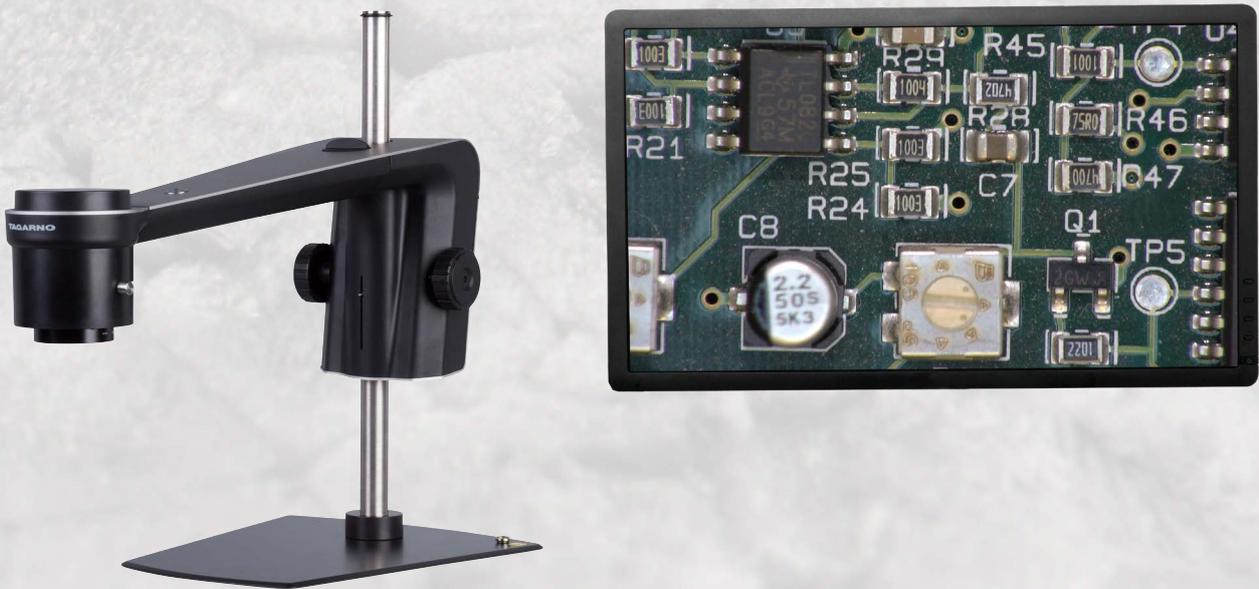


# TRUTH IS IN THE DETAILS

DRAMATICALLY IMPROVE YOUR PROCESSES WITH A TAGARNO



Ideal for inspection of bare solder boards, connectors or assembled boards during SMT-processes. Detect cracks in soldering, spot solder on components, dewetting or bridging in small components. Facilitate your hand soldering of very fine pitch electronic components.

- User-friendly all-in-one solutions, which make it easy to use with little or no training at all
- Great 1080p image quality and 60fps provide ultra-sharp details and an undelayed screen image
- Microscopes made only from high quality materials and surface treatments for a long lasting product
- Obtaining ergonomic correct working postures provides less sickness absence and higher efficiency
- Enriched communications and dynamic ways of cooperation between coworkers, customers and partners
- Easily detect and describe problems to multiple viewers simultaneously in person
- Create easily shareable high-quality documentation via a single snapshot
- Excellent conditions for internal or external training and sparring

### TAGARNO FHD ZIP



ACCESSORIES

#### FEATURES AND BENEFITS

Cost-efficient and user-friendly tool  
Effortless image and video capture to PC via USB  
Great 1080p image quality and ultra fast framerate 60fps  
Boost colors for great reproduction of objects  
Manually adjust light settings for perfect lighting  
Save presets for quick recall of specific settings

FHD monitors  
Lens +4  
Foot switch  
Light kits: Coaxial, ultra violet, ring and back light  
Tables: XY, Height adjustable and Circular tilting table

#### FEATURES AND BENEFITS

High magnification levels (660X) and 30x optical zoom  
Great stability for an undistorted image on screen  
On screen ruler for quick measurements  
Effortless image and video capture to PC and USB  
Great 1080p image quality provides ultra-sharp details  
60fps provides an undistorted and undelayed screen image

XPLUS FHD control box  
Lens +4, +5, +10, +25, +50  
FHD monitors  
Foot switch  
Circular tilting table  
Height adjustment table  
Glass table  
Coaxial light  
Ring light kit  
Ultra violet ring light  
Infrared ring light  
Back light

Included:  
Ruler app  
Focus stacking app

Optional:  
Watermark app  
Measurement app  
Verification lines app  
Image comparisson app

ACCESSORIES / APPS

TAGARNO FHD ZIP is a simple and user-friendly digital microscope, which enables you to operate the digital microscope without any further training. This is a digital microscope for manual visual inspection with magnification shown in superb FULL HD image and video quality.

#### FEATURES AND BENEFITS

High magnification levels (330X) and 30x optical zoom  
Large workspace area beneath the camera  
On screen ruler for quick measurements  
Effortless image and video capture to PC and USB  
Great 1080p image quality provides ultra-sharp details  
60fps provides an undistorted and undelayed screen image

XPLUS FHD control box  
Lens +3, +4, +5, +10, +25  
FHD monitors  
Foot switch  
XY-Table  
Circular tilting table  
Height adjustment table  
Glass table  
Coaxial light  
Ring light kit  
Ultra violet ring light  
Infrared ring light  
Back light

Included:  
Ruler app  
Focus stacking app

Optional:  
Watermark app  
Measurement app  
Verification lines app  
Image comparisson app

ACCESSORIES / APPS

### TAGARNO FHD ZAP



ACCESSORIES

#### FEATURES AND BENEFITS

Flexible camera to be placed wherever needed  
Cost-efficient and user-friendly tool  
Effortless image and video capture to PC via USB  
Great 1080p image quality and ultra fast framerate 60fps  
Boost colors for great reproduction of objects  
Manually adjust light settings for perfect lighting  
Save presets for quick recall of specific settings

Basic, advanced and inline flex arms  
External XKEY control box  
FHD monitors  
Lens +2, +3, +4, +5 and +10  
Foot switch  
Light kits: Coaxial, ultra violet, ring and back light  
Tables: XY, Height adjustable, Glass and Circular tilting table

#### FEATURES AND BENEFITS

Cost-efficient solution with many accessories  
On screen ruler for quick measurements  
Effortless image and video capture to PC and USB  
Great 1080p image quality provides ultra-sharp details  
60fps provides an undistorted and undelayed screen image

XPLUS FHD control box  
Lens +3, +4, +5, +10  
FHD monitors  
Foot switch  
XY-Table  
Circular tilting table  
Height adjustment table  
Glass table  
Coaxial light  
Ring light kit  
Ultra violet ring light  
Infrared ring light  
Back light

Included:  
Ruler app

Optional:  
Focus stacking app  
Watermark app  
Measurement app  
Verification lines app  
Image comparisson app

ACCESSORIES / APPS

TAGARNO FHD ZAP is a space-saving and quick digital microscope for manual visual inspection in quality control processes in superb FULL HD image quality. The simplicity and intuitive control box enables you to easily control this simple and user-friendly digital microscope.

### TAGARNO FHD PRESTIGE



### TAGARNO FHD TREND



### TAGARNO FHD UNO



## FOCUS STACKING

Easily create high quality documentation images of items with varying height with the TAGARNO Focus Stacking Application.

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.

In TAGARNO FHD UNO, the application is preinstalled, but an additional license key must be purchased to activate it.

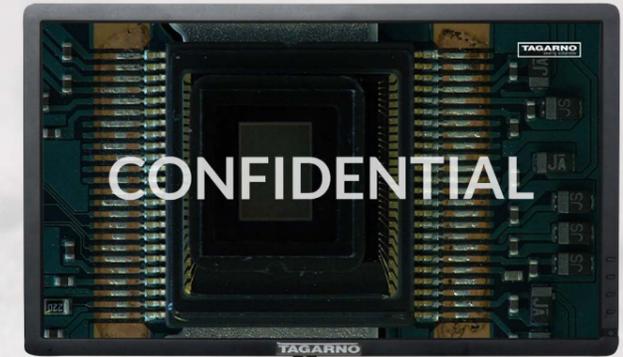
This application is installed and ready to use by default in TAGARNO FHD TREND and FHD PRESTIGE.



## WATERMARK

With the TAGARNO Watermark Application, you can brand your images by applying your logo, confidential text or any image to highlight your image with a watermark. You can also apply prefix date, time, field of view plus microscope name and serial number as an imprint on the image.

The TAGARNO Watermark app is compatible with the TAGARNO FHD UNO, FHD TREND and FHD PRESTIGE once a license has been obtained.



## RULER

With the Ruler application that comes preinstalled with the TAGARNO FHD UNO, FHD TREND and FHD PRESTIGE, you can quickly and easily measure an object placed underneath the camera. Place the on-screen ruler vertically and/or horizontally according to the object you need to measure and change the color of the ruler for optimal visibility.

Save an image of your measurement and share with your colleagues and partners in the supply chain for easy communication.

Precision of ruler: 0,5%

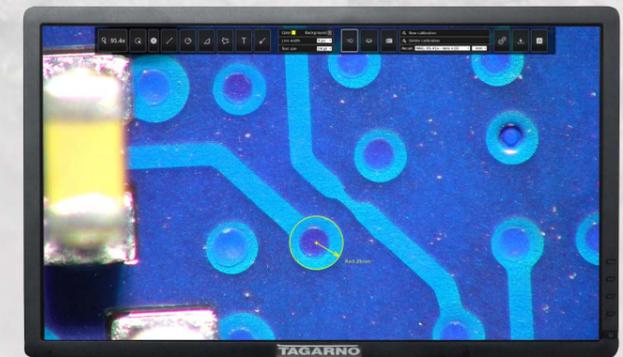


## MEASUREMENT

TAGARNO Measurement Application enables you to perform precise measurements as well as add text and arrow annotations directly from your FHD microscope - no external computer needed.

The TAGARNO Measurement Application works with TAGARNO FHD UNO, FHD TREND and FHD PRESTIGE.

Once a mouse has been connected directly to your microscope and a quick installation plus activation of the software has been performed, you can easily save images to a USB memory stick with or without applied graphics for internal communication.



## IMAGE COMPARISON

This app is developed for the electronics industry but has the option to do comparison with or without alignment. The app works brilliantly to quality control of circuit boards as it allows you to compare pcb samples to a reference image of a golden sample in various ways.

All you need is a mouse and keyboard connected directly to your microscope to control a variety of features. The Image Comparison Application works with all TAGARNO UNO, FHD TREND and FHD PRESTIGE models.

You are able to switch to live view, save and recall templates, add text, arrow and circular annotations and adjust colors.



## VERIFICATION LINES

With the TAGARNO Verification Lines Application, you can quality check objects based on accurately calibrated measures by placing vertical and/or horizontal lines as a layer on top of your object - directly from your digital microscope with the help of a mouse and keyboard.

The TAGARNO Verification application works with all TAGARNO FHD UNO, FHD TREND and FHD PRESTIGE models.

TAGARNO Measurement application is required in order to run this application.



## X PLUS FHD CONTROL BOX

Set up a complete work station with this control box for digital camera microscopes from TAGARNO. The XPLUS FHD control box allows you to easily control the digital camera microscope and provides you with access to a series of camera settings in the setup menu on the microscope.

Art.no.: 304000 | XPLUS FHD CONTROL BOX BLACK

For: TAGARNO FHD PRESTIGE, TAGARNO FHD TREND and TAGARNO FHD UNO.



## XKEY CONTROL BOX

This user-friendly control box controls magnification and focus on your TAGARNO digital video microscope. The microscope control box is intuitive and you do not need time to adjust yourself to use it.

When used with TAGARNO FHD TREND, FHD PRESTIGE or FHD UNO the control box also allows you to manually adjust iris, gain and exposure time.

Art.no.: 403040 | XKEY CONTROL BOX

For: All TAGARNO digital microscopes.



## FOOT SWITCH

Control the level of magnification on your digital microscope without using your hands, when using this foot switch from TAGARNO. Perfect for activities that require both controlling the magnification levels and at the same time using both hands to control the magnified objects. It is also able to adjust the focus by pressing both pedals at the same time.

Art.no.: 403005 | FOOT SWITCH

For: All TAGARNO digital microscopes.



## LENS +2, +3, +4 AND +5 / 58 MM

TAGARNO offers a selection of high quality achromatic lenses. The lenses can be combined in a variety of ways, allowing you to create the level of magnification that suits your purpose best.

Art.no.: 109198 | LENS +2 (only for TAGARNO FHD ZAP)

Art.no.: 108780 | LENS +3

Art.no.: 108691 | LENS +4

Art.no.: 108692 | LENS +5

For: TAGARNO FHD ZIP (from 31454), TAGARNO FHD ZAP, TAGARNO FHD UNO, TAGARNO FHD TREND and TAGARNO FHD PRESTIGE.



## LENS +10 / 58 MM

TAGARNO offers a high quality achromatic +10 lens.

Art.no.: 109080 | LENS +10 / 58mm.

For: TAGARNO FHD ZAP, TAGARNO FHD UNO, TAGARNO FHD TREND and TAGARNO FHD PRESTIGE.



## LENS +25 / 26 MM

TAGARNO offers a high quality +25 lens. LENS MOUNT +25 LENS (Art.no. 490640) is included. 26mm.

Art.no.: 109143 | LENS +25 / 26mm.

For: TAGARNO FHD TREND and TAGARNO FHD PRESTIGE.



## LENS +50 / 26 MM

TAGARNO offers a high quality +50 lens. LENS MOUNT +50 LENS (Art.no. 490640) is included. 26mm.

Art.no.: 108860 | LENS +50 / 26mm.

For: TAGARNO FHD PRESTIGE.



## MAGNETIC LENS RING

The Magnetic lens ring kit gives the ability to swiftly change lens without irritation and time consuming operation.

The Magnetic lens ring kits includes: 2 x Magnetic lens rings and 1 x steel ring  
 Art. no.: 303020 | Magnetic lens ring kit TREND  
 Art. no.: 303030 | Magnetic lens ring kit PRESTIGE

If needed, you can purchase an additional Magnetic lens ring  
 Art. no.: 303040 | Magnetic lens ring TREND  
 Art. no.: 303041 | Magnetic lens ring PRESTIGE

For: TAGARNO FHD TREND and TAGARNO FHD PRESTIGE.



## RING LIGHT KIT / BASIC

BASIC RING LIGHT KITS include RING LIGHT WHITE, FRESNEL LENS and BASIC LED CONTROL BOX.

Art.no.: 108774 | BASIC RING LIGHT KIT / +4 or +5 LENS  
 Art.no.: 108459 | BASIC RING LIGHT KIT / +7 to +10 LENS  
 For: TAGARNO FHD UNO, TAGARNO FHD TREND and TAGARNO FHD PRESTIGE.

Art.no.: 108775 | BASIC RING LIGHT KIT / +25 or +32 LENS (only HD)  
 For: All TAGARNO digital microscopes.



## PROTECTIVE LENS COVER / 58 MM

Protective cover for the lens to keep it clean and prevent damage.

Art.no.: 108780 | LENS +3 / 58mm  
 Art.no.: 108691 | LENS +4 / 58mm  
 Art.no.: 108692 | LENS +5 / 58mm  
 Art.no.: 109070 | LENS +10 / 58mm

For: TAGARNO FHD ZIP (from 31454), TAGARNO FHD ZAP, TAGARNO FHD UNO, TAGARNO FHD TREND and TAGARNO FHD PRESTIGE.



## RING LIGHT KIT / ADVANCED

ADVANCED RING LIGHT KITS include RING LIGHT WHITE, FRESNEL LENS and ADVANCED LED CONTROL BOX.

Art.no.: 108637 | ADVANCED RING LIGHT KIT / +4 or +5 LENS  
 For: All TAGARNO digital microscopes.

Art.no.: 108442 | ADVANCED RING LIGHT KIT / +7 to +10 LENS  
 For: TAGARNO FHD UNO, TAGARNO FHD TREND and TAGARNO FHD PRESTIGE.

Art.no.: 108758 | ADVANCED RING LIGHT KIT / +25 or +32 LENS  
 For: TAGARNO FHD TREND and TAGARNO FHD PRESTIGE.



## RING LIGHT WHITE

Use MULTILIGHT WHITE LR60/110 (LED ring light) when extra light settings is needed for your TAGARNO system.

Art.no.: 108436 | RING LIGHT WHITE

For: All TAGARNO digital microscopes.



## BASIC CONTROL BOX

BASIC CONTROL BOX for RING LIGHTS, COAX LIGHT and BACKLIGHT including power cord, enables you to adjust the light from 0 to 100%.

Art.no.: 109002 | BASIC CONTROL BOX

Compatible with: RING LIGHT WHITE, UV RING LIGHT, INFRARED RING LIGHT, COAX RING LIGHT and BACKLIGHT.



## FRESNEL LENSES

FRESNEL LENSES from TAGARNO are used to focus the light and should be mounted under the RING LIGHT WHITE.

Art.no.: 108632 | FRESNEL LENS / 50mm.  
 Art.no.: 108437 | FRESNEL LENS / 100mm.  
 Art.no.: 108587 | FRESNEL LENS / 200mm.

Compatible with: RING LIGHT WHITE.



## ADVANCED LED CONTROL BOX

ADVANCED LED CONTROL BOX including the AC adapter enables you to control the light in different segments.

Art.no.: 108440 | ADVANCED LED CONTROL BOX

Compatible with: RING LIGHT WHITE, UV RING LIGHT, INFRARED RING LIGHT, COAX RING LIGHT and BACKLIGHT.

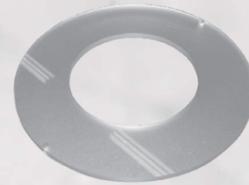


## OPTICAL DIFFUSER FILTER

To be used if the light source diodes give a point light that is too sharp. The light will be diffused through the filter.

Art.no.: 108439 | OPTICAL DIFFUSER FILTER

Compatible with: RING LIGHT WHITE.



## ULTRA VIOLET RING LIGHT KIT

The UV RING LIGHT KITS include a ULTRAVIOLET RING LIGHT and a CONTROL BOX of your preference (BASIC or ADVANCED).

Art. no.: 109026 | LIGHT KIT | UV BASIC

Art. no.: 108748 | LIGHT KIT | UV ADVANCED

For: All TAGARNO digital microscopes.



## POLARIZER RING LIGHT

To be used to minimize the direct reflection from e.g. solderings when inspecting items. Both items should be mounted on the WHITE RING LIGHT.

Art.no.: 108793 | - 58mm

Compatible with: RING LIGHT WHITE.



## INFRA RED RING LIGHT KIT

The IR RING LIGHT KIT supplies you with IR lighting in different intensities. The infrared light has a wave length of 875 nm. The ring light must be used with the BASIC or ADVANCED CONTROL BOX.

Art.no.: 108570 | LIGHT KIT | IR RING

For: TAGARNO FHD UNO, TAGARNO FHD TREND and TAGARNO FHD PRESTIGE.



## ULTRA VIOLET RING LIGHT

The UV ring light supplies you with UV lighting in different intensities. The UV light has a wavelength of 365 nm. The UV ring light can be used with both the BASIC and the ADVANCED CONTROL BOX.

Art.no.: 108569 | ULTRA VIOLET RING LIGHT

For: All TAGARNO digital microscopes.



## COAXIAL LIGHT KIT

COAXIAL LIGHT KIT transforms your optics into coaxial optics and is ideal for viewing smooth reflective objects. It is used for displaying plain, glossy specimens such as metallic surfaces, semiconductors, etc. The COAXIAL LIGHT can be mounted on LENSES 3+, 4+, 5+ and 10+.

COAXIAL LIGHT KITS include a COAXIAL LIGHT and a BASIC CONTROL BOX.

Art. no.: 109079 | LIGHT KIT | COAXIAL

For: All TAGARNO digital microscopes.



## INFRA RED RING LIGHT

RING LIGHT INFRARED supplies you with infrared lighting in different intensities. The infrared light has a wavelength of 875 nm. The ring light must be used with the BASIC or ADVANCED CONTROL BOX and can be mounted on LENSES 3+, 4+, 5+ and 10+.

Art. no.: 109093 | INFRARED RING LIGHT

For: TAGARNO FHD UNO, TAGARNO FHD TREND and TAGARNO FHD PRESTIGE.



## BACKLIGHT LIGHT KIT

The BACKLIGHT from TAGARNO is the ideal choice when you want to be able to clearly see objects through high intensity illumination. Regulation of the intensity of the backlight is possible.

BACKLIGHT LIGHT KIT include a BACKLIGHT and BASIC CONTROL BOX.

Art. no.: 108749 | LIGHT KIT | BACKLIGHT

For: All TAGARNO digital microscopes.



## TABLE, TILTING

For perfect angling of the object you are working on under TAGARNO FHD digital microscope, try our stable and maneuverable tilting table. The table plate is covered with an ESD-secure material that prevents static damage to the object you are working on and keeps it in its place.

Measures: R: 10 cm / H: 8,5 cm

Art.no.: 108271 | Tilting Table

For: TAGARNO FHD ZAP, TAGARNO FHD UNO, TAGARNO FHD TREND and TAGARNO FHD PRESTIGE.



## TABLE, HEIGHT ADJUSTABLE

For easy and precise adjustment of the focus height under your TAGARNO FHD digital microscope, try our height adjustable table. The table plate is covered with an ESD-secure material that prevents static damage to the object you are working on.

Measures: D: 200mm / W: 200mm / H: 65mm - 280mm

Art.no.: 108502 | Height Adjustable Table

For: TAGARNO FHD ZAP and TAGARNO FHD UNO.



## TABLE, SEPARATE XY

Steady XY table for easy control of the magnified object. The separate XY table is small and easy to move. The table plate is covered with an ESD-secure material that prevents static damage to the object you are working on.

Measures: Table: D: 40 cm / W: 32 cm / H: 4,2 cm  
XY table: D: 32 cm / W: 32 cm

Movement: X: 175 mm / Y: 250 mm

Art.no.: 108501 | Table Separate XY

For: TAGARNO FHD ZAP, TAGARNO FHD UNO, TAGARNO FHD TREND and TAGARNO FHD PRESTIGE.



## TABLE, INTEGRATED XY

Large and steady XY table for easy control of the magnified object. The table plate is covered with an ESD-secure material that prevents static damage to the object you are working on. Mount your TAGARNO microscope securely to this XY table.

Measures: Table: D: 52 cm / W: 52 cm / H: 5 cm  
XY table: D: 30 cm / W: 52 cm

Movement: X: 385 mm / Y: 295 mm

Art.No.: 108500 | Table, Integrated XY  
For: TAGARNO FHD UNO.

Art.No.: 303010 | Table, Integrated XY  
For: TAGARNO FHD TREND.



## TABLE, GLASS

To ensure lifelike live images on screen and provide great documentation material, we have developed a high-quality Glass table that eliminates shadows from objects when placed under the TAGARNO microscope.

Art.no.: 303000 | Glass Table

For: TAGARNO FHD ZAP, TAGARNO FHD UNO, TAGARNO FHD TREND and TAGARNO FHD PRESTIGE.



## MONITOR FHD, 22"/24"

In order to obtain the best possible image quality, it is important to choose the right monitor.

Panel format: 16:9

Signal format: 1080p

Art.no.: 108362 | MONITOR 22" FHD BLACK

Art.no.: 109099 | MONITOR 24" FHD BLACK, IPS Panel

For: All TAGARNO digital microscopes.



## MONITOR ARM

Steady and robust mounting arm with table holder for monitor. VESA 100x100, Including a spacer that eases the movement of the flexarm. Carrying capacity: 3-10 kg.

Available in both black and white and compatible with abovementioned monitors.

Art.no.: 108498 | MONITOR ARM BLACK 67mm.



## FLEXARM, BASIC

Easy to move around and fix to a table edge or a plate.

Art.no.: 108496 | FLEXARM BASIC

For: TAGARNO FHD ZAP.



## FLEXARM, INLINE

Perfect for inspecting larger samples (up to 600mm/23.62" wide) in an ergonomically correct working position.

Art.no.: 109112 | FLEXARM INLINE

For: TAGARNO FHD ZAP.

## FLEXARM, ADVANCED

Adjustable strong flexarm. Comes with screws for mounting of FHD ZAP. Including a spacer that eases the movement of the flexarm.

Art.no.: 109007 | FLEXARM ADVANCED

For: TAGARNO FHD ZAP.

## FLEXARM, WALL MOUNT

Mount your Flexarm to a wall if needed.

Art. no.: 109029 | WALL MOUNT

Compatible with: FLEXARM, ADVANCED.

## FLEXARM, EXTENSIONS

Extend the length of your Flexarm to suit your workstation.

Art. no.: 109039 | SMALL EXTENSION  
Extends with 120mm/4.72". Length: 150mm/5.91"

Art. no.: 109038 | LARGE EXTENSION  
Extends with 220mm/8.66" Length: 250mm/9.48"

Compatible with: FLEXARM BASIC, FLEXARM ADVANCED and MONITOR ARM.

## TABLE BRACKET W/ CABLE PASSAGE

Mount your microscope to a table and let the cables run seamlessly through the table for a neat and clean workstation. 67mm, BLACK.

Art.no.: 109063 | TABLE BRACKET WITH CABLE PASSAGE

Compatible with: FLEXARM BASIC, FLEXARM ADVANCED and MONITOR ARM.



## ANGLE BRACKET

This strong bracket can be mounted in three ways (left, right and top).

Art.no.: 470610 | ANGLE BRACKET

For: TAGARNO FHD ZAP.



## HANDLES

The handles enable you to get a firm grip to easily move ZAP around and place the camera in the right positions without touching the camera head.

Art.no.: 109190 | ZAP handles

For: TAGARNO FHD ZAP.



## DUST COVER

A protective dust cover that protects the units from dust and external pollution when it is not used.

Art.no.: 108906 | DUST COVER  
For: TAGARNO FHD TREND and TAGARNO FHD UNO.

Art.no.: 490650 | DUST COVER  
For: TAGARNO FHD PRESTIGE.



## CABLE DVI - HDMI

2 meter cable.

Art.no.: 108395 | CABLE DVI - HDMI

For: TAGARNO FHD UNO, TAGARNO FHD TREND and TARGARNO FHD PRESTIGE.



## CABLE, HDMI - HDMI

2 meter cable.

Art.no.: 108397 | CABLE HDMI - HDMI

For: TAGARNO FHD UNO, TAGARNO FHD TREND and TAGARNO FHD PRESTIGE.



## CLEANING KIT

We recommend the CLEANING KIT from TAGARNO for the regular maintenance of your TAGARNO digital microscope.

Art.no.: 108323 | CLEANING KIT

For: All TAGARNO digital microscopes.



## USER-FRIENDLY

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.

## ERGONOMICALLY CORRECT

Being able to obtain ergonomic correct working postures is a defining benefit of the digital microscopes from TAGARNO, which are designed with ergonomic aspects in mind. As the digital microscopes 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. A correct approach to ergonomics and a good working environment provide more energy, better results, higher efficiency and less sickness absence.

## MULTIVIEWER OPTIONS

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 connected 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.