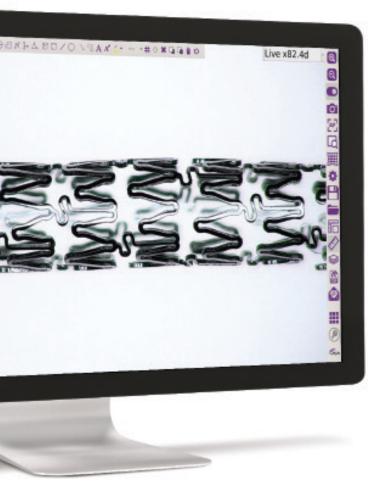
Advanced Digital Microscopes and Measurement Systems



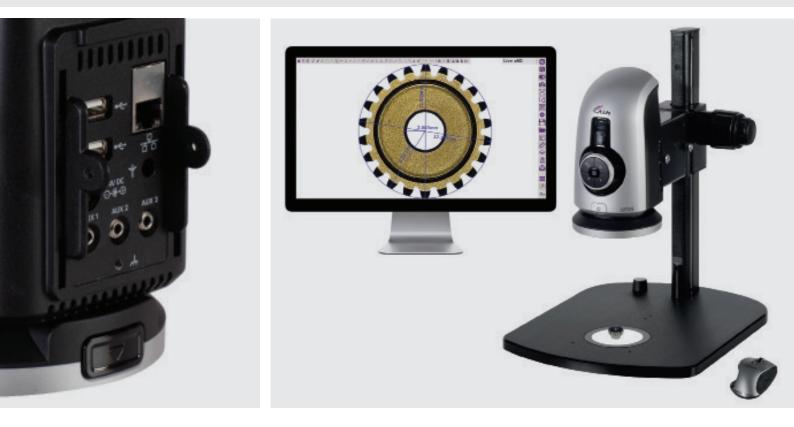








reddot award product design winner



# 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



**User Privileges** 

User privilege settings enables operational control and traceability

#### RTLDC™

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



Email

Save time by emailing directly from Omni



#### Save to Network

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



#### 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 masterimage in the form of a split screen



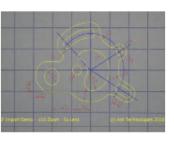
Image Overlay Comparator Identifydefectsbyoverlaying and flashing the live sample imageagainstastoredmaster image



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 Export DXF Import and modify autocad DXFfilestocreategraticulesfor overlaycomparisonwithcritical parts.ExportDXFfilesgenerated from edge detection on parts

### Jonathan Higgins, Associate R&D Engineer

Ireland

### **Goodman Medical**

"Working in the medical device industry l'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' Omni Corevision 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 abutton with none edfort IT support and additional applications can be added just as easily if required.

Allinall, Iwould highly recommend Ash Technologies to any one 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

"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."



6



## Heraeus



Core FI 805-002

# Included System Components

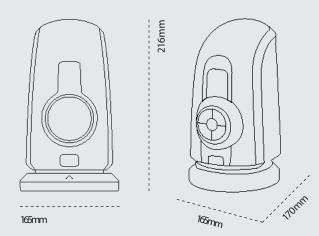
		000	
LENSES	LIGHTS	OTHERS	
+5 Lens	LED Ring Light	WirelessKeyboardandMouse Memory Stick	HDMI Cable

# Optional System Components

	Que.	[ <u>==</u> ]	Ł
LENSES	LIGHTS	CONTROLLERS	STANDS & STAGES
+5 Lens AI 280-150	Diffused LED Dome Light AI 100-045	KPII External Keypad FI 806-002	XY Stage for     Illuminated Track       Uplight     Stand       AI 100-011     AI 100-036
+10 Plan 1x Lens	UV Ring Light 367nm AI 801-421	KPIII External Keypad FI 806-003	XY Stage Track Stand
+25 Lens Al 100-053		Touchscreen Workflow Controller	Large XY Stage AI 100-057 ArticulatedArmStand AI 100-039
		AI 100-049 WorkswithmotorizedXYstage	DualArmBoomStand
Ash 360 Rotating Viewer		000	Motorized XY Stage AI 100-050
		OTHERS	Works with touchscreen workflow controller
PolarisingLens(Analyser) AI 100-041		Ash PC Capture AI 100-052	ObliqueTiltingStage
Sub-StagePolarisingFilm& Analyser		<b>24" Monitor</b> AI 801-416	
AI 801-835		Hard Carry Case	
Sub-StagePolarisingFilm AI 801-836		AI 801-563	
Polarised Ringlight & Analyser (58mm) AI 801-423			

OMNI

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**

Zoom Range (with supplied +5 Lens)
Camera Resolution
Monitor Connections
Monitor Requirements
Input / Output
Internal Storage
Image Capture
Power
Dimensions
Weight
Operating Temperature

O	MNI
2.2	- 131.7x
192	20 x 1080 pixels
HD	MI / DVI
HD	Ready / Full HD (Recommended)
USI Mir Gei DC	MI Output B 2.0 (x4 Ports) ni USB Port neral Purpose IO (x3 Ports) Power Jack 24V ISEthernetConnector(Networking)
160	GB
Rer	ernal Storage movable USB Image Storage B on the Go (PC Connectivity)
	5 5 mm x 165 mm x 170 mm
	5kg
	orage -10°C to +60°C erating +5°C to +40°C

www.ash-vision.com

Authorized Dealer: Meyer Instruments, Inc. 4202 Bear Lodge Court Houston, TX 77084 www.meyerinst.com 281-579-0342



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. Contact Us.

Ash Technologies Ltd. B5, M7 Business Park, Naas, Co. Kildare, W91 P684, Ireland.

P: + 353-45-882212E: info@ashvision.comW: www.ashvision.com



reddot award





