



TAGARNO FHD TREND

TAGARNO is introducing a new agile era within digital microscopy.

Presenting an avant-garde new line of intelligent FULL HD digital microscopes, TAGARNO FHD TREND provides you with the ability to effortlessly adapt into the individual all-in-one tool you need in the blink of an eye.

This is the smart investment in your quality, implementing one easily updated and customized digital microscope for manual visual inspection. This enables you to continuously optimize your quality control processes - now and in the future.

TAGARNO
seeing solutions

www.tagarno.com

TAGARNO FHD TREND

This is a brand new way of thinking digital microscopy. A way that allows you to continuously update your digital microscopes with new possibilities as they come along. This enables you to customize the system to always serve as your favorite magnification tool for quality control and analysis by having the ability to add new features and uses to the TAGARNO FHD digital microscope you have invested in. Being able to add a variety of accessories such as lighting, lenses and tables, enables you to further customize the digital microscope to fit your exact needs.

Optical zoom, ultra-high frame rates and 1080p image quality provides you with crystal clear magnified images to use as indisputable documentation material and rapidly share with colleagues and collaborators. Capture and share images directly to the microscope or computer. Quick and easy perform onscreen measurements on live images to create valuable and credible documentation.



IMPROVE YOUR QUALITY CONTROL BY CONTINUOUSLY ADDING NEW TECHNOLOGY TO YOUR MICROSCOPE

With the new agile system from TAGARNO, you quickly and easily gain access to the latest technology without having to invest in new microscopes all the time - you only have to invest in your preferred selection of add on features to update your current TAGARNO FHD microscope and you are all set! That way, you always have a digital microscope with the most current and relevant features available and you are thereby always able to alter the system to assist you in your quality work.



TAGARNO MEASUREMENT APPLICATION

This application offers features such as point-to-point, circle, angle and area measurements as well as performing advanced calibrations, lens correction and text and arrow annotations. You are also able to toggle between live view and still image mode as well as capturing images and saving your work to USB memory stick with or without applied graphics.

TAGARNO VERIFICATION LINES APPLICATION

This application provides you with an opportunity to quality check objects based on accurate calibrated measures by placing vertical and/or horizontal lines as a layer on top of your object - directly from your digital microscope. State the distance between the lines and mark the tolerance. Insert a grid with a user defined number of lines and state the wanted distance between the lines.

OBTAIN EXCELLENT IMAGE DOCUMENTATION IN MAGNIFICENT QUALITY

With 1080p image quality, 60 frames per second and 30x optical zoom, a digital microscope from TAGARNO provides you with an extremely sharp image to view and document the quality of your magnified objects. The camera provides you with an undistorted image without interference or delay - precisely as the magnified object in real life. Built-in autofocus and the ultrasensitive light sensor guarantee ultra-sharp images with enhanced depth of field in any magnification level.



EASY DOCUMENTATION AND VALIDATION WITH A STANDALONE DIGITAL MICROSCOPE FROM TAGARNO

CREATE HIGH QUALITY IMAGE DOCUMENTATION OF ITEMS WITH VARYING HEIGHT

Create high quality documentation images easily with the Focus Stacking feature. Create one ultra-sharp image from top to bottom of an object by automatically stacking images at different focus heights on top of each other. No blurred or out of focus areas of the image.

SAVE IMAGES DIRECTLY TO A MEMORY STICK FOR EASY DOCUMENTATION WORK

With the integrated USB 2.0 slot you can store your images directly on any USB Memory Stick and transfer the images to your computer later, making your documentation work quick and easily sharable around the company supply chain.

EFFORTLESSLY SAVE AND SHARE VERIFICATION IMAGE AND VIDEO DIRECTLY FROM YOUR COMPUTER

Integrated USB 3.0 enables you to show and capture uncompressed video on a computer for further editing or distribution to colleagues and business partners with 3rd party software.

CREATE VALIDATION IMAGES WITH AN IMPROVED DEPTH OF FIELD FROM OPTICAL ZOOM

With FULL HD 30x optical zoom the depth of field is significantly improved and the user has an improved overview at minimum zoom.

MONITOR WITHOUT USING A COMPUTER WITH A TAGARNO STANDALONE DIGITAL MICROSCOPE

Turn the vertical, horizontal or vertical/horizontal OSD ruler on/off to get a ruler displayed in metrics or imperial units on top of your live image on screen, according to preferred measuring units. It is also possible to save an image with graphics from the ruler function. Set the ruler color to your preferred color choice, to separate it from your displayed object.

GENERIC ADVANTAGES OF A TAGARNO MICROSCOPE

USE A DIGITAL MICROSCOPE FOR YOUR QUALITY CONTROL PROCESSES

TAGARNO digital inspection microscopes are user-friendly all-in-one solutions, which makes it easy to use the TAGARNO microscopes with little or no training at all, making ease of use one of your most important benefits - just plug and play.

Ease of use, documentation possibilities and promoting collaboration, ergonomic working postures and measurement software capabilities are some of the defining benefits of the digital microscope systems from TAGARNO which is being used for wide selection of processes in a variety of industries globally.

ERGONOMICS

A correct approach to ergonomics and a good working environment provide more energy, better results, higher efficiency and less sickness absence. As a TAGARNO use a digital signal combined with a monitor, and therefore does not depend on an ocular for focusing, your eyes, neck and back are relieved of unnecessary strain, paving way for more adequate and efficient and working processes for optimization of your results.

USER-FRIENDLINESS

TAGARNO digital microscopes saves you time since they are user-friendly all-in-one solutions, which make it easy to use the TAGARNO microscopes with little or no training at all, making ease of use one of your most important benefits - just "plug and play". At the same time, all microscopes from TAGARNO are designed, developed and manufactured in Denmark. The digital microscopes are made only from high quality materials and surface treatments for a long lasting product which requires no maintenance.

MULTIVIEWER

The option of dialogue and cooperation brings new and more dynamic ways of working and easier quality control management.. A digital microscope provides you with unique opportunities to deeply improve collaboration and enriched communications between coworkers, customers and business partners. By creating excellent conditions for internal or external training and sparring, TAGARNO digital microscopes gives you an incomparable chance to easily detect and describe problems to multiple viewers simultaneously in person. This advantage is beneficial for the training of new operators, sparring between operators and supervision sessions.

DOCUMENTATION

Via a single snapshot you are able to create easily shareable high-quality documentation as high definition images, produced by high-resolution cameras and displayed on high-definition monitors and computers. With stand alone or computer conneted digital microscopes, TAGARNO paves the way for considerably improved communication between coworkers, within departments, companies and supply chains, by enabling you to document, share and explain your work and results to multiple viewers at the same time.

TECHNICAL SPECIFICATIONS

Dimensions	H: 460mm/18.1"	
	D: 530mm/20.8"	
	W: 275mm/10.8"	
Weight	6.8 kg/15 lbs	
Camera resolution	FHD 1080p	
	1920x1080@25/30/50/60Hz	
Camera zoom	30x optical	
Work height	Min: 100mm/3.9"	
	Max: 310mm/12.2"	
Work depth	385mm/15.2"	
Auto Monitor Detect	Yes	
Plug connection	2 x USB 2.0 Type A Socket	USB 3.0 output Type B Socket
	Control box D-SUB 9-Pin Female	ESD Snap Socket, 10mm
	Monitor output HDMI Standard Type A	Power supply DC Jack
	Ethernet RJ-45	
Power requirements	Line voltage	100 - 240V ~ ± 10%
	Line frequency	50/60Hz
	AC current consumption (typ.)	200mA/100V~ 90mA/240V~
	DC current consumption (typ.)	1.7A/12V ---
Environmental conditions	Temperature	Storage -5 to 60°C / 23 to 140°F Operation 5 to 40°C / 41 to 104°F
	Humidity range	Storage 20 to 90% RH non-condensing Operation 30 to 80% RH non-condensing
	Altitude	0 to 2000m / 0 to 6500ft above sea level
	Pollution degree	2



TECHNICAL SPECIFICATIONS

FEATURES

Use manual or auto focus	Set start magnification	Activate auto capture mode	Access system information
Use manual or auto iris, gain and exposure time	Lock magnification	Set auto interval	Access storage information
	Activate Picture flip	Activate monitor auto detect	Perform a system update
Take a snapshot	Activate IR filter	Set monitor width	Restore factory default settings
Save and access presets	Activate white balance calibration at LED light change	Choose system units	Turn microscope off
Turn light on/off		Select numeric format	Focus stacking
Activate laser pointer	Choose video format	Choose system language	Measurement application (Optional)
Perform white balance calibration	Choose image format	Choose keyboard layout	
Set optimal working distance	Type image prefix	Select foot switch configuration	Activate Ruler
Close up lens	Choose ruler color	Set time	Watermark (Optional)
Wide dynamic range	Activate file share mode	Set date	Verification lines (Optional)
ESD	High contrast	Image preview	Image comparison (Optional)

LENSES

	Dimensions	Lens to object distance	Magnification on 22" screen
+3	58 mm/2.3"	333 mm/13.1"	1.2x - 35.4x
+4 (included)	58 mm/2.3"	250 mm/9.8"	1.6x - 47.3x
+5	58 mm/2.3"	200 mm/7.9"	1.9x - 59.3x
+10	58 mm/2.3"	100mm/3.9"	3.8x - 115.5x
+25	58 mm/2.3"	34mm/1.34"	9.6x - 297.1x

RECOMMENDED MONITOR FORMAT

Panel format	16:9 (Widescreen)
How to link	DVI or HDMI input
Response time	2 ms
Signal format	FHD 1920x1080

ACCESSORIES

Lens, +3, +4, +5, +10, +25	Ultra Violet ring light	Circular tilting table	Dust cover
Magnetic lens ring	Infrared ring light	Height Adjustment Table	Coaxial light
XPLUS FHD Control box	FHD monitor 22" and 24	XY table	Glass table
XKEY Control box	Mounting arm for monitor	Backlight kit	
Foot switch	Table mount monitor arm	Flexarm	
Ring light kit	Wall mount monitor arm	Cleaning kit	