

# CLEAR | EASY | FLEXIBLE

Excellent optical performance makes EVO Cam II a powerful imaging solution, with a range of options to ensure exceptional clarity for any application. Intuitive design simplifies operation and minimises training requirements, making EVO Cam II a powerful and flexible tool, ideal for multiple applications, users and a variety of environments.

EVO Cam II is an easy-to-use high definition digital microscope, with a range of configuration options which make it suitable for wide variety of applications.

EVO Cam II's unique combination of high quality image, ease of use, and flexible configuration to meet the demands of a range of tasks, is commonly used for quality and inspection activities in multiple industries, including: Electronics, Medical Device manufacture, Aerospace, Automotive, and Life Science.



# EVO Cam II – powerful, flexible and easy to use – all the tools you need to simply and quickly achieve your Quality goals.

#### Easy user set up

EVO Cam II offers two levels of user settings to ensure operators have the correct level of function access.

Simple to understand display- the on screen function description gives users information about EVO Cam II's controls in any one of 10 pre-loaded languages.

Easy teams set up- Minimise team setup time and ensure all your systems are configured identically by exporting the settings from your master EVO Cam II and share with the team. Store your settings files for later recall.

**Powerful and effective tools** deliver consistency, efficiency and ease to your Quality system

Improve operator throughput, consistency, and quality standards with the right range of simple, effective capabilities including:

Instantly compare the difference between a recorded sample and the sample being inspected

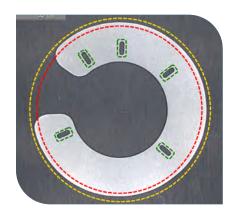
30:1 zoom ratio means magnifications from 10x to 300x can be accessed with a single objective lens

Use hotkeys and shortcuts to quickly access functions

Save the most commonly used camera settings with up to ten presets. Choose the optional remote control to improve user comfort and enable quicker access to preset system settings.

Use overlays for instruction, comparison or measurement by placing a partially transparent image over the top of the sample view.

Customise the zoom range to ensure the correct inspection settings



Custom overlay example

Easily capture and share images using wi-fi - ideal for multiple users to quickly view and download images.



Calibration tracking example

## **EVO Cam II for simple** measurements

Perform simple measurements with EVO Cam II's digital caliper or scaled grid. No need to transfer to a separate measurement station.

Calibration tracking through the zoom range enables measurement at different points in the zoom range without risk.



Outstanding image quality



Overlay & image comparison



On-board measurement



WiFi image

transfer

Quick access

settings



tracking with zoom



Import, export settings



# **EXCELLENT SUBJECT CLARITY**

Exceptional image quality is delivered in full HD resolution with excellent clarity without latency.

#### **Maximum Image Quality**

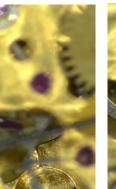
EVO Cam II's wide range of precision objectives and wide-field lenses gives you the flexibility to customise your own application specific solution, enabling you to focus on the job.

Two auto and one manual exposure modes with depth of focus control, let you set how much of the subject should be in focus.

Brightness reference levels set the desired level for the auto exposure capability.

Auto white balance and dynamic range expansion digitally extend the ability of the system.

Achieving maximum image clarity is additionally supported utilising the latest back-illuminated sensor technology, dedicated image processing and noise management.







# **Focus stacking**

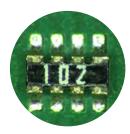
Focus stacking gives you the capability to see an in-focus image in a single view even when the subject has features (depth) beyond the depth of focus of a single exposure.

# 360° rotating viewer

Add an extra dimension to standard 2D imaging with direct and rotating oblique views of your subject. Utilise the power of motion to enhance three dimensional understanding by rotating the view around the centre of the image.

Including an integrated 8-point LED ringlight and objective lens, the 34° degree oblique view allows views around the inside of holes or around the sides of raised components and solder joints















# FLEXIBLE ENOUGH FOR TODAY AND TOMORROW

Perfect for today's Quality requirements, and as your inspection needs evolve, so does your EVO Cam II.



#### **Objective lenses**

A range of objective lens options ensure optimum results for any application, whether for high magnification, high precision detailed inspections, or for manipulation, re-work and assembly tasks requiring an extra long working distance.

#### **Precision objective lenses**

Ultra-high resolution and contrast, optimised for precision magnification work with definition excellence.

#### Wide-field objective lenses

Wide field of view, provides maximum flexibility and large zoom range.
Suitable for large area subjects.

## Micro objective lenses

High optical magnification of very small subject areas and details.

# ILLUMINATION FOR ALL APPLICATIONS

EVO Cam II gives you access to a wide range of lighting options to meet the need of your specific application.

# Illumination – get the right light for the right task

Better control of your lighting gives better control of your results.

Select the right lighting options to exactly meet your illumination needs – whatever your task.

### **Episcopic (EPI) illuminator**

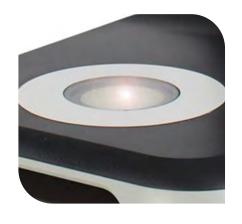
Inspection of any item requires light. Delivery of light down small bores, between tightly packed or tall components can be difficult. The EPI illuminator delivers light along the optical axis, meaning if the camera can see a subject it can be illuminated.

Ideal for even the smallest of holes.
The swing in/swing out design means it can be called on at a moments notice without affecting normal operation.



## **Substage illumination**

Light your subject from beneath, particularly useful for inspection of translucent materials, including plastics and optics.



#### **Ultra Violet ring-light**

Commonly used in electronics, aerospace and forensics, Quadrant white and UV illuminator is used for inspection of UV fluorescing coatings, dyes and security features.



#### **Light Filters**

Choose exactly the filter you need from the range of objective and ring-light filters available, to enhance details not easily seen by the human eye. Colour temperature and polarised filters help to enhance details and contrast. Selectable colour filters simulate light from different light sources.



#### Flexible illuminators

Optimise light to highlight components, enhance depth perception or control reflections. Ideal for large area reflective subjects.





# **Keep it compact - Mini** monitor mounts

For use when desk space is at a premium – mount a 10" or 12" monitor simply and directly to an Ergo stand and view images inline.



## Wifi dongle

For use when transferring images from EVO Cam II to a computer. Allows the user to quickly view and download images and videos, and is ideal when access for multiple users is required.



## **Remote control**

For hand-held camera control; improves user comfort and includes quick access to pre-sets.



## **Floating stage**

Ideal for checking uniformity of components or inspecting sensitive samples, use EVO Cam II's floating stage in conjunction with your choice of ERGO or Bench stand to provide smooth and precise control.

# EVO Cam II offers six stand configurations that can be fully adapted to your needs.



### Multi-axis stand Ergo

- Integrated gas strut making operation quick and effortless.
- Available with platform base, or mounted directly to the work surface.



#### **Ergo stand**

- Exceptional stability for high magnification use.
- Transmitted substage illumination option.
- Floating stage option.
- Coarse and fine focus control for high magnification subjects.



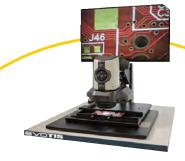
#### **Double-arm boom stand**

- Extended reach, without compromising stability.
- Easy adjustability allows precise positioning and alignment.
- Available with platform base, or with clamp.



#### Single-arm boom stand

- High stability boom stand, ideal for larger specimens.
- Robust stand option, complete with heavy duty platform base and focus module.



#### **EVOTIS** advanced inspection workstation

Enables EVO Cam II to quickly and efficient inspect fine details on large area subjects such as PCBs and multilayer components. Available in 3D and 2D configurations, EVOTIS features an independently lockable X-Y stage for methodical inspection along rows of component characteristics.



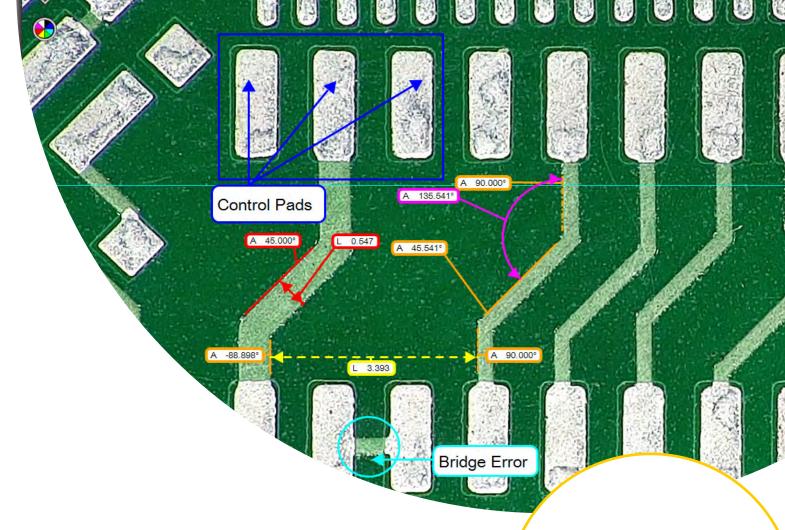
#### **Bench stand**

- Compact unit with lowprofile base and integral transmitted substage illumination.
- Floating stage option.
- For use with 1.0x objective.



#### **Articulated arm stand**

- Designed for applications requiring extended reach, with ultimate flexibility.
- Multi-point adjustability allows precise positioning and alignment.



# SOFTWARE OPTIONS

Tailor your EVO Cam II capability by integration with your choice of software.

# A range of software for a range of applications

Select from a range of easy to use image capture and on-screen image measurement software where all of the necessary content has been refined for ultimate ease of use.

#### **DimensionTwo**

DimensionTwo is the ideal extension to EVO Cam II inspections. Quick, easy calibrated measurements allows capture and sharing of vital data with colleagues, customers and suppliers.

|                       | ViCapture | DimensionOne | DimensionTwo | ViFoxEVO | ViPlus |
|-----------------------|-----------|--------------|--------------|----------|--------|
| Image capture         | ✓         | ✓            | ✓            | ✓        | ✓      |
| Annotation            | ✓         | ✓            | ✓            | ✓        | ✓      |
| On screen measurement |           | ✓            | ✓            | ✓        | ✓      |
| Overlays              | ✓         |              |              | ✓        | ✓      |
| Reporting             |           | ✓            | ✓            | ✓        | ✓      |
| Advanced functions    |           |              |              | ✓        | ✓      |
| Focus stacking        |           |              |              | ✓        | ✓      |
| Edge detection        |           |              | ✓            | ✓        | ✓      |
| Shape detection       |           |              |              |          | ✓      |
| X-Y image stitching   |           |              |              | ✓        |        |

## **Ergonomics and detailed working**

EVO Cam II overcomes the difficulties of conventional binocular eyepiece microscopes by preventing the need to lean over the system. Ergonomics extend to hand and arm position through the use of the external keypad.

If you require the benefits of the depth perception that come with a stereo microscope take a look at our range of ergonomic eyepiece-less stereo microscope systems.



# TECHNICAL INFORMATION

There are several factors that are inseparable when selecting working magnification. As magnification increases, field of view and working distance decrease.

| Objective lens              | Magnification zoom range* | Working distance | Field of view at min.zoom | Field of view at max.zoom |
|-----------------------------|---------------------------|------------------|---------------------------|---------------------------|
| Precision objective lenses  |                           |                  |                           |                           |
| 0.45x                       | 2.3x - 68x                | 160 mm           | 241 mm x 134 mm           | 7.8 mm x 4.2 mm           |
| 0.62x                       | 3.1x - 93.7x              | 106 mm           | 173 mm x 96 mm            | 5.5 mm x 3.1 mm           |
| 1.0x                        | 5x - 151.2x               | 82 mm            | 88 mm x 57 mm             | 3.5 mm x 2 mm             |
| 1.5x                        | 7.6x - 226.8x             | 43 mm            | 45 mm x 36 mm             | 2.3 mm x 1.2 mm           |
| 2.0x                        | 10x - 302.4x              | 29 mm            | 37 mm x 27 mm             | 1.5 mm x 1.0 mm           |
| Wide-field objective lenses |                           |                  |                           |                           |
| 2 dioptre                   | 0.8x - 24x                | 500 mm           | 660 mm x 370 mm           | 21.5 mm x 12.0 mm         |
| 3 dioptre                   | 1.15x - 32.6x             | 330 mm           | 390 mm x 225 mm           | 14.7 mm x 8.4 mm          |
| 4 dioptre                   | 1.71x - 51.41x            | 245 mm           | 293 mm x 171 mm           | 10 mm x 5.5 mm            |
| 5 dioptre                   | 2.12x - 65.5x             | 197 mm           | 232 mm x 135 mm           | 8 mm x 4.5 mm             |
| Micro objective lenses      |                           |                  |                           |                           |
| 5x                          | 250x - 378x               | 21 mm            | 2.2 mm x 1.3 mm           | 1.4 mm x 0.8 mm           |
| 10x                         | 500x - 756x               | 21 mm            | 1.1 mm x 0.65 mm          | 0.7 mm x 0.4 mm           |
| *Using a 24 inch screen     |                           |                  |                           |                           |
|                             |                           |                  |                           |                           |

#### With 360° Optical Viewer

| Setting            | Zoom ratio | Zoom range | Working distance | Field of view at min. zoom | Field of view at max. zoom | Viewing angle     |
|--------------------|------------|------------|------------------|----------------------------|----------------------------|-------------------|
| 360° rotating view | 5.3:1      | 19x - 105x | 35.5 mm          | 25.7 mm x 22.1 mm          | 2.6 mm x 2.2 mm            | 34° from vertical |
| Direct view        | 5.3:1      | 28x - 151x | 56.5 mm          | 19.7 mm x 11.2 mm          | 1.6 mm x 0.9 mm            | -                 |



| MAIN SPECIFICATION                         |  |  |
|--|--|--|
| Camera                                     | Full HD  |  |
| Surface illumination                       | 8-point ring light. Colour temperature 5,500K (adjustable with filter options)               |  |
| Sub-stage illumination                     | Optional   |  |
| Front panel control                        | On/Off, zoom in, zoom out, overview, surface illumination level, sub-stage illumination      |  |
|  | level, image capture, menu   |  |
| Remote control                             | Optional   |  |
| Interfaces                                 | HDMI, USB3 (PC connection), USB2 (stand alone image capture), WiFi (optional)                |  |
| CAMERA SPECIFICATION                       |  |  |
| Camera zoom                                | 30:1   |  |
| Digital zoom                               | 12:1   |  |
| Camera resolution                          | 1920x1080  |  |
| Sensor                                     | 1/2.8" CMOS back-illuminated   |  |
| Frame rate                                 | 50fps & 60fps (switchable)   |  |
| Saved file type                            | PNG, JPEG+,JPEG,JPEG-  |  |
| FEATURES                                   |  |  |
| Premium licence                            | Focus stacking (max.depth 110mm)   |  |
| Inspection features                        | Image comparison, overlay, supervisor settings lock, customisable zoom range, save/          |  |
|  | import/export settings   |  |
| Reporting features                         | Image capture, time stamp  |  |
| Measurement features                       | Virtual caliper (x-axis separation, y-axis separation, diagonal - point-to-point), scaleable |  |
|  | grid, overlays, calibration tracking   |  |
| General features                           | Image capture, image playback, noise reduction, light control                                |  |
| Exposure control                           | Auto, aperture priority, manual  |  |
| Focus control                              | Auto, manual   |  |
| Keypad shortcuts                           | Presets, white balance, front panel lock, AE/ME switching, AF/MF switching                   |  |
| Features retained in supervisor mode       | Image capture, zoom, lighting control, overlay on/off, caliper on/off, grid on/off, recall   |  |
|  | presets 1-10, image comparison on/off, image playback, focus stacking (all other settings    |  |
|  | locked)  |  |
| Features retained in front panel lock mode | Image capture  |  |
| User programmable presets                  | 10 (Save, import/export)   |  |
| Image capture                              | USB memory stick or via PC connection  |  |
| Languages                                  | English, French, German, Spanish, Italian, Portuguese, Russian, Chinese, Japanese, Korean    |  |
| Image mode                                 | Auto white balance, black and white, wide dynamic range, noise reduction, infrared mode      |  |
|  | capture button action  |  |



# VISION ENGINEERING + OUR DIFFERENCE

Vision Engineering Ltd. has been designing and manufacturing high quality ergonomic microscopes, digital instruments, inspection and non-contact measuring systems for over 60 years.

#### **Innovation**

With a philosophy of design innovation, Vision Engineering holds world patents for a number of optical/digital techniques, significantly improving viewing ergonomics and enabling customer quality and productivity improvements.

#### Quality

Vision Engineering prides itself on quality products, electronics, mechanics and optics and is certified for the quality management system ISO 9001:2015 and calibration accreditation ISO 17025:2017. Quality is as important to us as it is to our customers. Our systems have proved themselves many times over and are chosen by the world's leading companies.

#### Global

Vision Engineering has manufacturing and design facilities in the UK and USA, plus sales and support offices throughout Europe, the Americas, the Far East, and Asia. We support our customers with close technical and service support anywhere in the world.

**To see our focused quality**, please contact your Vision Engineering branch, local authorised distributor, or visit our website: visioneng.com

Sales Partner

CA CA

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Vision Engineering Ltd. has been certified for the quality management system ISO 9001:2015 and calibration accreditation ISO 17025:2017.





# POWERFUL - FLEXIBLE - INTUITIVE

Vision Engineering's EVO Cam ICON digital microscope offers outstanding value as a versatile, easy-to-use imaging solution that delivers uncompromising optical performance.

#### **Powerful**

EVO Cam ICON enhances your inspection accuracy and efficiency with striking clarity and detail. The high-quality camera, sensor, bespoke objective lenses, and advanced software features work together to deliver stunning image quality.

With a 30:1 optical zoom range and up to 725x magnification, you can easily detect those anomalies. The digital zoom extends this to further, while full HD video, manual and automatic focusing ensure ultra-sharp images every time.

The powerful processing capabilities allow for rapid image capture and analysis, making your inspection processes faster and more efficient.

#### **Flexible**

EVO Cam ICON offers exceptional flexibility, making it a compelling solution in a variety of environments.

Configure 10 pre-sets for quicker transitions between tasks or operators. Integrate additional units effortlessly by sharing settings. Customise with a comprehensive range of stands, objectives and other accessories to suit your workspace and application.

It is easy to adapt EVO Cam ICON to meet your evolving inspection needs, quality requirements and industry standards.

#### Intuitive

With its clean design and interface, you will find operating EVO Cam ICON straightforward, efficient, and seamless to integrate into your workflow.

Out of the box, you can set EVO Cam ICON up in minutes. Then simply turn the camera on to begin viewing and capturing full HD images. The intuitive on-screen controls and multiple language options mean that you are quickly proficient with minimal training.



Large zoom

range



Outstanding

image quality





transfer

WiFi image Import, export settings



On-board measurement

Quick access settings



# EVOCAM







Medical device manufacturing is a heavily regulated industry. Choosing EVO Cam ICON as your digital microscope solution gives you outstanding clarity to identify subtle anomalies as well as to capture high definition images for traceability and compliance reporting.

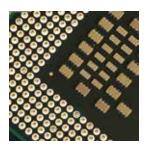
# **Precision Engineering**

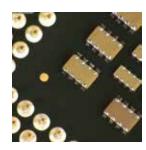
When you are designing, manufacturing and maintaining machinery and components with tight tolerances and high accuracy, EVO Cam ICON delivers exceptional image quality to enable you to easily qualty check and measure your parts meet required specifications.

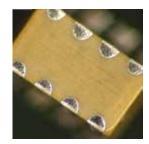


With powerful imaging capabilities, application flexibility, and an intuitive interface, EVO Cam ICON is an indispensable tool for enhancing accuracy and efficiency.

**High quality images:** A 30:1 optical zoom range, delivering optical magnification up to 725x, lets you see the detail you need to really understand the subject.

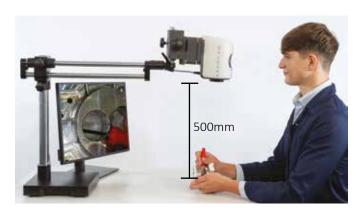






**Large field of view:** View more of your subject with ease with up to 660 mm viewing area.

**Long working distance:** There is ample space for tool manipulation if you have repair or rework tasks to complete under magnification.



**Easy image capture:** Capture high resolution images at the touch of a button either direct to a USB memory stick, via wireless or direct to a PC.

**Consistency:** Consistent quality inspections across multiple units, multiple users and multiple sites, with 10 customisable presets that are easy to share.

**On-board measurement:** Deliver fast and reliable measurements across different points of your subject, critical for safety and performance.



**Customise:** A wide range of stands, lenses and accessories to ensure your EVO Cam ICON set-up to suits your workflow, now and into the future.



# TECHNICAL INFORMATION

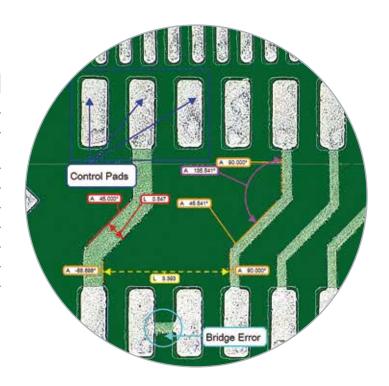
| Specification                              |  |
|--|--|
| Camera                                     | Full HD  |
| Surface illumination                       | 8-point ring light. Colour temperature 5,500K (adjustable with filter options)                                     |
| Sub-stage illumination                     | Optional   |
| Front panel control                        | On/Off, zoom in, zoom out, overview, surface illumination level, sub-stage illumination level, image capture, menu |
| Remote control                             | Optional   |
| Interfaces                                 | HDMI, USB3 (PC connection), USB2 (stand alone image capture), WiFi (optional)                                      |
| CAMERA SPECIFICATION                       |  |
| Camera zoom                                | 30:1   |
| Digital zoom                               | 12:1   |
| Camera resolution                          | 1920x1080  |
| Sensor                                     | 1/2.8" CMOS back-illuminated   |
| Frame rate                                 | 50fps & 60fps (switchable)   |
| Saved file type                            | PNG, JPEG+,JPEG,JPEG-  |
| FEATURES                                   |  |
| Inspection features                        | Save/import/export settings  |
| Reporting features                         | Image capture, time stamp  |
| Measurement features                       | Virtual caliper (x-axis separation, y-axis separation, diagonal - point-to-point), scaleable grid                  |
| General features                           | Image capture, image playback, noise reduction, light control  |
| Exposure control                           | Auto, aperture priority, manual  |
| Focus control                              | Auto, manual   |
| Keypad shortcuts                           | Presets, white balance, front panel lock, AE/ME switching, AF/MF switching   |
| Features retained in front panel lock mode | Image capture  |
| User programmable presets                  | 10 (Save, import/export)   |
| Image capture                              | USB memory stick or via PC connection  |
| Languages                                  | English, French, German, Spanish, Italian, Portuguese, Russian, Chinese, Japanese, Korean                          |
| Image mode                                 | Auto white balance, black and white, wide dynamic range, noise reduction, infrared mode, capture button action     |



## **Software**

There are options that deliver easy-to-use image capture and on-screen image measurement, so you can choose the option which best meets your needs and workflow.

|                       | DimensionOne | DimensionTwo | ViPlus   |
|-----------------------|--------------|--------------|----------|
| Image capture         | ✓            | ✓            | ✓        |
| Annotation            | ✓            | ✓            | ✓        |
| On screen measurement | ✓            | ✓            | <b>√</b> |
| Overlays              |              |              | <b>√</b> |
| Reporting             | ✓            | ✓            | <b>✓</b> |
| Advanced functions    |              |              | ✓        |
| Focus stacking        |              |              | ✓        |
| Edge detection        |              | <b>√</b>     | ✓        |
| Shape detection       |              |              | <b>√</b> |



# **Objective Lenses**

Our range of lenses gives you the freedom to customise your EVO Cam ICON to suit the demands of your application, be that for quality assurance, detailed inspections, or assembly and re-work tasks.

| Objective lens              | Magnification zoom range* | Working distance | Field of view at min.zoom | Field of view at max.zoom |
|-----------------------------|---------------------------|------------------|---------------------------|---------------------------|
| 0.45x                       | 2.3x - 68x                | 160 mm           | 241 mm x 134 mm           | 7.8 mm x 4.2 mm           |
| 0.62x                       | 3.1x - 93.7x              | 106 mm           | 173 mm x 96 mm            | 5.5 mm x 3.1 mm           |
| 1.0x                        | 5x - 151.2x               | 82 mm            | 88 mm x 57 mm             | 3.5 mm x 2 mm             |
| 1.5x                        | 7.6x - 226.8x             | 43 mm            | 45 mm x 36 mm             | 2.3 mm x 1.2 mm           |
| 2.0x                        | 10x - 302.4x              | 29 mm            | 37 mm x 27 mm             | 1.5 mm x 1.0 mm           |
| Wide-field objective lenses |                           |                  |                           |                           |
| 2 dioptre                   | 0.8x - 24x                | 500 mm           | 660 mm x 370 mm           | 21.5 mm x 12.0 mm         |
| 3 dioptre                   | 1.15x - 32.6x             | 330 mm           | 390 mm x 225 mm           | 14.7 mm x 8.4 mm          |
| 4 dioptre                   | 1.71x - 51.41x            | 245 mm           | 293 mm x 171 mm           | 10 mm x 5.5 mm            |
| 5 dioptre                   | 2.12x - 65.5x             | 197 mm           | 232 mm x 135 mm           | 8 mm x 4.5 mm             |
| Micro objective lenses      |                           |                  |                           |                           |
| 5x                          | 250x - 378x               | 21 mm            | 2.2 mm x 1.3 mm           | 1.4 mm x 0.8 mm           |
| 10x                         | 500x - 756x               | 21 mm            | 1.1 mm x 0.65 mm          | 0.7 mm x 0.4 mm           |
| *Using a 24 inch screen     |                           |                  |                           |                           |



# VISION ENGINEERING + OUR DIFFERENCE

Vision Engineering Ltd. has been designing and manufacturing high quality ergonomic microscopes, digital instruments, inspection, contact and non-contact measuring systems for over 60 years.

#### **Innovation**

With a philosophy of design innovation, Vision Engineering holds world patents for a number of optical / digital techniques, significantly improving viewing ergonomics and enabling customer quality and productivity improvements. In 2020, we were awarded a Queen's Award for Enterprise in the Innovation category, for our high tech ergonomic optical inspection microscope Lynx EVO.

#### Quality

Vision Engineering prides itself on quality products, electronics, mechanics and optics and is certified for the quality management system ISO 9001:2015. Quality is as important to us as it is to our customers. Our systems have proved themselves many times over and are chosen by the world's leading companies.

#### Global

Vision Engineering has manufacturing and design facilities in the UK and USA, plus sales and support offices throughout Europe, the Americas, the Far East, and Asia. We support our customers with close technical and service support anywhere in the world.

To see our focused quality, please contact your Vision Engineering branch, local authorised distributor, or visit our website: visioneng.com

Sales Partner

Disclaimer- Vision Engineering Ltd. has a policy of continuous development and reserves the right to change or update, without notice, the design, materials or specification of any products, the information contained within this brochure/datasheet and to discontinue production or distribution of any of the products described.

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