

Revolutionary Digital Stereo Microscope – ProteQ VISO.

One of the most significant advances in stereo microscopy in years - just got better. Expansion of the digital stereo segment with new features and smaller footprint.

Vision Engineering is delighted to announce the launch of ProteQ VISO, a digital stereo microscope with a fully integrated 'autostereo' display, enabling true flat screen 3D image viewing without traditional eyepieces.

ProteQ VISO combines benefits of eyepiece-less stereo microscopes and digital mono microscopes in one unit. The bright, clear three-dimensional view with full depth perception can be saved, replayed and shared from one system. Additional tools for measurement, overlays, annotation and communication are available on the system. Making new part validation, inspection, production, assembly and rework tasks faster, easier and more efficient.



ergonomic stereo microscopes • digital inspection systems • optical & video measuring systems • custom optics • product design & manufacture

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Vision Engineering Ltd has been certified for the quality management system ISO 9001:2015.

Key Highlights:

- Stereo 3D view with depth perception; View, Capture, Replay & Share in 3D
- Digital tools to aid production and inspection tasks, increasing efficiency and ease of use.
- Ergonomic system comfortable for users, efficient for businesses
- Faster, better informed decisions without need to travel or ship parts
- Magnifications 7x – 314x

Engineered for inspection labs, new product development and prototyping functions, production and rework tasks, ProteQ VISO offers a leap forward in user comfort, collaborative efficiency and digital versatility, compared with 2D systems. Ideal for precision workflows including electronics, prototyping, and medical device development.

Autostereo display

ProteQ VISO's autostereo is a 3D LED Display technology, does not require additional glasses or any other tools to provide vivid 3D images. Viewers enjoy the immersive experience of 3D images with less visual fatigue. Twin cameras located in the monitor control eye tracking software that ensures the user receives perfectly clear 3D images, whilst enabling freedom of head movement.

Designed for Ergonomics, Built for Efficiency

ProteQ VISO's upright viewing position, adjustable screen, and eye-point comfort redefine ergonomic microscopy, minimising fatigue and maximising productivity over extended sessions. Combined with live magnification indication and seamless 10:1 zoom, users can work with precision and ease.

The microscope's stereo image capabilities enhance depth perception, allowing intuitive 3D interaction during inspection and prototyping. When collaboration is key, users can view in mono or stereo viewing, enabling real-time discussion and shared analysis — whether in person or remotely.

Empowering Digital Collaboration & Connectivity

ProteQ VISO introduces a suite of digital features for modern technical teams:

- Stereo Image Capture, Playback, and Streaming: Capture images and video to USB or integrated PC and share effortlessly across platforms.
- Picture-in-Picture & Overlays: Reference views alongside live images with overlay support and preset saving.
- Annotation & Dimensioning Tools: Add notes, measure features, and streamline reports
- Peripheral & Network Integration: Compatible with external software such as Dimension Two; users can access emails, Teams, and files directly from the interface.

The system also includes thoughtful touches for delicate applications — low-heat lighting, and a separatable display for both safety and clean cabinet setups. With lockable detents, quick-change lighting components, optional 360-degree viewer, and sub-stage illumination, ProteQ VISO supports precision with flexibility.

The areas listed below have been identified and include a range of value levels that incorporate the need for manual viewing.

- Medical device
- Precision engineering
- Mission critical components
- Production quality control
- New product development and prototyping
- Goods-in inspection
- General production

System key components

Item	Benefit
ProteQ VISO lenticular display	Autostereo display, projects separate left and right eye images into users eyes giving a 3D view with depth perception.
Controller PC for ProteQ VISO	PC to control the ProteQ VISO and enable special features of 3D streaming, picture in picture, annotation, overlays and dimensioning.
Stereo Camera	High-definition image with low latency and a fast frame rate is good for manipulation tasks.
Lighting	Quick release clip-on ring-light illuminates subject clearly
Stands	Compatible with Lynx EVO Ergo stand and Multi-axis stands

Objective Lens	Mag. Range	Working Distance	Min. Horizontal FOV	Max. Horizontal FOV
X0.45	7.1x – 70.7x	176mm	4.7mm	47mm
X0.62	9.7x – 97.3x	128mm	3.5mm	35mm
X1.0	15.7x – 157x	75mm	2.2mm	22mm
X1.5	23.5x - 235x	43mm	1.4mm	14mm
X2.0	31.4 - 314x	29mm	1.1mm	14mm

Position in the range – How to choose.

ProteQ VISO vs. Lynx EVO

Choose ProteQ VISO for:

- Capture, Review and Share
- Collaboration. 3D image sharing and receiving
- Inspection assistance: Overlays, In view magnification
- Reporting: Annotation and Dimensioning

Choose Lynx EVO for:

- Lower cost if image capture is not required
- If PC controller not permitted
- Lower minimum magnification

ProteQ VISO vs. DRV-Z1

Choose ProteQ VISO for:

- Smaller footprint
- Lower system cost
- Inspection assistance: Overlays, In view magnification
- Reporting: Annotation and Dimensioning

Choose DRV-Z1 for:

- Zero cross talk
- Slightly higher perceived resolution
- Lower minimum magnification

ProteQ VISO vs. EVO Cam digital microscopes

Choose ProteQ VISO for:

- 3D view and depth perception
- Hand to eye coordination
- Two-way image sharing in 3D

Choose EVO Cam systems for:

- Large zoom range flexibility
- 4K resolution (EVO Cam HALO)

Part numbers:

The new ProteQ VISO kits will start to become available soon and comprise several components. For ease of ordering, we have consolidated all the common items under one system number, where only the objective lens and the stand need to be selected separately. Details are in the table below.

Part number	Description
PTQ901	ProteQ - VISO Core kit. Includes: Monitor, Stereo Camera, Mounting bracket, Zoom, Lighting adaptor, High power ring-light, Controller PC & hardware kit, Keypad *Requires: Objective lens and stand to be a complete kit.*
OBL304	X0.45 objective lens for ProteQ Viso
OBL306	X0.62 objective lens for ProteQ Viso
OBL307	X1.0 objective lens for ProteQ Viso
OBK308	X1.5 with light adapter objective lens for ProteQ Viso
OBK309	X2.0 with light adapter objective lens for ProteQ Viso
OBL308	X1.5 objective lens only - for ProteQ Viso
OBL309	X2.0 objective lens only - for ProteQ Viso
PTQ151	360 degree rotating and direct viewer for ProteQ Viso
EVB012	EVO ERGO stand Mk II *If sub-stage illumination is required, add ECI304*
EVB014	Slimline Ergo stand
EVB021 + EVF110 + EVB022	EVO Multi-axis stand column and boom + Focus assembly + Plain base for multi-axis stand *If sub-stage illumination is required, replace EVB022 with EVB026*