

ProteQ VISO combines stereoscopic 3D vision with advanced digital imaging capabilities in a single platform. The system provides natural depth perception for enhanced inspection accuracy, while enabling instant image capture and seamless sharing of results.

It empowers teams to navigate complex assembly processes with precision, identify defects earlier in the inspection workflow, and deliver clear, documented feedback to suppliers and customers.

[Enhanced Depth Perception](#)

ProteQ VISO provides stereoscopic viewing that aligns with natural human vision. Defects including burrs, pits, voids, and raised edges are clearly distinguished through accurate depth visualization relative to the surface. 3D stereo imaging reveals true form and structure, eliminating the ambiguity of shadows and highlights present in monoscopic views.

[Early Defect Detection](#)

Certain flaws are only identifiable through 3D observation. Stereo inspection delivers multiple viewing perspectives simultaneously, minimizing the risk of overlooked anomalies. The optional Oblique and Direct Viewer (ODV) enables oblique-angle observation, facilitating detection of concealed defects without sample repositioning.

[Collaborative Workflow Integration](#)

ProteQ VISO facilitates real-time team collaboration with synchronized detail viewing. Live streaming, picture-in-picture capability, and headset-free sharing enable rapid decision-making and effective communication across departments, facilities, and supply chains.

[Flexible System Integration](#)

VISO integrates seamlessly into established inspection workflows, enhancing reporting quality. Interface options, reporting tools, and workflow controls ensure consistent operation across teams with flexibility for regulated environments. The system supports goods-in inspection, supplier reporting, and in-process quality control, enabling earlier issue identification and accelerated decision-making.



3D View



Magnification

10x

Zoom



Overlays



Measurement



3D Image
Sharing

Objective Lens	Magnification Range	Working distance	Min. Horizontal Field of view	Max. Horizontal Field of view
X0.45	7.1x – 70.7x	6.93" (176mm)	0.19" (4.7mm)	1.85" (47mm)
X0.62	9.7x – 97.3x	5.04" (128mm)	0.14" (3.5mm)	1.38" (35mm)
X1.0	15.7x – 157x	2.95" (75mm)	0.09" (2.2mm)	0.87" (22mm)
X1.5	23.5x – 235x	1.69" (43mm)	0.06" (1.4mm)	0.55" (14mm)
X2.0	31.4 – 314x	1.14" (29mm)	0.04" (1.1mm)	0.43" (11mm)

High resolution stereo cameras
Digitalises left and right eye view of the subject in Full HD at 60 fps.

Auto-stereo display
Glasses-free 3D viewing with real depth perception.

Magnification
Range of objectives from X0.45 to X2.0.



360° Oblique and Direct Viewer (ODV)
View at a 34° oblique angle and rotate around subject.



Pilot stage
Smooth XY control for precise sample movement.

Contrast-enhancing base.
Improves visibility of fine features and translucent materials.



Adaptable stand options
Ergo stand: compact, ergonomic setup for bench inspection.
Multi-axis stand: flexible positioning for larger components or working space.



18° display tilt
Accommodates operators of different heights.

10:1 zoom
Continuous zoom with depth of field control and user-selectable position lock for repeatable viewing.

Optimise illumination
Intelligent quick-clip ring light with optional light filters for optimized illumination across different materials.

Keypad
Easy access to controls and presets.



SPECIFICATIONS

Features	
3D Image and Video capture and playback	Capture and share images and videos with 3D detail. Time and date saved to aid traceability.
Live 3D streaming	Share live 3D view between different locations. Remove the need cost and risk of travelling or shipping samples between sites.
Overlays	On screen overlays of crosshairs, reference marks or golden sample for easier, faster, more accurate working.
Annotation	Create and capture annotations as part of inspection reporting for clear reporting from the 3D view.
On-board measurement	Integrated dimensioning tools to aid efficient detailed inspection of subjects on one system.
Kiosk or PC mode	Ease of use in simple kiosk mode or full PC mode allowing more complex operation and add on of additional software.
Software add-on	Use other software to display, report on and manipulate captured images as required.
Magnification range	
7.1x – 314x	Wide range of magnifications for flexibility of different industries and applications.
Zoom	
10:1 zoom, with iris control and a user selectable lockable detent position	Iris controls the depth of subject that is in focus allowing greater depth to be seen or features to be visually separated from background and other surroundings. Detent gives one customizable lockable zoom position that can be returned to quickly and easily.
Screen tilt	
18 degrees	User comfort is increased for users of different heights.
Resolution	
Screen 3840x2160 pixels	Captures and displays images clearly with great level of detail.
Camera 2x 1920x1080 pixels @ (60fps)	60FPS displays moving subjects clearly without motion blur.
Viewing distance	
380 – 800mm (eye to screen)	Users can sit comfortably at the workbench or maintain a clear area over a large subject.
Image control	
Exposure and image settings	Get the best image for your subject with set of controls to enable optimisation of the image
Lighting	
Keypad control with 3x presets	Optimize lighting for each subject with range of lighting options and lighting.
Save/recall presets	Presets make changing to preferred options quick and easy.
Languages	
English, French, German, Spanish, Italian, Brazilian Portuguese, Chinese, Japanese and Korean.	To allow users easy operation in their preferred language.



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