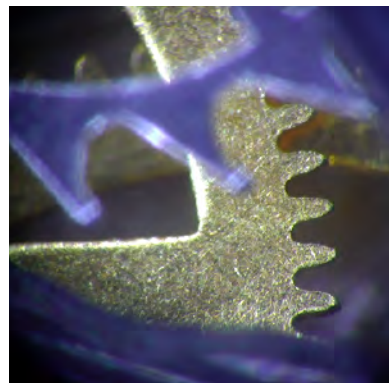
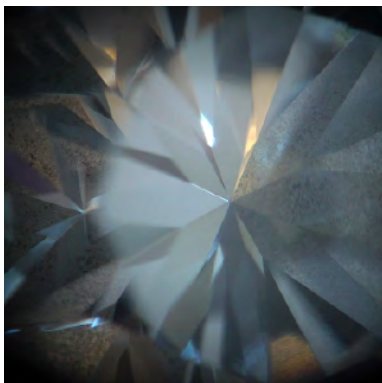
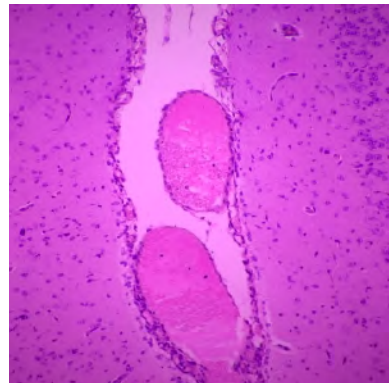
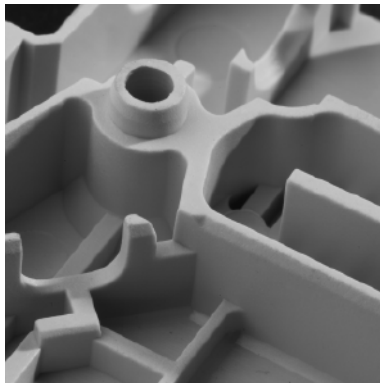


VISIONAid

Precision Imaging & Ergonomics



About VisionAid

VisionAid is a family owned and run business who have been providing quality digital magnification solutions for over 20 years.

We offer a range of exceptionally high quality products to improve productivity, posture and comfort in the workplace.

Our free, no-obligation, on-site product demonstrations help ensure the best solution for your specific requirements.

Our Solutions

► Digital microscopes

A range of 1080P, 60 frames per second, exceptional quality TAGARNO digital magnifiers, microscopes and inspection solutions. Manufactured using high quality materials and surface treatments for longevity. Combining superior optics with advanced features such as focus stacking; ideal for tasks including quality control, service, repair, rework and R&D. An excellent alternative to a traditional compound microscope.



► Ergonomics

Professional ergonomic products including posture seating, height adjustable workstations and accessories.



Digital Microscopy

Digital microscopes offer significant advantages over traditional compound microscopes and eyepiece-less stereo microscopes

Unlike traditional optical systems, our digital devices do not depend on eye pieces for focusing; relieving your eyes, neck and back from unnecessary strain and fatigue.

This results in a more comfortable working posture that helps to improve efficiency, reduce staff injuries and sickness absence.

With high definition output to any monitor, our systems free you from the small and cramped viewing areas associated with eyepiece-less stereo microscopes. Ideal for viewing simultaneously with colleagues.

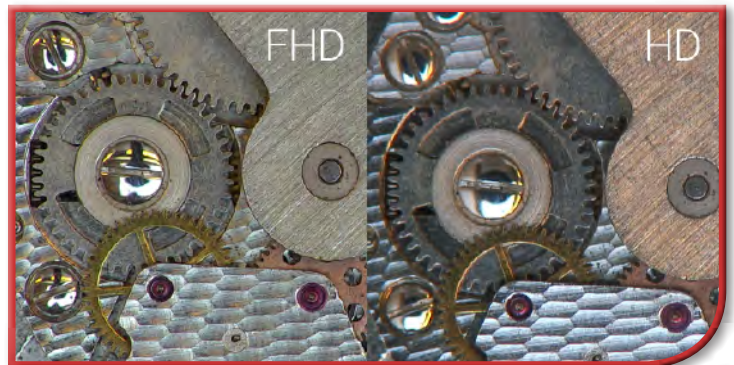
TAGARNO
seeing solutions

Scandinavian Quality & Innovation

► See the difference

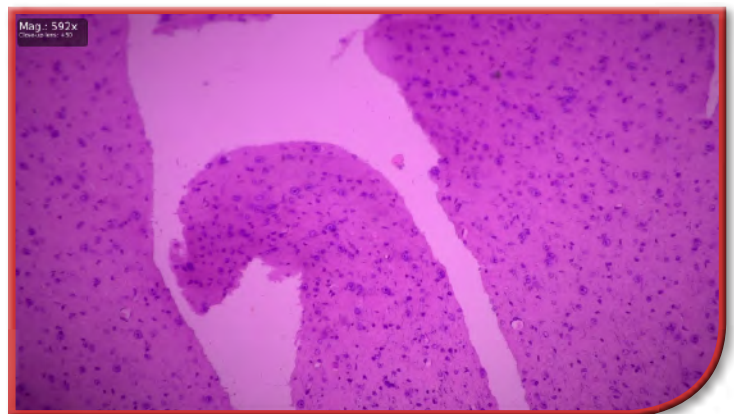
All our solutions feature superior Full HD 1080P resolution cameras with more than twice the number of pixels of standard HD units.

Selectable frame rates from 25 to 60 for optimal image quality in all lighting conditions.



► Pure optical magnification

With crisp, clear, optical magnification up to an incredible 645.2x (24" monitor), there is no loss of quality even at maximum zoom levels.



► Content sharing & documentation

Quickly and easily share critical information between co-workers and departments with computer connectable and standalone systems.

Ideal for training, responsive quality control, comparison and documentation.



FHD ZIP

Compact, lightweight and foldable universal digital microscope with exceptional image quality.



Transportable and compact, FHD ZIP is a space saving digital microscope. It is extremely versatile and can easily be moved to other locations and stowed away when not in use.

▶ FHD ZIP key features

- ▶ Pure optical magnification range: 1.7x to 52.4x (24" monitor with included +4 lens)
- ▶ Our most cost-effective professional imaging solution
- ▶ Compact and lightweight. Folds flat for easy transportation and storage
- ▶ Tilttable camera head
- ▶ Supplied with XKEY control pad
- ▶ Integrated LED lighting

▶ Standard features

- ▶ Superior FHD 1080P image quality with smooth, continuous 30x optical zoom
- ▶ Auto and manual focus and exposure modes
- ▶ Individually adjustable aperture, gain and exposure time for optimal image clarity and brightness
- ▶ 3 time-saving configurable presets
- ▶ USB 3.0 computer connectivity for live viewing, recording video and saving images
- ▶ Ideal for simultaneous viewing on two screens - great for comparison work
- ▶ Manufactured using high quality materials & surface treatments for longevity & no maintenance
- ▶ ESD connection point



- ▶ Ergonomic in-line configuration



- ▶ Tilttable camera head for viewing objects at an angle



- ▶ Integrated LED lighting

- ▶ Compact, tactile XKEY control pad



▶ Optional equipment

Controls (please see page 14 for details)

- ▶ Footswitch for hands-free adjustment of zoom and focus

Lighting (please see page 15 for details)

- ▶ Basic analog ring light kit (including diffuser filter) | Ultraviolet ring light | Infrared ring light
- ▶ Polariser set for ring light kit

Accessories (please see page 15 for details)

- ▶ Tables: Small separate X/Y | Circular tilting | Height adjustable
- ▶ Cleaning kit

FHD ZAP

**Flexible solution for viewing larger items and areas.
Perfect for production lines, positioning over conveyor belts or larger objects.**



Our most flexible space saving digital microscope which can be attached to a variety of fully adjustable arms to meet specific requirements. A laser pointer is included to enhance precision and accuracy.

▶ **FHD ZAP key features**

- ▶ Pure optical magnification range: 1.3x to 65.5x (24" monitor, lens dependent)
- ▶ Numerous mounting options via integrated VESA bracket
- ▶ Includes fully adjustable gas assist monitor arm with 65 cm reach (85cm with extension arm)
- ▶ Fast and versatile camera positioning: forward/backward, left/right, up/down and tilt
- ▶ Precision laser pointer for visible target indicator and rapid, accurate zooming on subject

▶ **Standard features**

- ▶ Superior FHD 1080P image quality with smooth, continuous 30x optical zoom
- ▶ Auto and manual focus and exposure modes
- ▶ Individually adjustable aperture, gain and exposure time for optimal image clarity and brightness
- ▶ 3 time-saving configurable presets
- ▶ USB 3.0 computer connectivity for live viewing, recording video and saving images
- ▶ Ideal for simultaneous viewing on two screens - great for comparison work
- ▶ ESD connection point



▶ Integrated controls in camera head



▶ Rotatable and tiltable camera



▶ Optional equipment

Controls (please see page 14 for details)

- ▶ XKEY
- ▶ Footswitch for hands-free adjustment of zoom and focus

Lenses (magnification when using a 24" monitor. Please see page 15 for details)

- ▶ +3: Magnification range 1.3x to 40.1x
- ▶ +4: Magnification range 1.7x to 52.4x (included)
- ▶ +5: Magnification range 2.1x to 65.8x

Lighting (please see page 15 for details)

- ▶ Basic analog ring light kit (including diffuser filter) | Ultraviolet ring light | Infrared ring light
- ▶ Polariser set for ring light kit

Accessories (please see page 15 for details)

- ▶ Tables: Small separate X/Y | Circular tilting | Height adjustable
- ▶ Angle bracket
- ▶ Cleaning kit

FHD TREND

Fully customisable, standalone digital microscope with integrated computer for advanced features. With its extremely wide magnification range, this powerful and versatile system can be tailored to your exact requirements.



Also available in white

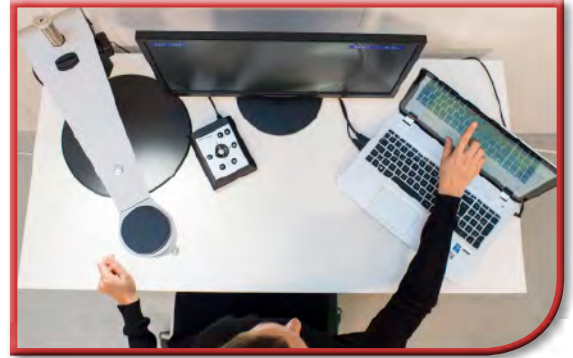
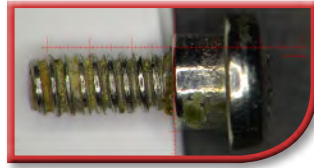
TAGARNO
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▶ FHD TREND key features

- ▶ Pure optical magnification range: 1.3x to 328.9x (24" monitor, lens dependent)
- ▶ Integrated computer module for advanced features
- ▶ Can be used with XKEY Keypad or the XPLUS FHD Control Box (depending on features required)
- ▶ Integrated LED lighting
- ▶ High speed focus stacking * Requires XPLUS FHD Control Box
- ▶ Tilttable camera head
- ▶ 90 degree rotating camera
- ▶ Camera head with smooth rotation for easy targeting of objects
- ▶ Rapid and fine height adjustment
- ▶ Fully upgradeable software (via USB memory stick)
- ▶ Standard network connection (RJ45) for future features

▶ FHD TREND standard features

- ▶ Superior FHD 1080P image quality with smooth, continuous 30x optical zoom
- ▶ Auto and manual focus and exposure modes
- ▶ Individually adjustable aperture, gain and exposure time for optimal image clarity and brightness
- ▶ USB 3.0 computer connectivity for live viewing, recording video and saving images
- ▶ Ideal for simultaneous viewing on two screens - great for comparison work
- ▶ Automatic detection of monitor size
- ▶ Includes 16GB USB memory stick
- ▶ ESD connection point
- ▶ Dust cover included



▶ Optional equipment

Controls (please see page 14 for details)

- ▶ XKEY Keypad - for standard features
 - ▶ Auto and manual focus and exposure modes
 - ▶ Individually adjustable aperture, gain and exposure time for optimal image clarity & brightness
- ▶ XPLUS FHD Control Box - for advanced features

All the features of the XKEY Keypad, with the addition of:

 - ▶ High speed focus stacking from 5 to 50 steps
 - ▶ Automatic image capture at user selectable intervals
 - ▶ Precision laser pointer for visible target indicator and rapid, accurate zooming on subject
 - ▶ Save images directly to USB memory stick with and without On Screen Display data
 - ▶ Fully configurable on-screen horizontal and vertical rulers
 - ▶ 4 time-saving configurable presets
- ▶ Footswitch for hands-free adjustment of zoom and focus

TAGARNO Measurement Application (TMA) * Requires XPLUS FHD Control Box

- ▶ Runs directly on the FHD TREND without the need of a computer
- ▶ Intuitive and easy-to-use - works with USB and wireless keyboards and mice
- ▶ Precise point-to-point, circle, angle and area measurements on screen
- ▶ Customisable text annotation
- ▶ Full calibration process and lens distortion removal, ensures unrivalled measurement accuracy
- ▶ Can be used on live or captured image
- ▶ Save and export images with precise measurement information in multiple formats

Lenses (magnification when using a 24" monitor. Please see page 15 for details)

- ▶ +3: Magnification range 1.3x to 40.1x
- ▶ +4: Magnification range 1.7x to 52.4x (included)
- ▶ +5: Magnification range 2.1x to 65.8x
- ▶ +10: Magnification range 4.3x to 128.0x
- ▶ +25: Magnification range 10.7x to 328.9x

Lighting (please see page 15 for details)

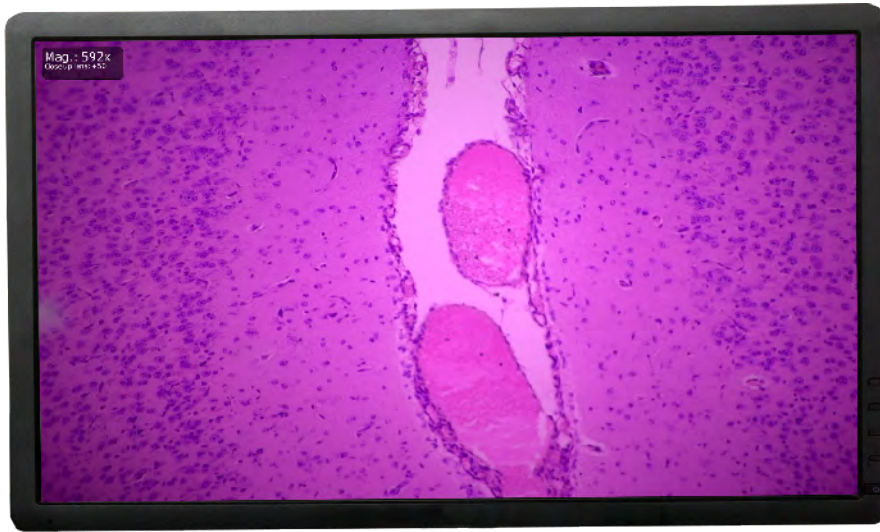
- ▶ Digital ring light kit (inc. Fresnel lens) | Ultraviolet ring light | Infrared ring light | Coaxial light kit
- ▶ Polariser set for ring light kit

Accessories (please see page 15 for details)

- ▶ Tables: Small separate X/Y | Large built-in X/Y | Circular tilting | Height adjustable
- ▶ Cleaning kit

FHD PRESTIGE

Our highest magnification standalone digital microscope with integrated computer for advanced features. This extremely versatile and stable system is ideal for magnification requirements over 300x.



Also available in white

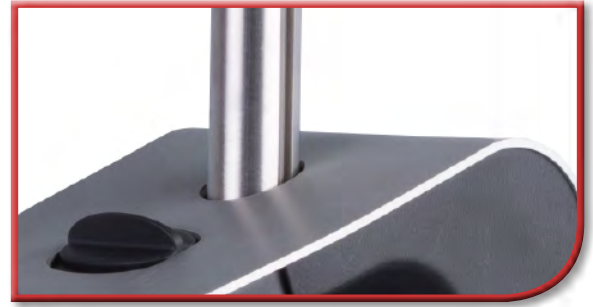
TAGARNO
seeing solutions

▶ FHD PRESTIGE key features

- ▶ Pure optical magnification range: 1.7x to 657.8x (24" monitor, lens dependent)
- ▶ Fixed camera head for maximum stability
- ▶ Optional base with integrated upright for demanding lighting conditions
- ▶ Integrated computer module for advanced features
- ▶ Can be used with XKEY Keypad or the XPLUS FHD Control Box (depending on features required)
- ▶ Integrated LED lighting
- ▶ High speed focus stacking from 2 to 25 images * Requires XPLUS FHD Control Box
- ▶ Rapid and fine height adjustment
- ▶ Fully upgradeable software (via USB memory stick)
- ▶ Standard network connection (RJ45) for future features

▶ FHD PRESTIGE standard features

- ▶ Superior FHD 1080P image quality with smooth, continuous 30x optical zoom
- ▶ Auto and manual focus and exposure modes
- ▶ Individually adjustable aperture, gain and exposure time for optimal image clarity and brightness
- ▶ USB 3.0 computer connectivity for live viewing, recording video and saving images
- ▶ Ideal for simultaneous viewing on two screens - great for comparison work
- ▶ Automatic detection of monitor size
- ▶ Includes 16GB USB memory stick
- ▶ ESD connection point
- ▶ Dust cover included



► Optional equipment

Controls (please see page 14 for details)

- XKEY Keypad - for standard features
 - Auto and manual focus and exposure modes
 - Individually adjustable aperture, gain and exposure time for optimal image clarity & brightness
- XPLUS FHD Control Box - for advanced features

All the features of the XKEY Keypad, with the addition of:

 - High speed focus stacking from 5 to 50 steps
 - Automatic image capture at user selectable intervals
 - Save images directly to USB memory stick with and without On Screen Display data
 - Fully configurable on-screen horizontal and vertical rulers
 - 4 time-saving configurable presets
- Footswitch for hands-free adjustment of zoom and focus

TAGARNO Measurement Application (TMA) * Requires XPLUS FHD Control Box

- Runs directly on the FHD TREND without the need of a computer
- Intuitive and easy-to-use - works with USB and wireless keyboards and mice
- Precise point-to-point, circle, angle and area measurements on screen
- Customisable text annotation
- Full calibration process and lens distortion removal, ensures unrivalled measurement accuracy
- Can be used on live or captured image
- Save and export images with precise measurement information in multiple formats

Lenses (magnification when using a 24" monitor. Please see page 15 for details)

- +4: Magnification range 1.7x to 52.4x (included)
- +5: Magnification range 2.1x to 65.8x
- +10: Magnification range 4.3x to 128.0x
- +25: Magnification range 10.7x to 328.9x
- +50: Magnification range 21.3x to 657.8x

Lighting (please see page 15 for details)

- Digital ring light kit (inc. Fresnel lens) | Ultraviolet ring light | Infrared ring light | Coaxial light kit
- Base with integrated uplight
- Polariser set for ring light kit

Accessories (please see page 15 for details)

- Tables: Small separate X/Y | Large built-in X/Y | Circular tilting | Height adjustable
- Cleaning kit

PRODUCT COMPARISON



Product Features	FHD ZIP				FHD ZAP		
▶ Camera							
FHD 1080p, 1920x1080	✓				✓		
30x optical zoom	✓				✓		
Auto & manual focus	✓				✓		
Aperture, gain & exposure adjust.	✓				✓		
Picture Flip	✓				✓		
Integrated LED lighting	✓				✗		
Laser pointer	✗				✓		
Height adjustable	✗				✓		
▶ Controls							
Control included	XKEY Keypad				Integrated into camera head		
Control options	Footswitch				XKEY Keypad, Footswitch		
Presets	3				3		
▶ Advanced Features							
Auto monitor size detection	✗				✗		
Image capture to PC via USB 3.0	✓ with 3rd party software from your PC				✓ with 3rd party software from y		
Image capture directly to USB stick	✗				✗		
Interval image capture	✗				✗		
Integrated computer	✗				✗		
On screen rulers	✗				✗		
High speed focus stacking	✗				✗		
Measurement application option	✗				✗		
Integrated PC switch-screen	✗				✗		
▶ Specifications							
Cables included	Mini-HDMI to HDMI, Micro USB 3.0 to USB 3.0 & ESD				Mini-HDMI to HDMI & Micro-USB 3.0		
Working height Working depth	250 mm 300 mm				Min: 95 mm Max: 360 mm Adj		
Weight	2.0 kg / 4.4 lbs				1.5 kg / 3.3 lbs		
Dimensions mm / inches (H/W/D)	350 / 155 / 386 13.78" / 6.10" / 15.20"				H:121 / R:100 4.76"/3.94"		
Table options	Small X/Y				Small X/Y		
Connections	Mini-HDMI & Micro-USB 3.0				HDMI, USB 3.0 & ESD		
Power consumption (Standby / On)	0.8 W / 15 W				0.5 W / 7.4 W		
Storage	-5 to +60°C 20 to 90% RH				-5 to +60°C 20 to 90% RH		
Operation	+5 to +40°C 20 to 80% RH				+5 to +40°C 20 to 80% RH		
▶ Lens Options	Magnification Range	Max. Working Distance	FOV Min. Zoom	FOV Max. Zoom	Magnification Range	Max. Working Distance	FOV Min. Zoom
+3	-	-	-	-	1.3 to 40.1x	333 mm	409mm
+4 (included as standard)	1.7 to 52.4x	250mm	290mm	11mm	1.7 to 52.4x	250 mm	290mm
+5	-	-	-	-	2.2 to 65.8x	200 mm	245mm
+10	-	-	-	-	-	-	-
+25	-	-	-	-	-	-	-
+50	-	-	-	-	-	-	-
▶ Lighting Options							
Basic analog ring light kit	✓				✓		
Digital ring light kit	✓				✓		
Polariser set for ring light kit	✓				✓		
Infrared ring light	✓				✓		
Ultraviolet ring light	✓				✓		
Coaxial light kit (up to+10 lens)	✓				✓		
Base with integrated uplight option	✗				✗		

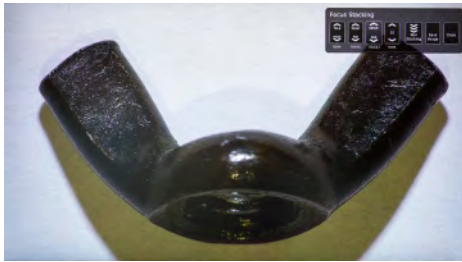


	FHD TREND				FHD PRESTIGE				
			✓				✓		
			✓				✓		
			✓				✓		
			✓				✓		
			✓				✓		
			✓				✓		
	✓ +3, +4, +5 lenses only & XPLUS Control Box required						✗		
			✓				✓		
			✗				✗		
	XKEY Keypad, XPLUS FHD Control Box, Footswitch				XKEY Keypad, XPLUS FHD Control Box, Footswitch				
	4 (XPlus FHD Control Box required)				4 (XPlus FHD Control Box required)				
			✓				✓		
your PC	✓ with 3rd party software from your PC				✓ with 3rd party software from your PC				
	✓ XPlus FHD Control Box required				✓ XPlus FHD Control Box required				
	✓ XPlus FHD Control Box required				✓ XPlus FHD Control Box required				
	✓ XPlus FHD Control Box required				✓ XPlus FHD Control Box required				
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	✓ XPlus FHD Control Box required				✓ XPlus FHD Control Box required				
	✓ XPlus FHD Control Box required				✓ XPlus FHD Control Box required				
to USB 3.0	HDMI-DVI & HDMI-HDMI, USB 3.0				HDMI-DVI & HDMI-HDMI, USB 3.0				
stable	Min: 100 mm Max 310 mm 385 mm				Min: 27 mm Max 225 mm 150 mm				
	6.8 kg / 14.9 lbs				11.0 kg / 24.3 lbs, with base-light 14.0 kg / 30.9 lbs				
	460 / 325 / 530 18.11" / 12.80" / 20.87"				464 / 320 / 325 18.27" / 12.60" / 12.80"				
	Small X/Y, Integrated large X/Y				Small X/Y				
	HDMI output, HDMI input, 1 x USB 3.0 output, 2 x USB 2.0 input, Ethernet and Sub-D for Control Box				HDMI output, HDMI input, USB 3.0 output, USB 2.0 input, Ethernet and Sub-D for Control Box				
	0.7 W / 16.8 W				0.7 W / 27 W				
H	-5 to +60°C 20 to 90% RH				-5 to +60°C 20 to 90% RH				
H	+5 to +40°C 20 to 80% RH				+5 to +40°C 20 to 80% RH				
	FOV Max. Zoom	Magnification Range	Max. Working Distance	FOV Min. Zoom	FOV Max. Zoom	Magnification Range	Max. Working Distance	FOV Min. Zoom	FOV Max. Zoom
	13.4 mm	1.3 to 40.1x	333 mm	409 mm	13.4 mm	-	-	-	-
	11 mm	1.7 to 52.4x	250 mm	290 mm	11 mm	1.7 to 52.4x	250 mm	290 mm	11 mm
	8.0 mm	2.2 to 65.8x	200 mm	245 mm	8.0 mm	2.2 to 65.8x	200 mm	245 mm	8.0 mm
	-	4.3 to 128.0x	100 mm	125 mm	4.1 mm	4.3 to 128.0x	125 mm	125 mm	4.1 mm
	-	10.7 to 328.9x	34 mm	49.8 mm	1.6 mm	10.7 to 328.9x	34 mm	49.8 mm	1.6 mm
	-	-	-	-	-	21.3 to 657.8x	33.5 mm	25 mm	0.8 mm
			✗				✗		
			✓				✓		
			✓				✓		
			✓				✓		
			✓				✓		
			✓				✓		
			✗				✓		

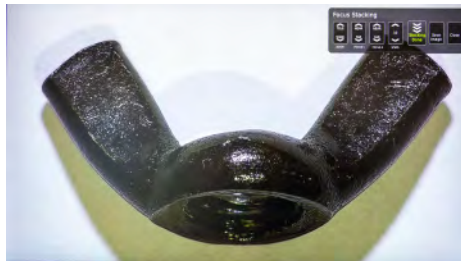
OPTIONAL EQUIPMENT

Controls

- ▶ XKEY Keypad - for standard features
 - ▶ Auto and manual focus and exposure modes
 - ▶ Individually adjustable aperture, gain & exposure time for optimal image clarity & brightness
- ▶ XPLUS FHD Control Box - for advanced features
All the features of the XKEY Keypad, with the addition of:
 - ▶ High speed focus stacking from 5 to 50 steps:



Without focus stacking



With focus stacking



- ▶ Automatic image capture at user selectable intervals
- ▶ Save images directly to USB memory stick with and without On Screen Display data
- ▶ Fully configurable on-screen horizontal and vertical rulers
- ▶ 4 time-saving configurable presets
- ▶ Footswitch
 - ▶ Provides completely hands-free adjustment of zoom & focus.



Measurement

- ▶ TAGARNO Measurement Application (TMA) * Requires XPLUS FHD Control Box

The TMA (for FHD PRESTIGE & FHD TREND) enables you to perform precise measurements directly from your microscope in live or captured image mode without the need for an external computer.

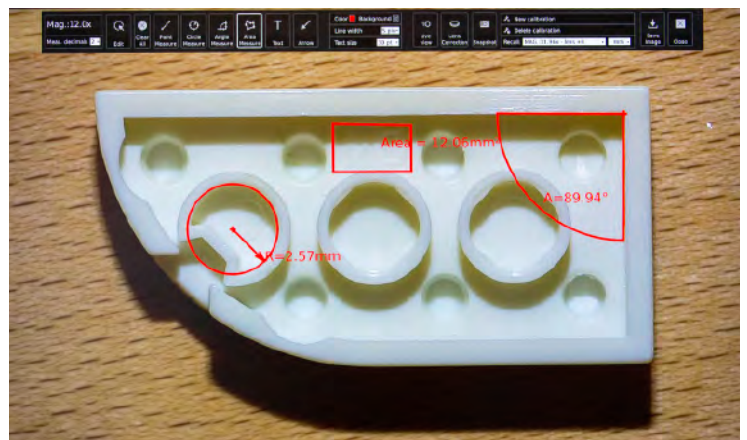
With the software activated, simply connect a standard computer keyboard & mouse (wired or wireless) for powerful, familiar, desktop publishing-like controls.

TMA offers easy point-to-point, circle, angle and area measurements.

You can also perform advanced calibrations, lens correction, text and arrow annotations.

The software is fully upgradable via USB memory stick so new features can easily be added.

Enables quick and easy creation of documentation which in turn can aid quality control processes, information sharing, collaboration with co-workers etc.



Lenses

- ▶ A range of lenses from +3 to +50 (product dependent) to provide a complete range of magnification levels. Please see "Lens Options" within the Product Comparison table on pages 12 and 13 for full details of available lenses and magnification ranges.



Lighting

- ▶ Depending on the object being magnified, lighting can be critical in achieving a clear, bright image. A full range of lighting kits are available which cover many different scenarios. Please contact us for full details.

- ▶ Basic ring light kit
- ▶ Digital ring light kit (including Fresnel lens)
- ▶ Ultraviolet ring light
- ▶ Infrared ring light
- ▶ Base with integrated uplight (FHD TREND only)
- ▶ Coaxial ring light kit
- ▶ Polariser set for ring light kit



Tables

- ▶ Positioning objects under digital microscopes at high levels of magnification is not an easy task. Our full range of tables facilitate precise alignment for faster and easier viewing:

- ▶ Small separate X/Y table
- ▶ Large built-in X/Y table (FHD TREND only)
- ▶ Circular tilting table for angling objects
- ▶ Height adjustable table



Flex Arms

- ▶ The FHD ZAP attaches to an optional (but recommended) high quality gas assist monitor arm that provides fast and accurate camera head positioning. Dual arm versions are also available for combined ergonomic monitor (up to 30") and camera positioning.



VisionAid offer a wide range of professional ergonomic products and services designed to facilitate better health and wellbeing in the workplace.

Seating

- ▶ Ergonomic chairs
 - ▶ We offer a range of high quality ergonomic chairs from leading manufacturers, including wipe clean and ESD versions. Ergonomic chairs provide comfort and support which in turn can both prevent and manage disabilities, muscular injury and general discomfort.
- ▶ Active dynamic seating
 - ▶ Promotes increased movement in three dimensions (3D Ergonomics) in order to facilitate better health and wellbeing.



- ▶ **swopper and swopper High**
Akin to sitting on an exercise ball but it does not roll away or burst! Available in both sitting and standing versions.



- ▶ **muvmán**
Promotes active sit / stand

Document holders and writing slopes

- ▶ Document holders and writing slopes
 - ▶ Encourages a centralised working posture.
 - ▶ Greatly reduces the need to constantly twist and stretch when accessing paperwork which decreases the pressures applied to the lumbar vertebrae and the static muscle load in the shoulder region.



- ▶ **Clear Slope Pro**
Adjustable document holder

Desks / Workstations

- ▶ Height adjustable desks and workstations
 - ▶ Motorised height adjustable desks allow the user to quickly and easily alternate between sitting and standing while working. Ideal for varying your posture throughout the day.
 - ▶ Strong construction using aluminium and steel frames ensure stability when the desk is at its maximum height.
 - ▶ Available in the following sizes:

Rectangular Desks:

- 1200 x 800
- 1400 x 800
- 1600 x 800
- 1800 x 800

Radial Desks:

- 1600 x 1200
- 1800 x 1200



Riser stands

- ▶ Laptop and tablet riser stands
 - ▶ Compact and lightweight riser stands for use with laptop or tablet computers. Riser stands allow the computer screen to be positioned at a more comfortable viewing height. Looking down at a screen moves the head beyond its centre of gravity which can cause increased tension in the lower back and neck muscles.



- ▶ **Arrow**
Ultra lightweight portable tablet stand

- ▶ **U Top Pro**
Ultra lightweight portable laptop stand



NOTES

VISIONAid



If you require more information, or would like to book a free, no-obligation demonstration, please contact us:

t: 01775 711 977
e: info@visionaid.co
w: www.visionaid.co

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