omni core

DIGITAL IMAGING SYSTEM

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

Modular and customizable applications for all industries!

omni core DIGITAL IMAGING SYSTEM

UNITRON®

Built-in, On-board Software With Intuitive Camera Controls!

Image Overview

Zoom

Return Dial

Ring Light Intensity

White Balance

Image Brightness

Image Capture

Manual / Auto Focus

Power

Removable USB Image Capture

Save & Recall Images Internally

Transfer Images To PC Via USB

Intuitive Graphical User Interface

No PC Required

Optional Apps Suite

Measurement & Graticule

Focus Stacking

Comparator Overlay

Comparator Side By Side

DXF Import

Automatic Measurement

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
Optional Apps	Measurement & Graticule; Image Stacking; Comparator Overlay; Comparator Side By Side; DXF Import; Automatic Measurement
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 / Weight	216mm X 125mm X 136mm (LWH) / 1.75kg
Temperature	Storage: -10C to 60C Operating: 5C to 40C

Key Features

UNITRON's omni core Digital Imaging System is an integrated full HD (1080p) digital microscope and measurement systems that operates without a PC. The modular design and apps suite allows for a customizable platform that incorporates a highly configurable 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, DXF import, and automatic measurement with on-screen pass/fail result.

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.

CAT# 14860-CORE

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

Live x8.5

0.0355"   0.0355"

OUTICABLES   OUTICABLES

CE RoHS   ISO 9001 • 14001