



Digital Microscope Inspection Systems



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.





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	Focal	Max	Min	Minimum	Maximum	Field of view at	Field of view at	Depth of field
(Dioptre)	Distance	Height	Height	Magnification*	Magnification*	minimum mag.	maximum mag.	
(mm)	(mm)	(mm)		Optical/Digital		(mm)	(mm) Optical/Digital	
4	250	250	205	1.8	51/98	X: 280	X: 10.2/5	100mm @1.8x
	0 0 0					Y:164	Y: 5.5/2.4	10mm @10x
5	200	200	170	2.3	62/122	X: 225	X: 7.9/3.9	80mm @2.5x
						Y: 130	Y: 4.2/2.1	6mm @10x
10	100	100	90	4.4	121/237	X: 70	X: 5/2.4	2mm @30x
						Y: 63	Y: 2.2/1.1	0.5mm @50x

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	116 1000p, 1500 x 1000 at 50/00 112
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	



Inspex HD 720p

The Inspex HD 720p is a high definition camera inspection system offering 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.



Data Capture Software FI801-007

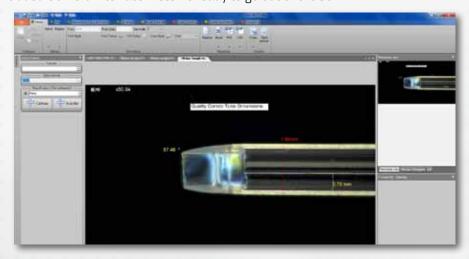
The optional capture cable allows Inspex HD 720p to save a HD frame to PC. Images can then be used for further processing or measurement analysis.



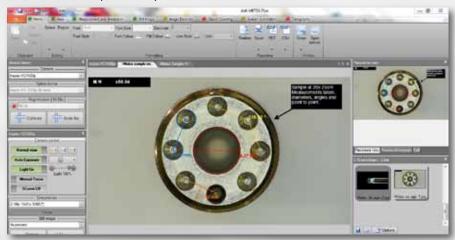
Specifications	Inspex HD Table FI 801-011	Inspex HD VESA FI 801-010	
Zoom range	4D lens – 2.0x to 48x	5D Lens – 2.5x to 60x	
(with supplied lens)			
Camera resolution	HD 720p, 1280 x 720 at 50/50 fps	HD 720p, 1280 x 720 at 50/50 fps	
Monitor connections HDMI/DVI		HDMI/DVI	
Monitor requirements	HD ready 720p with DVI or HDMI input	HD ready 720p with DVI or HDMI input	
Dimensions	Table area: 24 x 41cm, Folded height: 9cm	45cm x 12cm x 10cm	
	Raised height: 40cm		
Weight	1.1kg	1.1kg	
Power	8 Watts	8 Watts	
Operating temp.	Storage: -10°C to +60°C	Storage: -10°C to +60°C	
	Operating: +5°C to +40°C	Operating: +5°C to +40°C	

Metex PC Measurement Software

The perfect Inspex 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 Inspex 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

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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



ion 4.3" Inspection Magnifier FI 800-102

The Ion 4.3 is an award winning inspection magnifier that provides a crystal clear image for the user. Suitable for quick and immediate use, the Ion is fast to start, comfortable to hold and highly intuitive to use as the product has been designed to replicate the look and feel of an optical magnifier.

The lons display delivers an unrivalled sharp, bright and high contrast image. The lon 4.3s stunning colour image and wide viewing angle provides comfortable use in awkward to access places and in poor lighting conditions. Its unique patent applied for dimensioning grids and cursors enhance the capability and efficiency of decision making for inspection operators and technicians.

Key Features:

- Accurate & detailed inspection of a wide variety of objects enabled through lossless image quality & super sharp magnification up to 14x with high resolution TFT display and adjustable LED illumination.
- Instant on screen measurement for quick & cost effective quality assurance provided by integrated on screen XY dimensioning grids & cursor functions.
- Easy recording & traceability of one hundred images with date stamp using image capture software for accurate quality control records.
- Mobile visual inspection tool suitable for awkward to access areas & poor lighting conditions due to its compact, portable design.
- Unique Liquid lens technology provides a wide focus range, fast response time, excellent optical quality & low power consumption

Specifications	lon 4.3 FI 800-102	
Screen size and resolution	4.3" diagonal TFT display, 480x272	
Magnification	Far focus: 4x-8x & Near focus: 7x-14x	
Image storage mode	100 images in 480 x 272 pixels, 24-bit bitmap format transferable to PC via USB link	
Depth of field	3.5cm in overview, 1.5cm close	
Dimensioning cursors/grids	Yes	
Sensor	3MP CMOS, RGB565 video at 30fps	
Battery – Lithium Ion	Up to 5 hours, charge time 4 hours	
Connection cable	Micro USB cable	
Charger supply	100V – 240Vac 50/60Hz with supplied adaptor	
Unit supply voltage	5V dc, micro-USB connector	
Weight	225 grams	

ion 4.3 Inspection Magnifier











VESA compatible arm



Attaches to microscope stand

Vista HD FI 802-002

The Vista HD is a fully integrated, high definition camera inspection system where HD camera, LED lighting & 19" monitor are contained in one single unit for fast, ergonomic and reliable optical inspection.

Key Features:

- Accurate & detailed inspection of a wide variety of objects enabled by high quality HD image resolution, and a high performance HD camera with integrated LED illumination.
- Instant on screen measurement for quick & cost effective quality assurance provided by integrated on screen XY dimensioning grids & cursor functions.
- Suitable for in line quality assurance inspection processes using a unique 19" integrated display with all features & functions integrated to the one unit.
- Less operator fatigue & improved production efficiencies due to its ergonomic design enabling people to adjust their work position and allowing for group discussions & training.

Specifications	Vista HD FI 802-002	
Dimensions	45cm x 31cm x 12cm	
Weight	3.95kg	
Screen Size	19" display	
Zoom	+3D lens as standard: Zoom range: 1.35x to 37x	
Camera resolution	HD720p 1280x720 50/60 Hz	
Power	48 Watts	

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



Metex Measurement Software FI 803-01

- 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



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

- 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

















X-Y Stage 15.7" x 14.1"



Stage
6" x 6" Al 801-413
8" x 8" Al 801-420

Height Adjustable

Oblique Tilting Stage



8-Point LED Ring Light



Diffused LED Dome Light



Ultraviolet Ring Light

- 254nm Wavelength AI 100-026
- 357nm Wavelength AI 100-025



LED Fibre Optic Illuminator AI 100-002

(sold separately): Single or Dual Gooseneck AI 100-005, 004

- Ring Light
- Colour Filter Kit AI 100-003
- Polarizer AI 100-007



Foot Switch



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



Lens 3x Al 280-129 Lens 4x Al 280-125 Lens 5x Al 280-123 Lens 10x Al 280-124 **INSPEX Polarizer AI 280-125**

Monitor 24" AI 801-416



INSPEX Hard Case

Table AI 801-561



INSPEX Soft Case AI 801-566



ION Hard Case

AI 801-567



For full details please visit www.ash-vision.com



Ash Technologies Ltd.
B5, M7 Business Park
Naas,
Co. Kildare,
Ireland.
+353-45-882212
info@ash-vision.com
www.ash-vision.com

