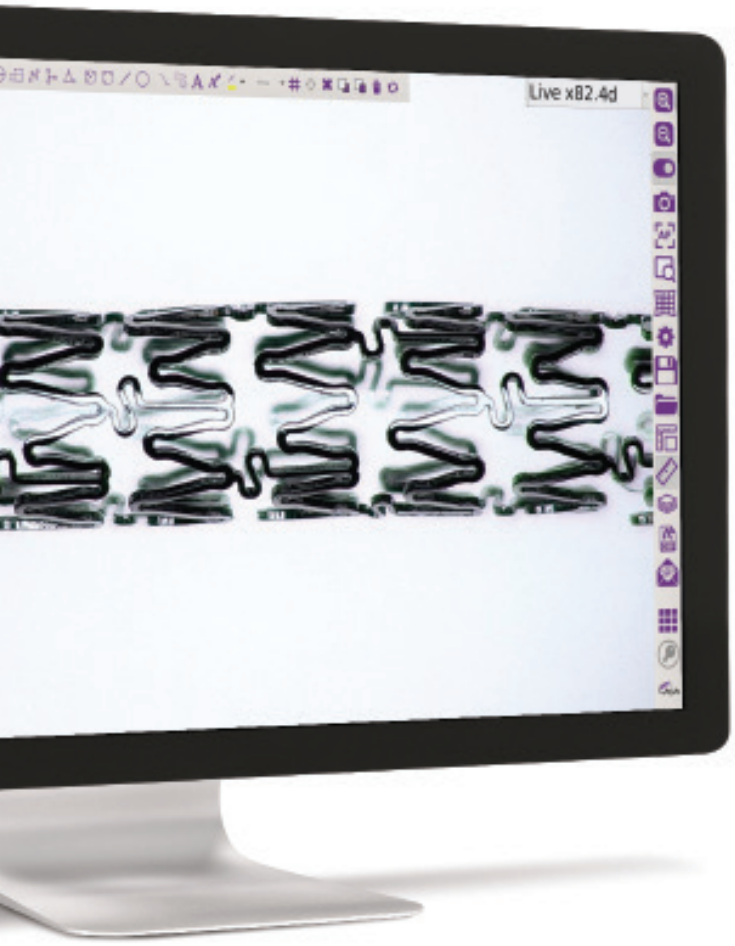
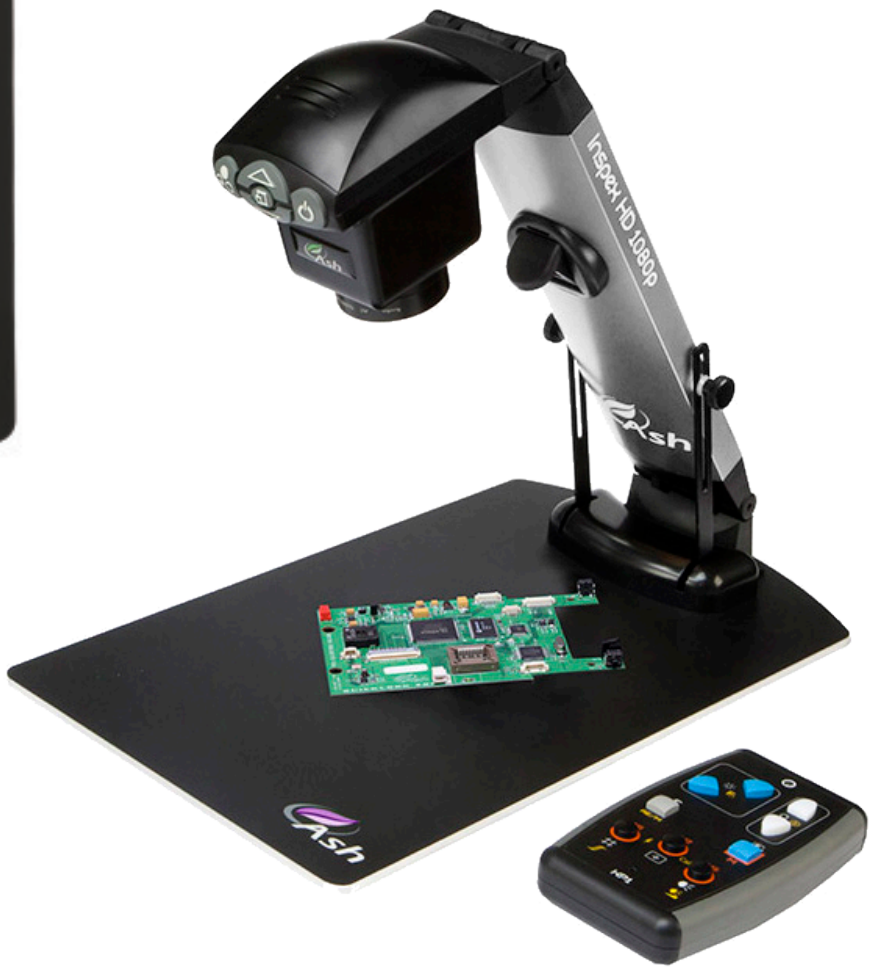
High Definition
Camera Inspection
System

INSPEX HD

1080p





INSPEX HD

1080p

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.

- Full HD 1080p Image Quality
- Image Capture to USB key
- Integrated, Real-Time, On-screen Dimensioning Grids & 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.

Jonathan Higgins, Associate R&D Engineer

Ireland

Goodman Medical

"Working in the medical device industry I've come across many different inspection and measurement platforms, many of which are highly complicated and require constant maintenance and tech support to solve update and compatibility issues. Ash Technologies' OmniCore vision and measuring system is an all-in-one platform that provided a solution to all these issues.

It gives precision measurements and high resolution, high magnification images with a simple user-friendly interface with software applications that minimise error. The inspection applications not only make identifying defects an easy task, but also simplifies and speeds up operator training and measurement applications, ensuring accurate measurement every time. Software updates can be done at the click of a button with no need for IT support and additional applications can be added just as easily if required.

All in all, I would highly recommend Ash Technologies to anyone looking to simplify and improve their vision and measurement systems. I would also like to add that they have impeccable customer service which is always a plus."

Michael Mulvi, Quality Specialist

Ireland

Conductix Wampfler

The Omni vision system we purchased from Ash Technologies has given us the ability to measure dimensions on our plastic moulded parts that we previously did not have the capability to do. In sourcing this, capability has greatly improved our ability to obtain timely approval from our customers for the new products we are constantly adding to our range.

The Image Stacking function on the Omni vision system is a feature that we have found useful. We use many bought-in high precision components on our assembly line. The Image Stacking function enables us to quickly produce high magnification photographs to highlight to our suppliers any quality issues or areas for improvement. Our suppliers greatly appreciate the precision measurement and quality of the images we can now provide them with.

Roland Rücker, Quality Engineer Optoelectronics

Germany

Heraeus Noblelight GmbH

"Our goal was to acquire a microscope with the smallest possible surface differences between 5 and 500 microns without fatigue. Likewise, we wanted to create sharp images with the abnormalities and these surveying. The implementation of these requirements has now been confirmed in practice by our employees. What also stands out is the intuitive user interface our employees were able to use within a very short time. The support from their side for commissioning and technical questions is also to be positively emphasized. We can highly recommend this microscope because of our positive experiences and you as a partner."

FI 801-027 FI 801-028 FI 801-018 FI 801-024

INSPEX vesa

INSPEX table

FI 801-017

Included System Components

LENSES

+5 Lens

OTHERS

MemoryStick,HDMICable

LENSES

+4 Lens

OTHERS

Memory Stick, HDMI Cable

Optional System Components

LENSES

+3 Lens AI 280-129

+4 Lens AI 280-125

+5 Lens AI 280-123

+10 Lens AI 280-124

Lens Polarizing Filter AI 280-145

Lens Protector AI 100-061

LIGHTS

8-Point LED Ring Light AI 100-012

Polarizer for 8-Point LED Ring Light AI 100-000

Diffused LED Dome Light AI 100-001

LEDFibreOpticIlluminator with Dual Gooseneck AI 100-033

UV Ring Light

AI 100-026 220V 254nm

AI 100-005 220V 375nm

AI 100-035 110V 254nm

AI 100-034 110V 375nm

CONTROLLERS

KP1 External Keypad AI 801-414

Required to activate dimensioning grids

Footswitch AI 801-415

OTHERS

Ash PC Capture AI 100-052

24" Monitor AI 801-416

Hard Case AI 801-561

Soft Case AI 801-566

STANDS & STAGES

XY Stage AI 100-010

- TrackStandVesaFlex Cam AI 100-028
- Track Stand Vesa & Vesa Short Flex Cam AI 100-019
- TrackStandVesaShort AI 100-020

XYStageforUplight AI 100-011

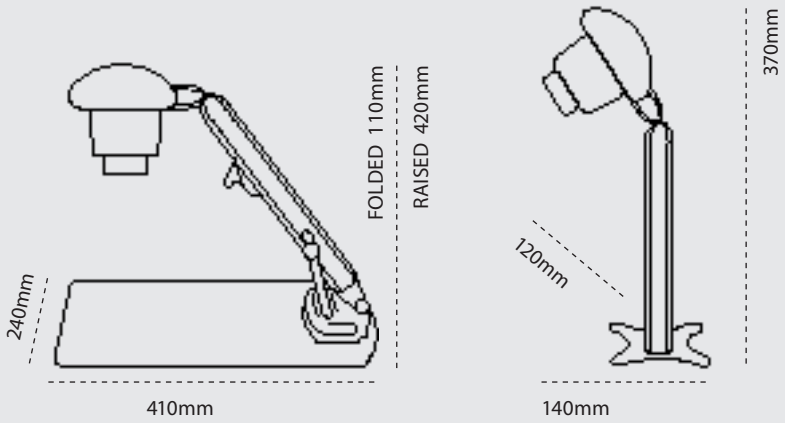
- Uplight Track Stand Vesa & Vesa Short Flex Cam AI 100-023

ObliqueTiltingStage AI 801-414

Height Adjustable Stage AI 801-413

XY Stage Large AI 100-057

No stand or stage needed for inspex table



INSPEX HD

Camera
Inspection System

Magnification

INSPEX HD 1080P

Lens (Dioptre) (mm)	2	3	4	5	10
Max Height (mm)	500	333	250	200	100
Min Height	405	280	205	170	85
Minimum Magnification*	1.1	1.3	2	2.5	4
Maximum Magnification* Optical/Digital	29/57	36/71	50/98	62/122	121/237
Field of view at minimum mag. (mm)	X: 595	X: 400	X: 280	X: 231	X: 60
	Y: 334	Y: 225	Y: 164	Y: 136	Y: 50
Field of view at maximum mag. (mm)	X:20/10	X: 14/7	X: 10/5	X: 8/4	X: 5/2
	Y:11/5.5	Y: 8/4	Y: 6/3	Y: 5/2	Y: 3/1
Maximum depth of field	176	120	106	78	57
Minimum depth of field	5	4	1	.50	.20

Specifications obtained using a 24" Monitor. *Depth of field measured with optimal image settings.

Technical Specifications

	Vesa	Table
Zoom Range (with supplied Lens)	5D Lens – 2.5x - 122x	4D lens – 2x - 98x
Camera Resolution	HD 1080p, 1920 x 1080 at 50/60 Hz	
Monitor Connections	HDMI / DVI	
Monitor Requirements	HD Ready / Full HD (Recommended)	
Power	8 Watts	
Dimensions	370mm x 120mm x 140mm	Table 240mm x 410mm Folded Height 110mm, Raised Height 420mm
Weight	1.2kg	2.5kg
Operating Temperature	Storage -10°C to +60°C Operating +5°C to +40°C	
Image capture	USB2.0 highspeed	

www.ashvision.com

At Ash we design, develop and manufacture all our user centricsolutionsin-houseandareproudofourawardwinning innovationprocess.WeusecreativeDesignThinkingtoactively empathisewithourcustomerstounderstandtheirrealunmet needsandjobstobedone.Weseekmeaningfulengagement andco-creationwithourenduserssowecandevelopthebest possiblesolutionsandservicesinthequalityassuranceindustry resultingincostsavings,increasedworkflowefficiency,waste reduction and an overall improved quality process.

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