg)	42			
Communication Interface	USB 3			
Software Interface	Multilanguage: English, German, Spanish, French, Italian, Portuguese, Russian, Chinese, Japanese, Polish, Czech, Romanian (all languages are editable).			
Optional PC Devices	Powerful All-in-One PC, Full HD Touchscreen, Monitor resolution 1920x1080, Windows 11 PRO 64-bit			

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

³ Standard models - Other custom FoV available on request.

⁴ Precision of measurement (±µm) 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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