

ORION
industry



Digital Microscope
Inspection Systems



**FULL HD
1080p**

Full HD 1080p
Image Quality



Image Capture
to USB key



Integrated, Real-Time,
On-screen Dimensioning
Grids & Cursors.

Inspex HD 1080p Vesa FI801-018

The Inspex HD 1080p is a high definition camera inspection system offering superb 1080p full HD image quality, colour reproduction, contrast and resolution. Its versatile design makes it compatible with a wide range of mounting options. Real-time on-screen dimensioning is provided by integrated XY grids and cursors.

Key Features:

- Accurate & detailed inspection with superb HD image resolution, dynamic range of magnification levels & integrated LED illumination.
- Real-time on-screen dimensioning provided by integrated XY grids & cursors
- Less operator fatigue & improved production efficiencies due to ergonomic design enabling user to sit or stand in a comfortable and safe posture providing relief from back, neck and eye strain typically associated with traditional microscopes.
- Easy documentation & traceability for accurate quality control records using image capture to USB key.

Applications:

The Inspex HD 1080p is suited for repair & rework, quality control & failure diagnosis processes in industries such as: Automotive, aviation, electronics, engineering, forensics, jewellers, medical devices, packaging & labelling, pharmaceuticals and security.



FI801-027

FI801-028

FI801-018

FI801-024

€3399.00



KP1 External Keypad

FI 801-008

The optional KP1 unlocks integrated real-time on-screen dimensioning grids and cursors. It also allows access to a variety of functions including 3 Memory Presets, Exposure and Focus, Zoom, Brightness, LED Intensity, Image Capture...



MAGNIFICATION

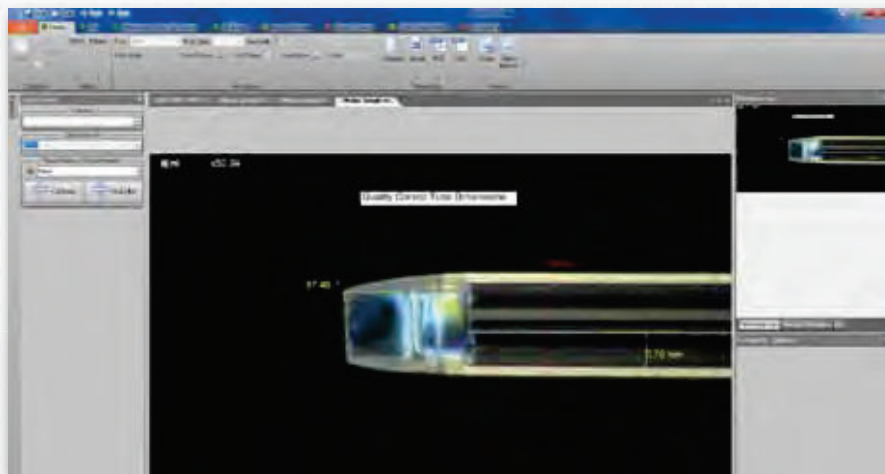
Lens (Diopetre) (mm)	Focal Distance (mm)	Max Height (mm)	Min Height	Minimum Magnification* Optical/Digital	Maximum Magnification*	Field of view at minimum mag. (mm)	Field of view at maximum mag. (mm) Optical/Digital	Depth of field
4	250	250	205	1.8	51/98	X: 280 Y: 164	X: 10.2/5 Y: 5.5/2.4	100mm @1.8x 10mm @10x
5	200	200	170	2.3	62/122	X: 225 Y: 130	X: 7.9/3.9 Y: 4.2/2.1	80mm @2.5x 6mm @10x
10	100	100	90	4.4	121/237	X: 70 Y: 63	X: 5/2.4 Y: 2.2/1.1	2mm @30x 0.5mm @50x

Technical Specifications

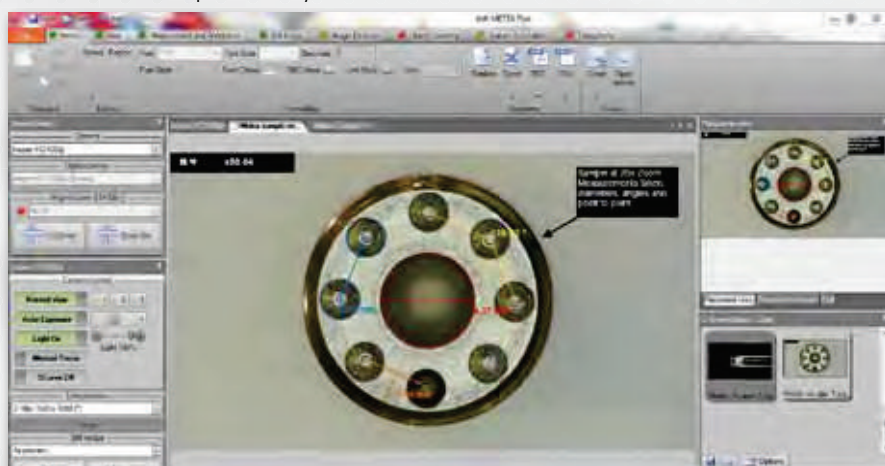
Specifications	Vesa (FI801-018)	Table (FI 801-017)
Zoom Range (with supplied lens)	5D Lens – 2.3x to 122x	4D lens – 1.8x to 98x
Camera Resolution	HD 1080p, 1980 x 1080 at 50/60 Hz	HD 1080p, 1980 x 1080 at 50/60 Hz
Monitor Connections	HDMI / DVI	
Monitor Requirements	HD Ready or Full HD (recommended)	
Dimensions	37cm x 12cm x 14cm	Table 24cm x 41cm
		Folded Height 11cm, Raised Height 42cm Weight
Weight	1.2kg	2.5kg
Power	8 Watts	
Operating Temperature	Storage: -10 C to +60C Operating +5C to +40C	
Image capture	USB 2.0 highspeed	

Metex PC Measurement Software

The perfect Inspec partner, by any measure! Metex allows advanced measurement and live Full HD Video to your PC. With the included USB 3.0 interface Metex is ready to go out of the box.



Metex Plus Control Inspec from your PC!



**Point to Point
Measurement**



Annotation



Image Comparison



**View & Record Full
HD Images & Video**



Output Reports



Multiple Languages

Key Features:

- Obtain detailed dimensions for non-contact testing
- Angle, radius, centre point distances and perimeter values
- Annotation with customisable colours and font types
- Image Comparison
- View and record Full HD images and video
- Metric and Imperial units
- Output reports in common formats such as excel, pdf, csv
- Multiple Languages

System Requirements & Specifications

Hardware	Compatible with most major chipsets and expended USB 3.0 via PCIe Gen1.1 x1, USB 2.0
Operating System	Windows 7,8,8.1
CPU	The processing of the video is done by the ASH Interface and will not occupy the CPU
Video Output	Up to 1920 x 1200 60fps
Dimensions	84.25 x 42.80 x 12.60 (LxWxH mm)
Power	<= 2.5W
Operating Temperature	Operating: 0 - 50 C Storage: -20 - 70 C

KP1 Keypad FI 801-008

Features:

- Activate Integrated XY Grids & Cursors for Dimensioning
- Camera, lighting functions & settings
- Adjust object viewing position using customisable on screen cross hairs
- Magnification, auto/manual focus & exposure
- 3 memory programmable pre-sets
- High contrast mode for enhancing objects like IC's
- Image freeze and capture of images to PC using capture cable

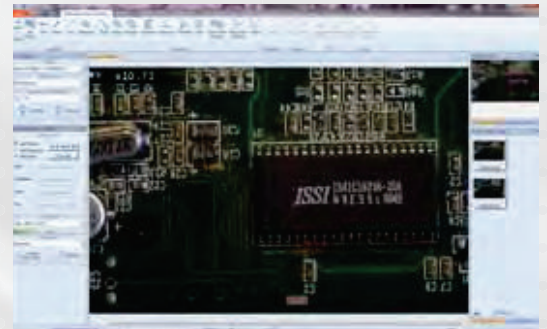


€399.00

Metex Measurement Software FI 803-001

- Obtain detailed dimensions for non-contact testing
- Angle, radius, centre point distances and perimeter values
- Annotation with customisable colours and font types
- Image Comparison
- View live Full HD Video and Capture images
- Metric and Imperial units
- Output reports in common formats such as excel, pdf, csv
- Multiple Languages
- Compatible with Win XP, Vista, 7 & 8
- USB 3.0 PC Interface Included

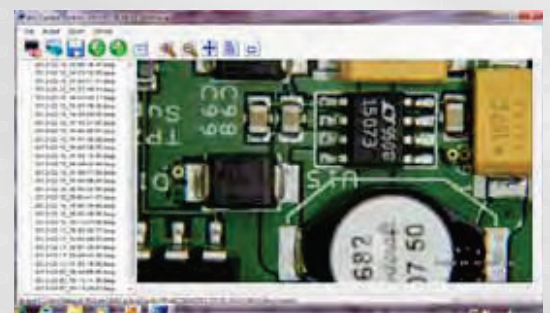
Metex



€999.00

Data Capture Software for Inspex HD 720p FI 801-007

- Allows you to instantly capture a HD frame
- Images can then be used for further processing or measurement analysis
- Images can be easily stored in a variety of common formats including bitmap, JPEG & TIFF



€499.00

Stands & Stages

Ergo Uplight Post Stand with Focus Block

AI 801-009

Monitor Arm for Ergo Post Stand

AI 100-013



€699.00

Ergo Uplight Track Stand with Focus Block

AI 100-023



€699.00

Ergo Post Stand with Focus Block

AI 100-015, 016, 017



€299.00

Ergo Track Stand with Focus Block

AI 100-020, 019, 028



€749.00

X-Y Stage

AI 100-010



X-Y Stage for Backlight with Scale

AI 100-011



€329.00

VESA Flexible Arm

AI 406-510



€499.00

Vesa Mounting Arm for Inspex & Monitor

AI 350-322



€980.00

X-Y Stage 15.7" x 14.1"

AI 801-412

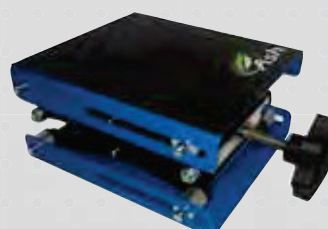


€429.00

Height Adjustable Stage

6" x 6" AI 801-413

8" x 8" AI 801-420



€329.00

Oblique Tilting Stage

AI 801-414



€329.00

Lighting

8-Point LED Ring Light

AI 100-012



■ Polarizer
AI 100-000

€399.00

Diffused LED Dome Light

AI 100-001



€429.00

Ultraviolet Ring Light

■ 254nm Wavelength

AI 100-026

■ 357nm Wavelength

AI 100-025



€399.00

LED Fibre Optic Illuminator

AI 100-002

Available Attachments

(sold separately):

■ Single or Dual
Gooseneck

AI 100-005, 004

■ Ring Light

AI 100-006

■ Colour Filter Kit

AI 100-003

■ Polarizer

AI 100-007



€779.00

Foot Switch

AI 801-415



€299.00

52mm Lenses. 3,4,5,10x, Polarizing Filter for Inspec



Lens 3x AI 280-129

Lens 4x AI 280-125

Lens 5x AI 280-123

Lens 10x AI 280-124

INSPEX Polarizer AI 280-125

€79.00

Monitor 24"

AI 801-416



€180.00

INSPEX Hard Case

Table AI 801-561



€299.00

INSPEX Soft Case

AI 801-566



€149.00

ION

AI 801-567



€899.00

Other Accessories



2D Measurement
& Annotation



Focus Stacking



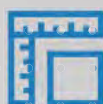
Image Overlay
Comparator



Lens Distortion
Correction



Calibration
Tracking



On Screen Reticule
Graticule



Side by Side Image
Comparison



Removable USB
Image Capture

Omni FI 805-001

The Omni is an integrated full HD (1080p) digital microscope and measurement system that operates without a PC. Omni's custom platform incorporates a highly configurable and upgradeable set of inspection and measurement applications such as focus stacking, 2D measurement, side by side and overlay image comparison, custom on screen reticule/graticule and lens distortion correction.

The Omni platform has a powerful image processing and control engine that delivers superb full HD live video image quality at 60 frames per second enabling it to be utilised as a solution in a broad range of quality control, testing, rework, assembly, inspection and documentation tasks.

The Omni GUI (Graphical User Interface) is a custom designed mouse controlled Interface delivering intuitive and efficient operation and control of the full application suite.

Its unique ability to stay in calibration over the entire zoom range is one of many features that differentiate the Omni from other digital inspection systems.

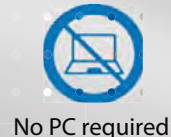
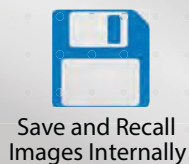
Camera control functions (auto and manual focus, exposure, gain, brightness, white balance) ensure ultra-sharp, high contrast imaging.

Omni's quick release cable free interchangeable illumination modules with intensity and quadrant control ensure shadow free illumination and glare reduction

new

ORION
industry

Intuitive Camera Control Buttons and Dial.



Magnification*

Lens (Diopetre) (mm)	Max Height (mm)	Min Height	Minimum Magnification*	Maximum Magnification* Optical/Digital	Field of view at minimum mag. (mm)		Field of view at maximum mag. (mm) Optical/Digital		Max. & Min. Depth of field	
5	200	170	2.5	62/122	X: 231	Y: 136	X: 8/4	Y: 5/2	78	.50
10	100	85	4	121/237	X: 60	Y: 50	X: 5/2	Y: 3/1	57	.20

* Specifications obtained using a 24" Monitor.

* Depth of field measured with optimal image settings.

Technical Specifications

Zoom Range (with supplied 5D lens)	2.5x – 122x		
Camera Resolution	1920 x 1080 Resolution	60 fps	30x Optical, 2x Digital
Monitor Connections	HDMI / DVI		
Monitor Requirements	HD Ready or Full HD (recommended)		
Input / Output	- HDMI Output - USB 2.0 Port x 4 - RJ45 Ethernet Connector (for networking) - General Purpose IO Port x 3 - DC Power Jack (24V)		
Image Capture	- Internal Image Storage - Removable USB Image Storage - USB On The Go (PC Connectivity)		
Power	24W		
Dimensions	216mm x 125mm x 136mm		
Weight	1.75Kg		
Operating Temperature	Storage: -10C to +60C Operating: +5C to 40C		



omni

€7,049.00

FI 805-001

Stands

Omni Illuminated Track Stand



- Weighted base for increased stability
- Dual Focus Block allows coarse and fine adjustment
- Integrated Illumination with brightness control

AI 100-036 €1,249.00

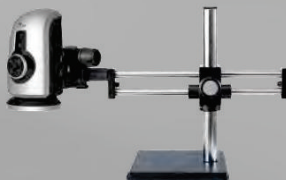
Omni Track Stand



- Weighted base for increased stability
- Dual Focus Block allows coarse and fine adjustment

AI 100-037 €899.00

Dual Arm Boom Stand



- Dual arm boom with extended reach for viewing large areas
- Focus Block included
- Available with base or bench clamp

AI 100-038 €749.00

Articulated Arm Stand



- Multi Point Adjustable arm for extended reach viewing large areas
- Focus Block included
- Available with base or bench clamp

AI 100-039 €749.00

Keyboard

Omni Wireless Keyboard



AI 800-020 €229.00

Distribué par :

ORION
industry

Orion Industry
Z.A. 16 Chemin de la Guy
F-91160 Ballainvilliers
Tél : 00 33 1 69 34 53 11
Fax : 00 33 1 69 09 31 83

e-mail : info@orion-industry.com
web site : <http://www.orion-industry.com>