DIGITAL MICROSCOPES

TAGARNO ZAP+

Flexible FHD digital microscope

FHD 1080p @ 60 FPS | 0.8x–660x | FLEX, INLINE or STAND Mounting | Built-in Laser Pointer | Power box Upgrade for Apps | New Camera



OVERVIEW

The **TAGARNO ZAP+** is about customization: choose the FLEX arm, the INLINE mount or the STAND to build the setup your task needs, and change it when your needs change.

Start as a simple magnification tool without software, then add the Power box later for built-in image capture, on-board apps and the Open API, instead of buying a new microscope. The new camera gives a better dynamic range, more natural colours and less noise.

KEY FEATURES

Mounting options

FLEX arm, INLINE or STAND, with working depth up to 630 mm depending on the mounting

0.8x–660x

magnetic lenses from +2 to +50, depending on the configuration

New camera

better dynamic range and colour reproduction, less noise, faster settings

Upgrade with Power box

built-in image capture, on-board apps, Open API and advanced camera settings

Laser pointer

finds the magnified area on large samples or at high magnification

LENSES AND MAGNIFICATION

Magnetic lenses available for this microscope. Magnification depends on the monitor size (24" FHD or 27" 4K).

Lens	Magnification	Field of view	Lens to object distance	Resolution
Lens +2, 58 mm (2.28")	0.8x–26.2x (24" FHD)	21.0 mm–600.0 mm	500 mm	–
Lens +3, 58 mm (2.28")	1.3x–40.1x (24" FHD)	13.4 mm–409.0 mm	333 mm	–
Lens +4, 58 mm (2.28")	1.7x–53x (24" FHD)	11 mm–290 mm	250 mm	–
Lens +5, 58 mm (2.28")	2.3x–66x (24" FHD)	8.0 mm–245 mm	200 mm	–
Lens +10, 58 mm (2.28")	4.3x–133x (24" FHD)	4 mm–87 mm	78 mm	~3 microns
Lens +25, 26 mm (1.02")	10.7x–330x (24" FHD)	1.60 mm–49.80 mm	34 mm	~2.5 microns
Lens +50, 26 mm (1.02")	21x–660x (24" FHD)	0.80 mm–25 mm	33.5 mm	~1 microns

TECHNICAL SPECIFICATIONS

Parameter	FLEX	INLINE	STAND	FLEX + PB	STAND + PB
CAMERA					
FHD camera, 1920 × 1080 @ 60/50/30/25 Hz, 2 MP	✓	✓	✓	✓	✓
4K camera, 3840 × 2160 @ 60/50/30 Hz, 8.5 MP	–	–	–	–	–
60 frames per second	✓	✓	✓	✓	✓
Optical zoom	✓	✓	✓	✓	✓
Video output	HDMI + USB 3.0	HDMI + USB 3.0	HDMI + USB 3.0	HDMI + DisplayPort	HDMI + DisplayPort
16:9 aspect ratio	✓	✓	✓	✓	✓
DIMENSIONS					
Working height	78 mm–374 mm (3.07" - 14.72")	717 mm (28.23")	78 mm–460 mm (3.07" - 18.11")	78 mm–374 mm (3.07" - 14.72")	33.5 mm–460 mm (1.32" - 18.11")
Working depth	630 mm (24.8")	420 mm (16.5")	275 mm (10.83")	630 mm (24.8")	275 mm (10.83")
Dimensions	H: 539 mm (21.2") W: 160 mm (6.2") D: 680 mm (26.8")	H: 882 mm (34.7") W: 160 mm (6.2") D: 470 mm (18.5")	H: 515 mm (20.28") W: 280 mm (11.02") D: 430 mm (16.93")	H: 539 mm (21.2") W: 160 mm (6.2") D: 680 mm (26.8")	H: 515 mm (20.28") W: 280 mm (11.02") D: 430 mm (16.93")
Weight	6.5 kg (14.3 lbs)	6.5 kg (14.3 lbs)	7.3 kg (16.1 lbs)	7.5 kg (16.5 lbs)	8.3 kg (18.74 lbs)
LIGHT					
Integrated light	–	–	–	–	–
TAGARNO Ring light compatibility (White and UV)	Lens mounted	Lens mounted	Lens mounted	Lens mounted	Lens mounted
TAGARNO Ring light compatibility (IR)	–	–	–	Lens mounted	Lens mounted
Any clamp-mounted ring light (for Ø67 mm lens)	✓	✓	✓	✓	✓

Laser pointer	✓	✓	✓	✓	✓
CONTROL					
Control box included	XKEY	XKEY	XKEY	XPLUS	XPLUS
Foot switch (Hands-free)	✓	✓	✓	✓	✓
Keyboard & Mouse	✓	✓	✓	–	–
Open API	–	–	–	✓	✓
FEATURES					
Built-in image capture	–	–	–	✓	✓
Image capture with USB 3.0 output and generic drivers	✓	✓	✓	–	–
Plug-and-play integration into online meetings	✓	✓	✓	✓	✓
File Manager	–	–	–	✓	✓
Metadata available on .jpg images	–	–	–	✓	✓
USB accessories (keyboard, mouse, barcode, USB device)	✓	✓	✓	✓	✓
Camera settings	Basic	Basic	Basic	Basic + Advanced	Basic + Advanced
Presets/favorites	✓	✓	✓	✓	✓
ESD safe	✓	✓	✓	✓	✓
On-board apps available	–	–	–	✓	✓
Update microscope with system updates/firmwares	–	–	–	✓	✓

SOFTWARE

With the Power box, the ZAP+ runs the TAGARNO on-board apps and the Open API: TAGARNO Open API, Measurement software, Ruler app, Image comparison app, PNG reference app, Verification lines app, DXF overlay app, Focus stacking app, Color analyzer app, Particle analyzer app, Speck counter app, Watermark app, Trichinoscope app. See the TAGARNO catalogue or interelectronic.com for details.

ACCESSORIES FOR THE ZAP+

Lenses: Lens +2, for FHD, Lens +3, for FHD, Lens +4, for FHD, Lens +5, for FHD, Lens +10, for FHD and 4K/Ultra HD, Lens +25, for FHD and 4K/Ultra HD, Lens +50, for FHD and 4K/Ultra HD, Magnetic lens ring kit, Protective cover lens, Lens cleaning kit; **Lighting:** Ring light white, Ring light UV, Ring light infrared (IR), Coaxial light kit, Back light kit, Polarizer set, Fresnel lens 100mm, Fresnel lens 40mm; **Control boxes:** XPLUS control box, XKEY control box, Lights control box, Control box back light + coaxial light, Foot switch, Foot switch 4; **Mounting:** Flex arm inline, Flex arm advanced, Handles for ZAP, Focus tracker, Extension block and cylinder, Camera adapter ring; **Tables:** Small separate XY table, Circular tilting table; **Monitors:** Monitor 24"; **App accessories:** White balance calibration card, White balance calibration card fixture; **Other:** Power box.

Configuration, demo and quotation

InterElectronic is the TAGARNO partner for Hungary and Central Europe: application advice, sample tests, installation, training and service.

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Specifications according to TAGARNO. ✓ = included or supported, – = not available. Subject to change without notice.