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TEKFLEXXY FHD DIGITAL MICROSCOPE (46/140X)

SKU: 159575XY

IDEAL-TEK TEK-FLEX-XY DIGITAL MICROSCOPE

TEK-FLEX-XY Full HD optical inspection system – **Anti-static ESD safe** digital microscope **46/140x**.
Connected to a monitor, it displays high quality, distortion-free images with no delay and excellent depth of field.
The telescopic arm allows for precise positioning on the X-Y and Z axes.
A wide working distance — adjustable from 60 to 310 mm on the Z axis — enables the inspection of a wide variety of objects.
The **ultra-fast autofocus** frees the operator's hands, speeding up inspection at different distances and magnifications. Used in combination with manual focus, it ensures high-speed operation and high-quality results.
Focus, magnification, brightness and much more can be easily controlled via **remote**, as well as saving images directly to the **USB stick** in screen-capture mode. Moreover, by connecting the microscope to your computer and installing the included **software**, you can also access additional screen capture, image processing and measurement features.
The system can be networked via **Ethernet** for simultaneous viewing on multiple devices with the same IP address.

ATTENTION: Ergonomic system without eyepieces, it must be connected to a monitor (NOT included)
Standard supply includes: Optical inspection system with 3 dioptres lens, telescopic arm and X-Y inspection table
- Remote control - USB memory stick with software and user manual - Monitor cable (DisplayPort-DisplayPort) -
PC cable (micro USB - USB) - Power supply.

Functioning modes

- **DisplayPort output: live streaming images on your monitor (FHD 1920x1080)**
  Connect your monitor with the DisplayPort cable and use the remote control to zoom in and out, turn auto focus on/off, fine tune your focus and much more.
- **Save images directly on USB stick**
  Insert the USB stick into the microscope to enter screen-capture mode: by pressing the "MODE" button on the remote control for a few seconds, you will save the inspection image (images only, NO videos) directly to the USB stick, without having to connect a computer.
- **USB PC output: live-streaming images on your PC (FHD 1920x1080)**
  Connect your computer to the microscope and use the included software to control the microscope from the PC. Use the software toolbar to draw, take measurements, make image comparison and more. The software is preinstalled on the included USB flash drive. It requires no driver installation and does not require a product key.
- **Ethernet connectin**
  Connect your microscope to the internet to view inspections simultaneously on multiple screens with the same IP address.

Specifications

- Supply voltage: 230 Vac
- CAMERA
  - Magnification (27" monitor): **Optical up to 46 x / Digital up to 140 x**
  - Image sensor: 1/2.8"
  - Effective pixels: 2.13 millions
- Adjustable working distance: **from 60 to 310 mm**
- Focus: Automatic, Manual
- Image capture: Image (USB stick), Image & Video (PC)
- Connectivity: Ethernet, USB memory, USB PC (micro USB), DisplayPort*, Power supply
- Segnal output: **1920 x 1080 pixel**, **60 fps** (DisplayPort), **1920 x 1080 pixel** (USB PC)
- SOFTWARE FUNCTIONALITIES
  Main toolbar: Zoom in/out, Video recording (microphone requested), Save, Save as images, Lock/unlock autofocus, Manual focus adjustment, Show crosshair, Freeze, Colour/greyscale, Digital zoom on/off, Draw mode (it opens the Draw menu with **measurements**, image comparison and more), Full screen image, Save presets (zoom).
  Draw mode menu: Rectangle (no measure values), Circle (diameter value, 3 points circle), Vertical/horizontal line (with measure value), Oblique line (with measure value and angle degree from horizontal base), Dots to mark image, Text, Free drawing, Delete, Save images with information, Open a saved image to make live comparison, Full screen, **Compare** live images with stored images (horizontally end vertically), Overlay (compare live image and stored image), Zoom in, **Calibration** (use it to get more accurate values), Settings, Back to live
- Requirements: FHD monitor (suggested), OS Windows 10 or higher
- Base dimensions: 300 x 450 mm - Height: 600 mm
- Net weight: 8 kg
- **ESD safe: Yes**
- RoHS compliant
- Plug type: C (EU)
- Battery type: Lithium cell CR1220 MFR - 3V + 2 x Alkaline AAA
- AC input: 100 - 240 V, 2.0 A, 50 - 60 Hz
- DC output: 12.0 V - 5.0 A, 60.0 W
- Idealtek product no.: TEK-FLEX-XY.

* TEK-FLEX-XY can be connected to any monitor with DisplayPort or HDMI input, using the included DisplayPort cable (HDMI

adapter NOT included).

Magnification range with the included 3 Di lens (27" monitor, 310 mm working distance):

	Magnification	**Depth of field X**	**Depth of field Y**
Optical	1.5 x	370 mm	215 mm
	2 x	285 mm	165 mm
	3 x	190 mm	110 mm
	5 x	115 mm	65 mm
	10 x	58 mm	33 mm
	20 x	29 mm	16.5 mm
	30 x	19 mm	10.5 mm
	40 x	14 mm	8 mm
	45 x	12.5 mm	7 mm
Digital	50 x	11.5 mm	6.5 mm
	60 x	9.8 mm	5.5 mm
	70 x	8.5 mm	4.5 mm
	80 x	7 mm	4 mm
	90 x	6.5 mm	3.5 mm
	100 x	5.8 mm	3.3 mm
	200 x	3 mm	1.5 mm