



- 2D Measurement & Annotation
- Focus Stacking
- Image Overlay Comparator
- Lens Distortion Correction
- Calibration Tracking
- On Screen Reticule Graticule
- Side by Side Image Comparison
- Email

Intuitive Camera Control Buttons and Dial.



- User Privileges
- Networking
- Intuitive Graphical User Interface
- No PC required
- Removable USB Image Capture
- Transfer Images to PC via USB
- Save and Recall Images Internally

Omni FI 805-001

The Omni is an integrated full HD (1080p) digital microscope and measurement system that operates without a PC. Omni's custom platform 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 reticule/graticule and lens distortion correction.

The Omni 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 utilised as a solution in a broad range of quality control, testing, rework, assembly, inspection and documentation tasks.

The Omni 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 differentiate the Omni from other digital inspection systems.

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

Omni's quick release cable free interchangeable illumination modules with intensity and quadrant control ensure shadow free illumination and glare reduction

Magnification*

Lens (Diopetre) (mm)	Max Height (mm)	Min Height	Minimum Magnification*	Maximum Magnification* Optical/Digital	Field of view at minimum mag. (mm)	Field of view at maximum mag. (mm) Optical/Digital	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.

Technical Specifications

Zoom Range (with supplied 5D lens)	2.5x – 122x
Camera Resolution	1920 x 1080 Resolution 60 fps 30x Optical, 2x Digital
Monitor Connections	HDMI / DVI
Monitor Requirements	HD Ready or Full HD (recommended)
Input / Output	<ul style="list-style-type: none"> · HDMI Output · USB 2.0 Port x 4 · Mini USB Port · RJ45 Ethernet Connector (for networking) · General Purpose IO Port x 3 · DC Power Jack (24V)
Image Capture	<ul style="list-style-type: none"> · Internal Image Storage · Removable USB Image Storage · USB On The Go (PC Connectivity)
Power	24W
Dimensions	216mm x 125mm x 136mm
Weight	1.75Kg
Operating Temperature	Storage: -10C to +60C Operating: +5C to 40C

Package Contents

- Omni
- Quadrant Controllable Ring Light
- Lens 5x
- Mouse & Mat
- Keyboard
- Power Supply
- HDMI to HDMI Cable
- Mini USB Cable
- USB Memory Stick (8gb)
- Grounding Cable
- 2 x Arm Brackets (for stand mounting)
- Arm Receiver
- User Manual
- Cleaning Cloth