Advanced
Digital Microscopes and Measurement Systems

MICROSCOPY ✪ METROLOGY SERVICES
Suisse made

ryf ag

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INSPEX II

simply powerful

Simply Powerful

Digital Microscope System

Productivity.

Quality.

Functionality.

AshCal™

InspexIIisfactorycalibrated before shipping. No time is wasted performing recalibrations between changing magnifications

2D Measurement & Annotation

Pointtopointmeasurement andannotationofsamples andcreationofgraticules

On-ScreenDigitalGraticules

CreateGo-No-Goonscreen digitalgraticulestoquickly identify sample defects

Save to Network

Networking enables directsavingtotheserver or cloud for increased workflow efficiency

On Screen Preset Buttons

On Screen Preset Buttons allow quick access to pre-configured part-specific system settings

User Privileges

User privilege settings enablesoperationalcontrol and traceability

Image Stamping

Image stamping with time, date, user and magnification level

Image Stacking

Inspex II automatically captures several images atdifferentfocaldepthsto createanimagebasedon thesharpestregionsfrom each capture

Applications

- In Process Visual Inspection of ComponentParts
- Final QC Release Inspection
- Standardisation and Control of InspectionProcess
- Documentationof InspectionProcess

Industries

- Electronics
- Medical Device Manufacture
- Polymers
- Metalworking
- Automotive

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 measurements 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."

INSPEX II
simply powerful

FI 806-001

Included
System Components

LENSES
+5 Lens

LIGHTS
LED Ring Light

OTHERS
WirelessKeyboardandMouse
Memory Stick
HDMI Cable

Optional
System Components

LENSES
+5 Lens
AI 280-150

+10 Plan 1x Lens
AI 100-055

+25 Lens
AI 100-053

Ash 360 Rotating Viewer
AI 801-422

PolarisingLens(Analyser)
AI 100-041

Sub-StagePolarisingFilm& Analyser
AI 801-835

Sub-StagePolarisingFilm
AI 801-836

Polarised Ringlight & Analyser (58mm)
AI 801-423

LIGHTS
Diffused LED Dome Light
AI 100-045

UV Ring Light 367nm
AI 801-421

CONTROLLERS
KPII External Keypad
FI 806-002

KIII External Keypad
FI806-003

OTHERS
Ash PC Capture
AI 100-052

24" Monitor
AI 801-416

Hard Carry Case
AI 801-563

STANDS & STAGES
XY Stage for Uplight
AI 100-011

XY Stage
AI 100-010

Large XY Stage
AI 100-057

ObliqueTiltingStage
AI 801-414

Illuminated Track Stand
AI 100-036

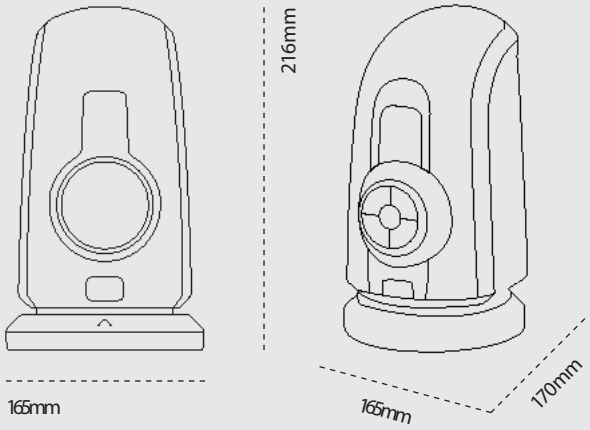
Track Stand
AI 100-037

ArticulatedArmStand
AI 100-039

DualArmBoomStand
AI 100-038

INSPEX II

Digital Microscope System



Magnification

	Lens Type	5	10 Plan 1x	25
Optical	Magnification Range (X)	2.2 - 65	4.3 - 131.0	171.6 - 331.0
	X-axis FOV (mm)	245.0 - 8.2	123.0 - 4.0	3.08 - 1.6
	Y-axis FOV (mm)	139.0 - 4.6	71.0 - 2.2	1.7 - 0.9
Digital	Magnification Range (X)	66d - 131.7d	132.0d - 263.9d	332d - 662.4d
	X-axis FOV (mm)	8.2 - 4.02	4.0 - 2.0	1.6 - 0.8
	Y-axis FOV (mm)	4.6 - 2.2	2.2 - 1.1	0.9 - 0.45
	Working Distance (mm)	200	76	35

Technical Specifications

	INSPEX II
Zoom Range (with supplied +5 Lens)	2.2 - 131.7x
Camera Resolution	1920 x 1080 pixels
Monitor Connections	HDMI / DVI
Monitor Requirements	HD Ready / Full HD (Recommended)
Input / Output	HDMI Output USB 2.0 (x4 Ports) Mini USB Port General Purpose IO (x3 Ports) DC Power Jack 24V
Internal Storage	16GB
Image Capture	Internal Storage Removable USB Image Storage USB on the Go (PC Connectivity)
Power	24W
Dimensions	216mm x 165mm x 170mm
Weight	1.75kg
Operating Temperature	Storage -10°C to +60°C Operating +5°C to +40°C

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At Ash we design, develop and manufacture all our user centric solutions in-house and are proud of our award winning innovation process. We use creative Design Thinking to actively empathise with our customers to understand their real unmet needs and jobs to be done. We seek meaningful engagement and co-creation with our end users so we can develop the best possible solutions and services in the quality assurance industry resulting in cost savings, increased workflow efficiency, waste reduction and an overall improved quality process.

reddot award
product design
winner

THE IRISH TIMES
INNOVATION
AWARDS 2017
MANUFACTURING WINNER:
ASH TECHNOLOGIES LTD

IRISH DESIGN AWARDS
INSTITUTE DESIGNERS IRELAND
WINNER 2016

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