

# INSPEX II

DIGITAL IMAGING SYSTEM



SIMPLY POWERFUL

Ergonomic, fully integrated standalone system designed for all industries!

## Intuitive Software Interface Simplifies Operation & Controls



AshCal™ Technology



On Screen Preset Buttons



Set User Privileges



Customized Overlays



One-Click Auto Focus



Image Stamping

## Key Features

The new INSPEX II Digital Imaging System is an ergonomic, fully integrated full HD (1080p) digital microscope and measurement system that operates without a PC.

The GUI (Graphical User Interface) provides intuitive and efficient operation and control of the INSPEX II's full application suite with only a mouse (included) and monitor (not included).

The INSPEX II'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 across many industries.

**INCREASED PRODUCTIVITY:** The intuitive software interface simplifies operation and controls increasing productivity and efficiency. AshCal™ calibration technology tracks and adjusts to zoom changes — no need for time-consuming zoom change re-calibrations. With the on-screen or optional keypad preset buttons, users have quick access to pre-configured, part-specific system settings.

**QUALITY ASSURANCE:** User privileges offer control of system-related operations to ensure standardized inspection. Rapidly check parts against customized overlays with tolerance limits.

**PRACTICAL FUNCTIONALITY:** Simple, one click Auto Focus with on-screen indicator makes image capture a breeze. Image stamping with time, date, user and magnification level for traceability throughout your inspection process. Other features include on-screen pre-set mode, 2-D line measurement, and on-screen overlays.

The INSPEX II's cable-free interchangeable illumination ensures shadow-free illumination, glare reduction and can be directly controlled via the on-board software.

### CAT# 14790

INSPEX II shown on CAT # 14835 track stand (track stand and monitor are not included)



## Specifications

Camera Resolution	HD 1080p; 1920x1080; 60fps
Zoom	5D Lens (included); 2.5x—122x (24" screen)
Basic Functions	Auto/Manual focus, brightness adjustment, magnification adjustment, snapshot, overview, high contrast mode, height adjustable
Features	AshCal™ calibration and tracking throughout zoom range, on-screen pre-set mode, 2-D line measurement, on-screen overlays, auto-focus, image capture and user access controls
Response Time	5ms
Input / Output Modes	HDMI Output • USB 2.0 port x 4 • Mini USB General purpose IO port x 3 • DC 24v power jack
Storage	16GB internal storage; removable USB image storage
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

## Magnification\*

Lens Diopter (mm)	Working Distance (mm)	Min. & Max. Optical Mag.*	Min. Optical FOV (mm)	Max. Optical FOV (mm)	DOF* at Min. / Max. Zoom (mm)	Max. Mag. Digital	FOV Digital
5	190	2.5 / 61.3	231 x 136	8.654 x 4.875	78 / 0.5	133.1	3.99 x 2.239
10	100	10.2 / 118.9	60 x 50	4.462 x 2.514	57 / 0.2	256.4	2.047 x 1.149
1X Plan	72	4.3 / 122	71 x 71	3.992 x 2.24	40 / 0.2	266.6	1.992 x 1.118
25	35.1	175 / 305.5	3.09 x 1.73	1.736 x 0.978	0.25 / 0.01	662.4	0.801 x 0.450

\*Specifications obtained using a 24" monitor

\*Depth of field (DOF) measured with optimal image settings



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