omni

DIGITAL IMAGING SYSTEM

Live x8.8

Ø 0.0355" Ø 0.0355"

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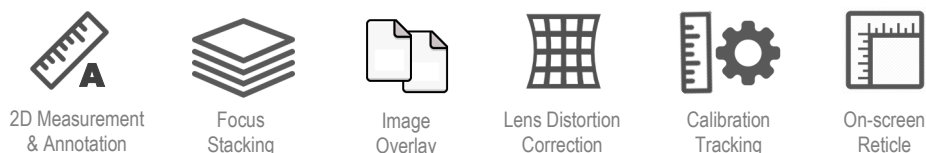
Sleek sophistication in a versatile ergonomic design provides 1080p HD digital imaging with superb HD image quality, color reproduction, contrast and resolution.

EXCELLENCE BY DESIGN

omni
DIGITAL IMAGING SYSTEM

UNITRON®

Built-in, On-board

2D Measurement & Annotation

Focus Stacking

Image Overlay

Lens Distortion Correction

Calibration Tracking

On-screen Reticle

Image Overview
Zoom
Ring Light Intensity

Mode
Image Brightness
Image Capture
Manual Focus
Power

Side by Side Comparison

Removable USB Image Capture

Save & Recall Images Internally

Transfer Images To PC Via USB

Intuitive Graphical User Interface

No PC Required

Key Features

UNITRON's omni Digital Imaging System is an integrated full HD (1080p) digital microscope and measurement system that operates without a PC. The custom platform incorporates a highly config-urable and upgradeable set of inspection and measurement applications such as focus stacking, 2D measurement, side by side and overlay image comparison, custom on-screen reticle, and lens distortion correction.

The omni 's platform has a powerful image processing and control engine that delivers superb full HD live video image quality at 60 frames per second enabling it to be used as a solution in a broad range of quality control, testing, rework, assembly, inspection and documentation tasks.

The GUI (Graphical User Interface) is a custom designed mouse-controlled interface delivering intuitive and efficient operation and control of the full application suite.

Its unique ability to stay in calibration over the entire zoom range is one of many features that differentiates this system from other digital inspection systems.

Camera control functions (auto/manual focus, exposure, gain, brightness, white balance) ensure ultra-sharp, high contrast imaging.

The omni 's quick response, cable-free interchangeable illumination modules with intensity and quadrant control, ensure shadow-free illumination and glare reduction.

Camera Resolution	HD 1080p; 1920x1080; 60fps; 30x optical / 2x digital
Zoom	5D Lens; 2.5x—122x (24" screen)
Basic Functions	Auto/Manual focus, brightness adjustment, magnification adjustment, snapshot, overview, high contrast mode, height adjustable
Response Time	5ms
Input / Output Modes	HDMI Output ● USB 2.0 port x 4 RJ45 Ethernet network connector General purpose IO port x 3 ● DC 24v power jack
Monitor Format	HD ready or Full HD 16:9 *(recommended) - monitor not included*
Power Supply	100/240v; 50/60Hz; 24w power consumption
Dimensions	216mm X 125mm X 136mm (LWH)
Weight	1.75kg
Temperature	Storage: -10C to 60C Operating: 5C to 40C

Magnification*

Lens Diopter (mm)	Max Height (mm)	Min Height (mm)	Min Mag*	Max Mag* Optical/Digital	FOV Min Mag (mm)		FOV Max Mag (mm)		Max & Min Depth of Field	
5	200	170	2.5	62/122	X: 231	Y: 136	X: 8/4	Y: 5/2	78	.50
10	100	85	4	121/237	X: 60	Y: 50	X: 5/2	Y: 3/1	57	.20

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

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