TEK-SCOPE HD VIDEO INSPECTION SYSTEM

Ideal-tek's TEK-SCOPE auto focus HD camera provides optical magnification of up to 30x, and digital magnification up to 300x. TEK-SCOPE produces high quality distortion free up to 1080p FHD images with no delay and with excellent depth of field. LED lights give users shadow-free illumination. The large 280 mm working distance enables inspection of a wide variety of objects. TEK-SCOPE can be used connected to a monitor or to a PC.*

HDMI Output: Live-streaming images on your Monitor (FHD 1920x1080)
Use the remote control to zoom in and out, turn auto focus on or off, insert a cross hair, fine tune your focus, and much more all with a touch of a button. Simply connect the HDMI cable and run.

USB Output: Live-streaming images on your PC (HD 1280x720)
Use the toolbar to utilize the image and measurement software. The software is preinstalled on the included USB flash drive or can be downloaded from www.ideal-tek.com. No drivers, no product keys necessary, simply install and run.

HARDWARE SPECS

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Magnification	30x optical - up to 300x digital
Frame rate	60 fps
Working distance	280 mm
Outputs	mini USB / HDMI
Lighting	built-in angled LED
Dimensions	H 410mm W 170mm D 350mm
Weight	4,5 kg
Focus	Auto/Manual

MONITOR USE ONLY

Resolution	1920x1080 (Full HD)
Monitor Size	Optional
Monitor format detect	yes
Image / Video capture	with TEK-DBOX image storage unit

COMPUTER and SOFTWARE

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Resolution	1280x720 (HD)
Operating system	Windows 10, earlier versions not fully supported
Image / Video capture	720P resolution with imaging software

* Monitor not included

APPLICATIONS

- ELECTRONICS visual inspection of printed circuit boards
- AGRICULTURAL analysis of seeds and grains
- AUTOMOTIVE control, rework
- ENGINEERING inspection of metal parts, cutting tools
- MEDICAL lab
- PHARMACEUTICALS lab
- AVIATION control, rework
- SECURITY passports control
- FORENSICS
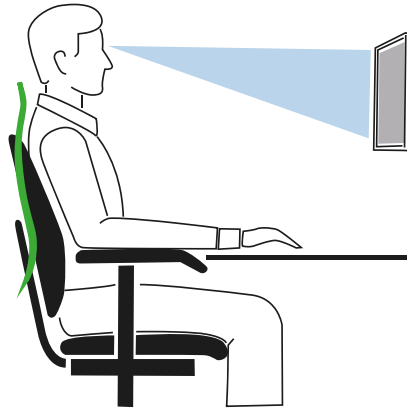- CLINICAL
- and several more areas
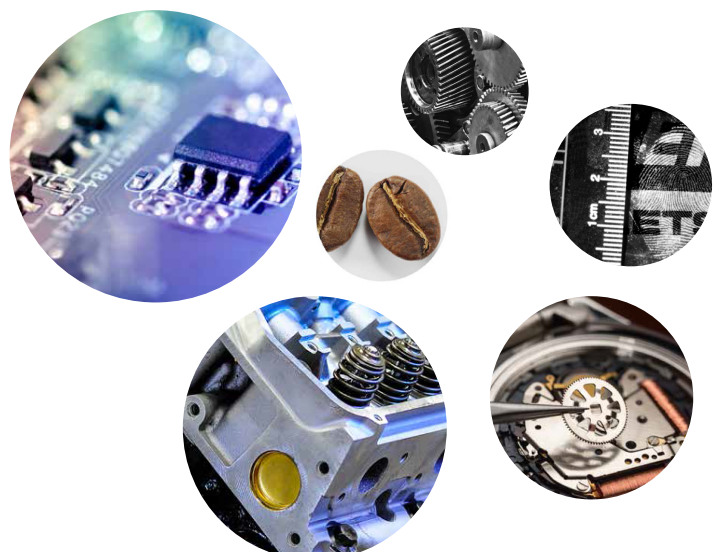
ERGONOMICS - no more neck pain, back pain or eye strain

Ergonomics plays an important role in employee productivity, stress level and overall job satisfaction.

The most vulnerable places in the body when using a standard microscope are the spine, shoulders and the neck muscles.
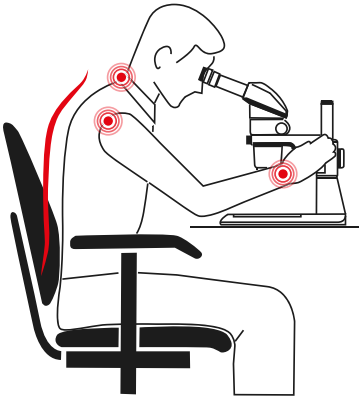
Standard Microscope   *TEK-SCOPE*

BODY LOCATION	EMPLOYEE PERCENTAGE
Neck	50-60
Shoulders	65-70
Back (Total)	**70-80**
Lower Back	65-70
Lower Arms	65-70
Wrists	40-60
Hands and Fingers	40-50
Legs and Feet	20-35
Eyestrain	20-50

Percentage of medical problems reported by microscope operators

Ergonomically designed workplaces and products are essential for a workers wellbeing. Microscopy workstations are a high strain work area. TEK-SCOPE promotes correct posture thereby reducing and eliminating workplace related stress issues and injuries.

MAIN TEK-SCOPE ADVANTAGES

- Less physical stress than binocular microscopes

- User friendly system

- Longer working distances no risk of board contact. Sufficent clearance for assembly, repair and rework

- Auto focus frees hands and allows quick inspection of objects at different heights and magnifications

- Larger depth of field for easier and quicker work

- Remote control of magnification, focus, brightness, etc

COMPARED TO STEREO MICROSCOPES		
	TEK-SCOPE	STEREO MICROSCOPE
Ergonomics	*Excellent*	Poor
Working distance	*Excellent*	Good
Focus depth	*Excellent*	Good

ACCESSORIES

TEK-SCOPE accessories offer added convenience. For more information visit ideal-tek.com

TEK-XY
Inspection table

Precision x-y gliding stage
ESD SAFE

TEK-TILT
360° Inspection table and 4D lens

Inspection from any angle
ESD SAFE

TEK-DBOX
Image storage box

Save files on SD card or USB storage, no computer required

For detailed information, read the complete user manual installed on the included USB flash drive or download from **www.ideal-tek.com**

FOV WITH 3D LENS

MAGNIFICATION	FIELD OF VIEW (X)	FIELD OF VIEW (Y)
2x	290mm	160mm
3x	193mm	110mm
5x	123mm	69mm
10x	60mm	33mm
20x	30mm	16,5mm
30x	20mm	11mm
40x	14,8mm	8,1mm
50x	11,5mm	6,5mm
60x	9,8mm	5,5mm
70x	8,5mm	4,8mm
80x	7,3mm	4mm
90x	6,4mm	3,6mm
100x	6mm	3,3mm
200x	3mm	1,6mm
300x	2mm	1,1mm

FOV WITH 3D LENS