Vision
ENGINEERING

vi plus

Enhanced inspection, image capture, measurement & reporting software

Compatible with EVO Cam II, Mantis & Lynx EVO SmartCam

Measurement, annotation, analysis & reporting

Focus stacking capability

Overlays & measurement over a live image

Image enhancement

Auto shape detection

Simple, straightforward software

Image capture, measurement & analysis software

ViPlus is a fully featured PC software package with image capture, measurement, image enhancement and reporting capabilities.

The software enables details within images to be made clearer using tools such as focus stacking and edge detection. Inspection is also made easier by use of overlays, measurement over live images and DXF compatibility. This results in a more accurate and better quality inspection, which saves time, makes the overall inspection process more efficient and ultimately more cost-effective.

ViPlus also enables direct connection to Vision Engineering cameras - extending their potential.

Capture brilliant images

With all Vision Engineering products the user is at the heart of the design. ViPlus perfectly complements Vision Engineering's digital inspection products, adding to the brilliant imaging a comprehensive and customisable set of features that can be customised to meet each customer's exacting requirements. Image capture for documentation is made fast, simple and adaptable.
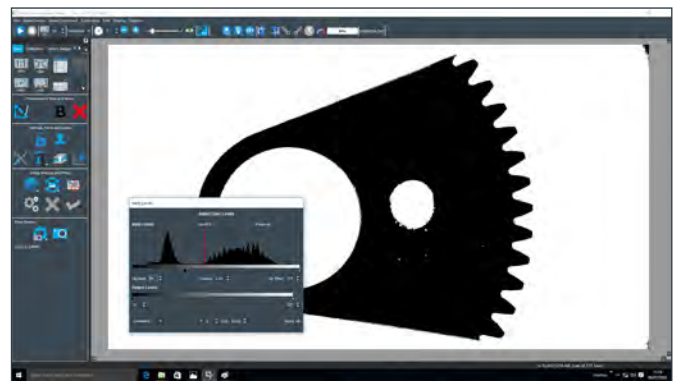
Ease of use

With ViPlus it is possible to save and recall camera settings making operation quick, repeatable and consistent. Features can also be customised to enable a more efficient operation. Display overlays and annotations over live images from annotation also help to make checking details simpler and less time-consuming.

ViPlus is also compatible with DXF files, which makes it is an easy interface to use with CAD software - it couldn't be easier to check items against technical drawings.

See the unseen

Uncover hidden details with features such as selective thresholding, canny edge detection, colour and contrast control plus numerous other digital filters. ViPlus also offers an alternative view window, which allows a user to simultaneously view a full image whilst examining a more specific detailed area at the same time.
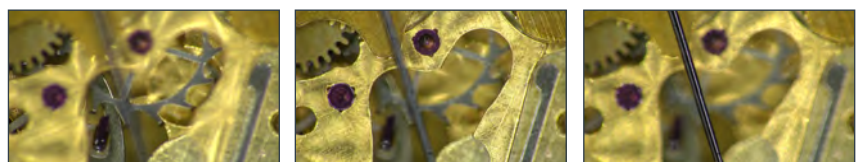

Adjusting threshold levels helps to reveal hidden details

Focus stacking

Focus stacking can be used to demonstrate the depth of focus of a component. The tool extends what is visible and artificially builds layers of images to smartly display details that would not otherwise be possible. Dynamic or fully manual, focus stacking is especially important at higher magnifications, where depth of field would otherwise prevent the full view of the subject.

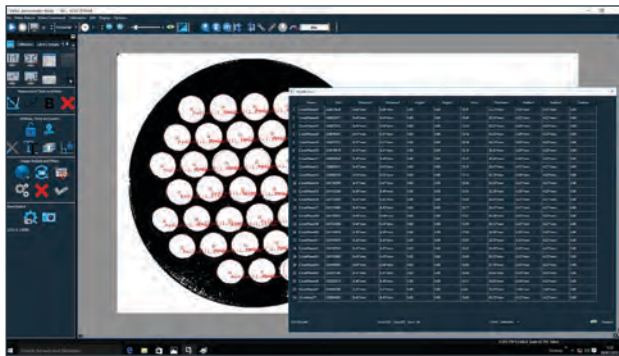Focus stacking is ideal for images with components of varying depths

Reporting made easy

Annotation is easy with the ability to draw on a range of preloaded scalable icons, rulers and/or stamps. Using these help to keep reporting professional and efficient.

Similarly measurement is quick and simple due to working over live or static images. A user can conveniently select from a line, point, ellipse, etc. An 'anchor point' feature also automatically detects an edge to help with selection.

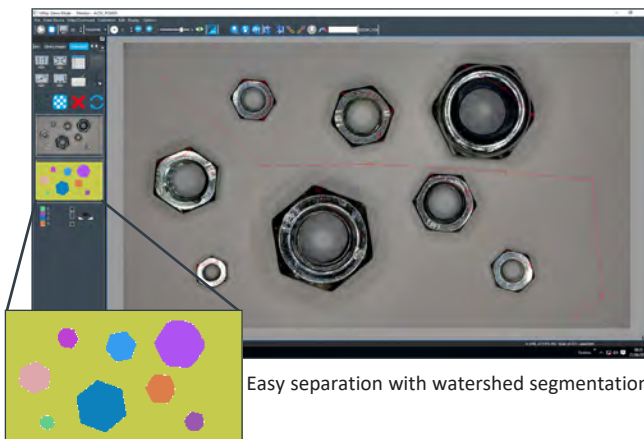Measurement data is automatically tabulated for easy inclusion in inspection reports.

Mark-up, annotation and reporting made easy

Analyse and detect

Go beyond simple inspection and measurement with ViPlus detection and analysis tools. Save time with the auto detect functions - searching for features and reporting instantly in easily exportable formats.

Segment areas in an image for easy separation of features and automatically compare similar images to highlight differences, regardless of orientation.

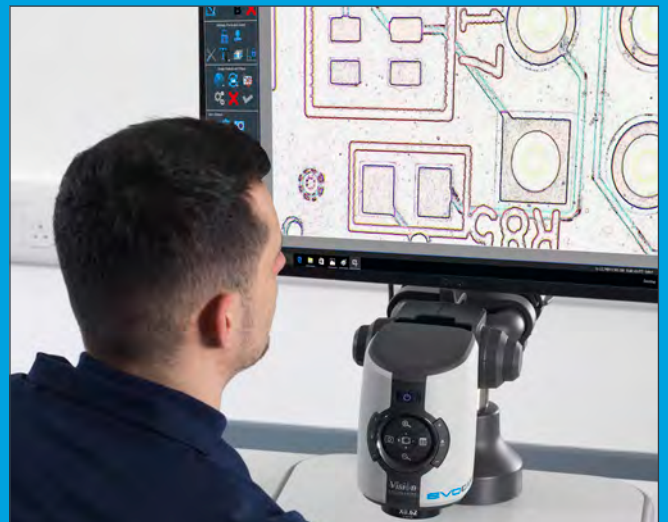Easy separation with watershed segmentation

Features specific to EVO Cam II

EVO Cam II can be controlled remotely - direct from a PC, eliminating the need to move back and forth between camera and computer. Users can be remote from the camera in situations where they need to be protected from hazardous samples or where samples need protecting from users.

Also included:

- Focus stacking
- Zoom and focus control; speed and position
- Illumination control – ring-light, sub-stage light, external illuminators
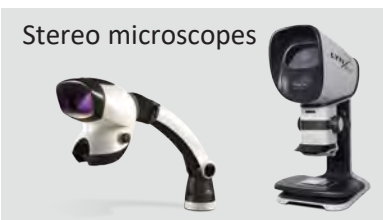- Exposure control; auto or manual

Full feature list

☾ **Image display:** Full screen, zoom in, alternate view window, results view

☾ **Focus stacking:** auto/manual, 2-32 images

☾ **Crosshair pointer** to aid accurate point selection when measuring

☾ **Quick save options:** save images, annotation, image and annotation

☾ **Import and export DXF files**

☾ **Annotation and measurement of features:** line, point, ellipse, circle, arc, curve, rectangle, polygon, polyline, cross and anchor point (snap to edge)

☾ **Layering of mark-up and annotations**

☾ **Setting fonts and line sizes**

☾ **Measurement between features:** distance, angle, circle, projection, intersection and tangent

☾ **Automatic creation of measurement table:** for quick reporting of measurement details

☾ **Auto detection and reporting of area, perimeter, radius and diameter** for: circles, circle shapes, form area, form area margin, shape area, form poly area, shape poly area

☾ **Editable text and graphical annotations**: text, arrow, icon, insert image, area magnifier, ruler, stamp, protractor, horizontal/vertical lines, circle

☾ **Image filters and enhancement capabilities**: fixed threshold, threshold, canny edge, colour edge, equalize, manual histogram, auto histogram, gamma and colour levels, auto segment, voronoi, despekle, invert, protanopia, deuteranopia and triantopia

☾ **System requirements:** We recommend using a setup with - CPU: Intel i5 or i7, RAM of at least 8Gb, Windows 10 Pro 64 bits, at least one USB3 chipset and a minimal screen resolution of 1280 x 960

Demo version available

A demo version of the ViPlus software is available, that can be used without a licence key. Software can be used freely for testing prior to purchase with few restrictions.

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