Advanced

Digital Microscopes and Measurement Systems

MICROSCOPY • METROLOGY SERVICES

Sµisse made



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reddot award
product design
winner





Powering Potential from the core

Key Features

Not all inspection needs and requirements are the same. That's why we have developed a platform to suit a multitude of needs.



AshCal™

All Omnis are factory calibrated before shipping. No time is wasted performing recalibrations between changing magnifications



 $RTLDC^{\mathsf{TM}}$

Real Time Lens
Distortion Correction
algorithm corrects
lens distortion for
consistent inspection
across the entire
field-of-view



Save to Network

Networking enables direct saving to the server or cloud for increased workflow efficiency



User Privileges

User privilege settings enables operational control and traceability



Email

Save time by emailing directly from Omni

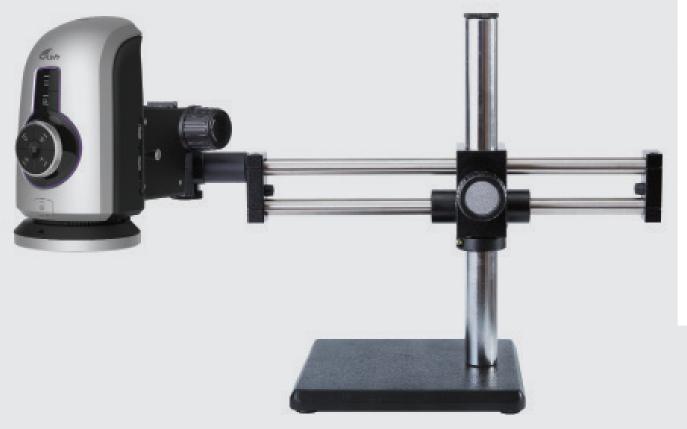


Independent of PC

Integrated software avoids the expense and task of qualifying a PC











Start with the core set, then add your apps Additional Apps



Up to 662x magnification



Up to 245mm x 139mmfieldofview



Up to 200mm workingheight



Side by Side Image
Comparator
Visually compare your live
sample image to a stored

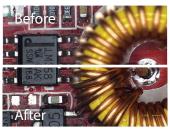
sample image to a stored masterimageintheformofa split screen



Image Overlay
Comparator
Identifydefectsbyoverlaying
and flashing the live sample
imageagainstastoredmaster
image



2D Measurement & Annotation
Accurate measurement and annotation of lines, angles & circles to accomodate a multitude of samples



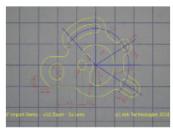
Stacking
Omniautomaticallycaptures
several images at different
focaldepthstocreateanimage
basedonthesharpestregions

from each capture

Image



On-Screen Digital Graticules
Create Go-No-Go on screen digital graticules to quickly identify sample defects



Import and modify autocad DXFfilestocreategraticules for overlay comparison with critical parts. Export DXF files generated from edge detection on parts

Import and

ASH TESTIMONIALS

Jonathan Higgins, Associate R&D Engineer Ireland

Goodman Medical

"Working in the medical device in dustry I've come across many different in spection and measurement platforms, many of which are highly complicated and require constant maintenance and tech support to solve update and compatibility issues. Ash Technologies' Omni Corevision and measuring system is an all-in-one platform that provided as olution to all these issues.

It gives precision measurements and high resolution, high magnification images with a simple user-friendly interface with software applications that minimiseer ror. The inspection applications not only make identifying defects an easy task, but also simplifies and speed sup operator training and measurement applications, ensuring accurate measurement severy time. Software updates can be done at the click of a but to nwith none edfor IT support and additional applications can be added just as easily if required.

Allinall, 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."



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

"Ourgoal 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."







ASH SYSTEM COMPONENTS





Included

System Components



000

LENSES

+5 Lens

LIGHTS

LED Ring Light

OTHERS

WirelessKeyboardandMouse Memory Stick

HDMI Cable

Optional

System Components



LENSES

+5 Lens

+25 Lens AI 100-053

AI 280-150

+10 Plan 1x Lens

LIGHTS

 ${\sf Diffused\,LED\,Dome\,Light}$

UV Ring Light 367nm

CONTROLLERS

KPII External Keypad

KPIII External Keypad

Touchscreen Workflow Controller

WorkswithmotorizedXYstage

000

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

Illuminated Track Stand AI 100-036

XY Stage AI 100-010 Track Stand

Large XY Stage

ArticulatedArmStand

DualArmBoomStand AI 100-038

Motorized XY Stage

Works with touchscreen workflow controller

Oblique Tilting Stage

Ash 360 Rotating Viewer PolarisingLens(Analyser)

Sub-StagePolarisingFilm&

Analyser

AI 801-835

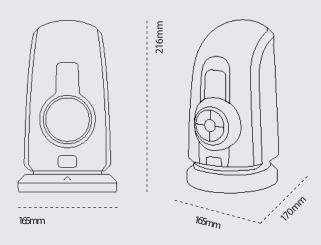
Sub-StagePolarisingFilm

Polarised Ringlight & Analyser (58mm)

Al 801-423



Advanced Digital Microscope and Measurement 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

	OMNI
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 RJ45EthernetConnector(Networking)
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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Suisse made



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At Ash we design, develop and manufacture all our user centricsolutionsin-houseandareproudofourawardwinning innovationprocess. Weusecreative Design Thinking to actively empathise withour customers to understand their real unmet needs and jobs to be done. We seek meaning fulengagement and co-creation withour endusers so we can develop the best possible solutions and services in the quality assurance industry resulting in cost savings, increased workflow efficiency, was te reduction and an overall improved quality process.







