INSPECTIS

Ultra HD Digital Microscope U30/U30s

4K ULTRA HD

Premium imaging quality available in two industrial grade form factors, U30 and U30s, that deliver the same uncompromising Ultra High Definition performance at 30x zoom range, where and how you need it!

4K UHD 3840x2160

FHD 1920x1080

- Superior 30:1 zoom with auto-focus
- Ultra HD, 8.3 megapixel 30 fps camera for careful inspection of fine detail
- Designed for outstanding optical performance at entire field of view
- Large practical working distance
- Switchable between UHD 4K and FHD output
- Options include ESD-protected housing and a built-in laser pointer

"Ultra Resolution, Ergonomic, Endlessly Versatile!"

Designed for ergonomic use

Inspectis Ultra HD digital microscopes provide relief to eyes, neck and shoulders through the unique ergonomic design and 228 mm free working distance. By allowing operators to sit comfortably in a good working position, their inspection tasks can be carried out more efficiently.

Inspectis digital microscopes offer true ease of use with minimal interaction needed with controls and settings. All basic parameters such as zoom, brightness and colour levels can be controlled by the user through on-board buttons on top of the device.

An optional built-in laser pointer aims at the area of interest and assists in locating it on the screen.

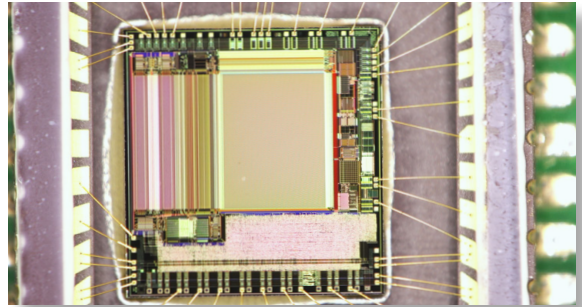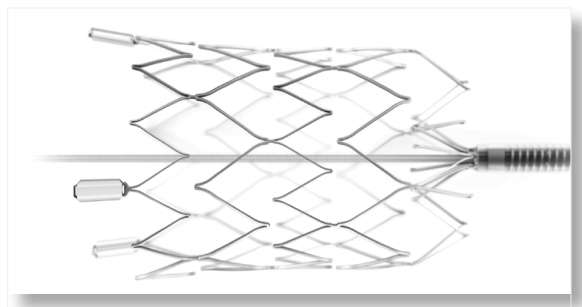U30s, Stand-alone 4K system with Single-arm Boom Stand

Thanks to its sensitive image sensor and superior optics, U30/U30s provide astonishing sharp images of the objects with minimum glare and colour fringes at entire field of view.

Electronics IC, x29 Zoom, 50x Mag.

Micro mechanics, x7.6 Zoom, 12x Mag.

Medtech, x20 Zoom with +5 Macro, 64x Mag.

The system's standard optics produces ~ 2 - 60x magnification (28" monitor). If further magnification is needed, a wide range of diopter Macro Lenses can be added to magnify up to 178x.

Forensic, x20 Zoom, 31x Mag.

"Optimised for Accurate Inspection of Medical Devices"

Making optical inspection enjoyable

Connect a U30 digital microscope to a 4K UHD display or your PC via Inspectis´ plug-&-play USB3.0 or PCIe converter and take advantage of the astonishing image resolution, high contrast, true colours at 1:30x zoom range in your optical inspection work.

The Inspectis U30 and U30s digital microscopes can significantly reduce the time you spend on inspecting parts compared with other optical visual systems.

- 1:30x Zoom Optics
- AutoFocus
- On board Controls
- Aluminium Housing
- HDMI Digital Output
- Red Laser Pointer
- Modular Design
- ESD Protected
- Stable Stands
- USB3.0/PCIe Captures
- Wide range of accessories
- Advanced Remote Controllers

The Inspectis 4K Digital Microscopes are available in two basic models:

U30, an all-in-one, plug-and-play system with integrated aluminium stand and built-in adjustable white LED illumination.

U30s, a stand-alone, totally configurable system with a variety of mounting solutions. Select between any of Inspectis' Boom type, XY-type or Articulated arm stands.

U30 with Antistatic body

U30s with Single-arm Boom Stand

"Designed according to Industry Standards"

System Specifications

System:

Video Output	Ultra HD 2160p/30, switchable to Full HD 1080p/60
Imager	8.5 Mpixels. 3840(H) x 2160(V) 16:9 format. Progressive scan CMOS image sensor
Pixel Size (resolution)	1.62 µm x 1.62 µm
I/O Ports	HDMI video output, 5P MiniDin Power input, 8P MiniDin External Remote Control
On-board Control	Zoom, Iris, Auto Focus on/off, White Balance, 4K to Full HD format swap.
External Remote Control	Zoom, Iris, Manual/Auto Brightness, Manual/Auto Focus, White Balance, Picture Quality Mode, Display Text, Haircross overlay, Image Rotate, Image Freeze, Memory Save/Recall (2 pcs), Foot-switch, Video Output Format and Frame Rate.
Illumination	Integrated Long-life 18x ultra bright pure white LEDs with direction adjustment (U30 model). Optional external RingLight (U30s model)
Storage Environment	-20° – +60°C, 20 - 95% RH, non-condensing
Operating Environment	-5 ° – +40°C, 20 - 95% RH, non-condensing
Size, Weight U30	395 x 240 x 360 mm including metal base, 4.5 kg. including metal base
Size, Weight U30s	φ 86.5 x 137mm exclusive cable. 1.1 kg. excluding stand

Optics:

Optical system	30x Zoom with Auto Focus and Iris Control
Working distance	228 mm (from lens to object at maximum zoom factor)
Magnification x1-x30 zoom factor	~ 2.0x ~ 60x on 28" monitor (~ 196x with +10 macro lens @ x30 zoom)
Field of View at x1-x30 zoom factor	~ 297mm (H) to ~ 9.9 mm (H) (~ 93mm (H) to 3.1mm (H) with +10 lens)
Laser pointer	Red LED with automatic through-optics alignment

4K ULTRA HD

HDMI HIGH-DEFINITION MULTIMEDIA INTERFACE

CERTIFIED HI-SPEED USB 3.0

Ordering numbers Inspection Systems:

Item name	Order No.
Inspectis U30, Ultra HD 2160p Digital Macroscope, Integrated Stand, LED, HDMI	HD-015
Inspectis U30s, Ultra HD 2160p Digital Macroscope, Modular, HDMI	HD-016
With Antistatic housing	* -E
With Laser Pointer	* -L

Ordering numbers optional Accessories:

Remote Camera Control with Advanced Adjustments for Inspectis Microscopes	HD-020
Foot switch for Remote Camera Control	HD-027
Macro lens +1 diopter, 67mm	HD-036
Macro lens +2 diopter, 67mm	HD-037
Macro lens +3 diopter, 67mm (Achromatic)	HD-038
Macro lens +5 diopter, 67mm (Achromatic)	HD-039

Ring Light White LED with detachable diffuser	HD-024-B
Polarization filter set for Ring Light, 67mm	HD-024-P-U
Ring Light UV 365-375nm wavelength LED	HD-025
4K HD USB3.0 Capture with software Basics	HD-043
4K HD USB3.0 Capture with software Pro	HD-044
4K HD USB3.0 Capture with software ProX	HD-044-PX
4K HD PCIe Capture	HD-035
External Image Capture and Video Recorder	HD-140-EU
XY Floating Board, Antistatic	HD-028
XY Floating Board with position lock, Antistatic	HD-028-L
Tilt Board, Antistatic	HD-029
Aluminium carrying case	HD-040
Single-arm Boom stand	HD-060
Double-arm Boom Stand	HD-070
Articulated-arm Boom Stand	HD-080
Rack-&-Pinion Fine Focusing module	HD-090

Reseller

:: INSPECTIS

Quality of Inspection

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