omni
core

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™

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

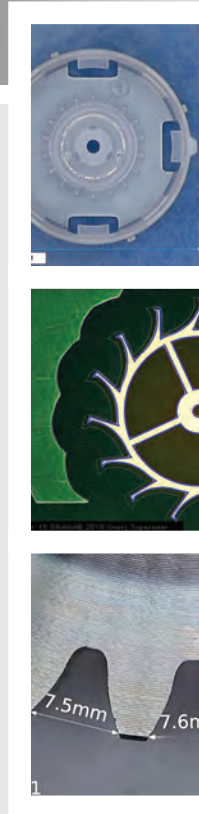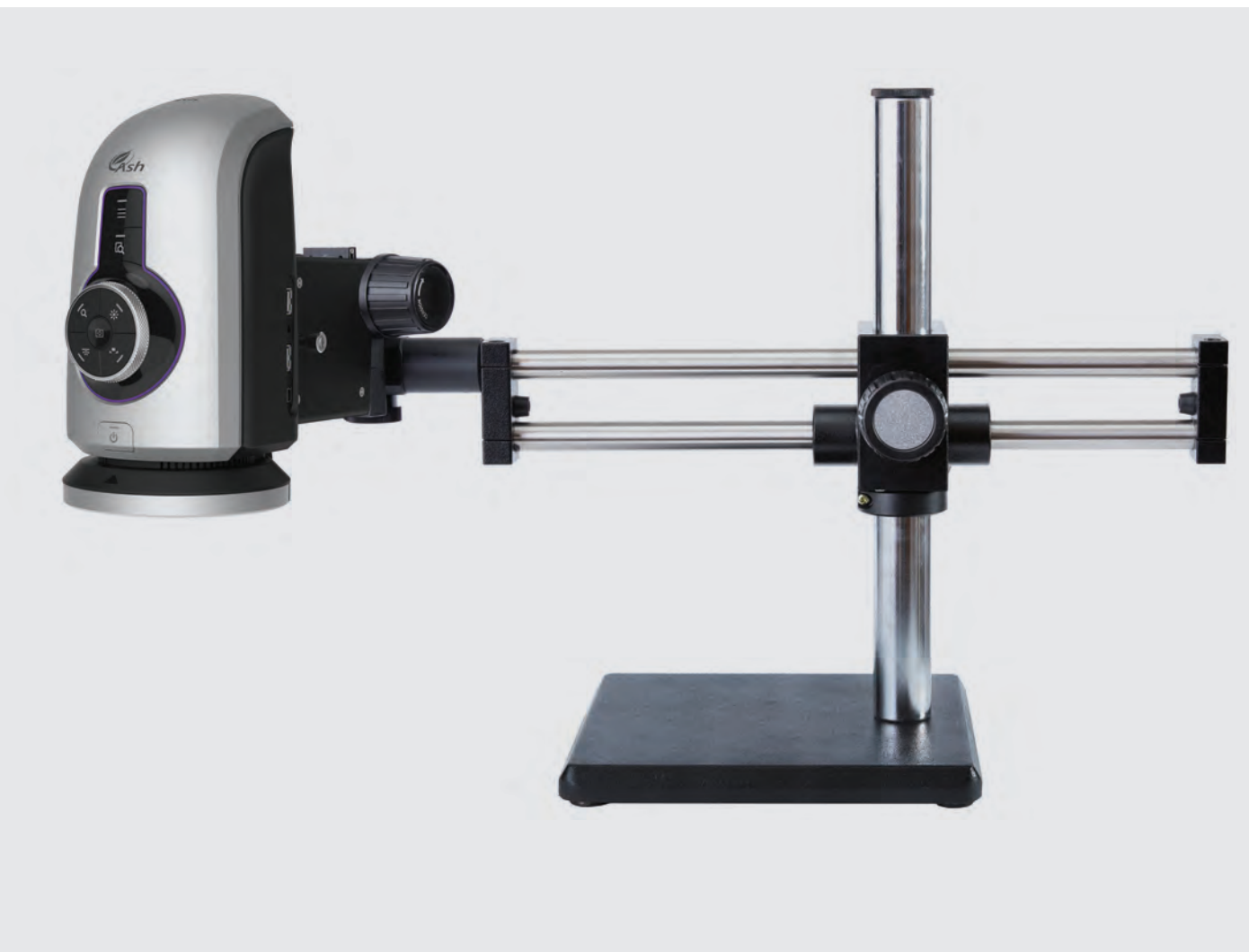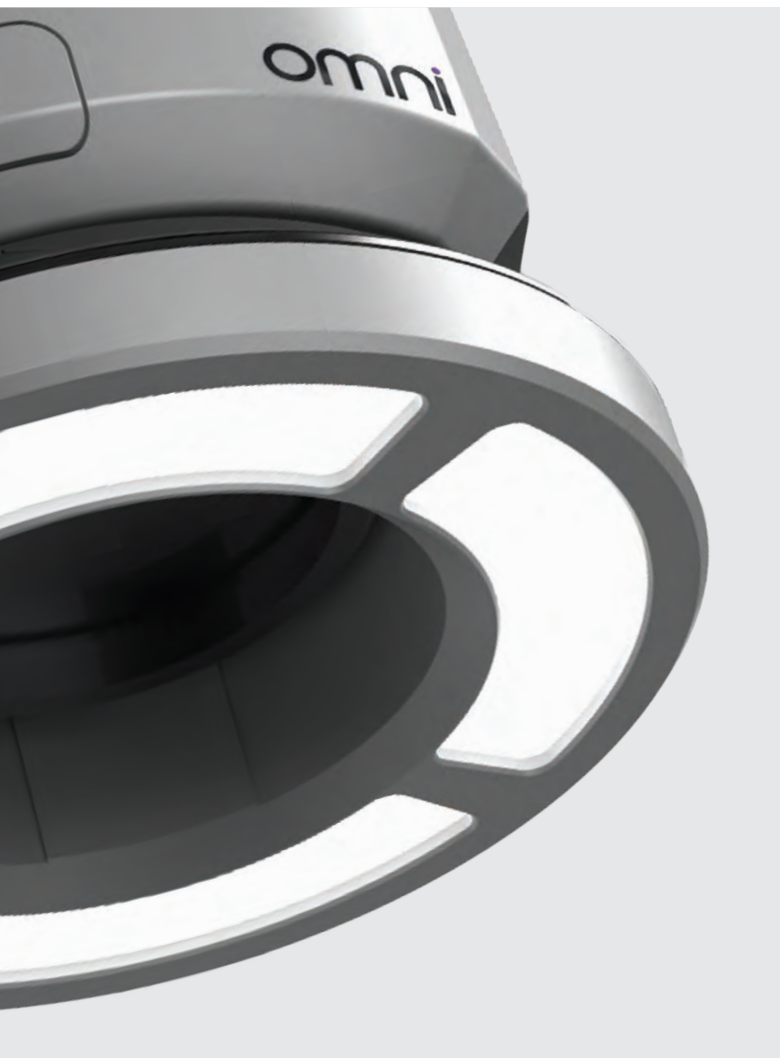User privilege settings enables operational control and traceability

Email

Save time by emailing directly from Omni

Independent of PC

Integrated software avoids the expense and task of qualifying a PC

7.5mm

7.6mm

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

Up to 662x magnification

Up to 245mm x 139mm field of view

Up to 200mm working height

Side by Side Image Comparator
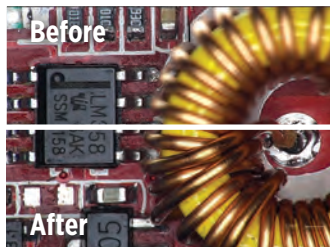Visually compare your live sample image to a stored master image in the form of a split screen
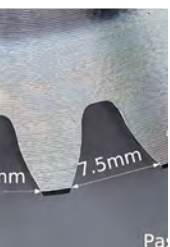
Image Stacking
Omni automatically captures several images at different focal depths to create an image based on the sharpest regions from each capture

Before
After

Image Overlay Comparator
Identify defects by overlaying and flashing the live sample image against a stored master image

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

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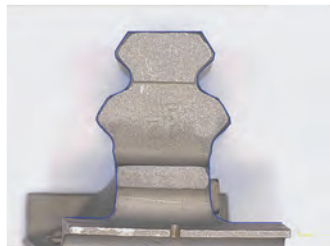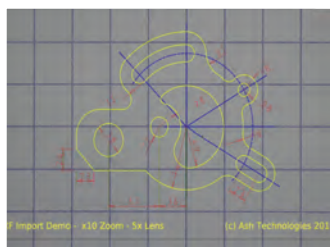Accurate measurement and annotation of lines, angles & circles to accomodate a multitude of samples

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

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' Omni Core 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."

Mark Jones, Technical Field Service Manager
USA
Rolex

"In the jewellery industry you have the 4 C's cut, color, clarity, and carat weight. In watchmaking education you have the 4 D's: demonstration, deliberation, documentation, and discover. In educating student's about the small world of watchmaking, we need tools that can transport them into this world.

The Omni core is an excellent digital microscope for us because it is a stand-alone system.
It has a great focal distance for demonstration and it offers many built in tools and optional accessories that help us communicate, measure and collect images.

The Omni helps us and our students evaluate and understand this tiny complex world. It also comes with a great team of people that have helped us quickly and efficiency, answering questions and giving us technical support."

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."

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FI 805-002

Included
System Components

LENSES
+5 Lens

LIGHTS
LED Ring Light

OTHERS
Wireless Keyboard and Mouse   Memory Stick   HDMI Cable

Optional
System Components

LENSES

+5 Lens
AI 280-150

+10 Lens
AI 280-131

+10 Plan 1x Lens
AI 100-055

+25 Lens
AI 100-053

Ash 360 Rotating Viewer
AI 801-422

Polarising Lens
AI 100-041

LIGHTS

Diffused LED Dome Light
AI 100-045

UV Ring Light 367nm
AI 801-421

Polarised Ringlight & Analyser
AI 801-423

CONTROLLERS

KPII External Keypad
FI 806-002

Touchscreen Workflow Controller
AI 100-049
Works with motorized XY stage

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

Motorized XY Stage
AI 100-050
Works with touchscreen workflow controller

Oblique Tilting Stage
AI 801-414

Omni Illuminated Track Stand
AI 100-036

Omni Track Stand
AI 100-037

Articulated Arm Stand
AI 100-039

Dual Arm Boom Stand
AI 100-038

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.

Contact Us.

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

P: + 353-45-882212
E: info@ash-vision.com
W: www.ash-vision.com