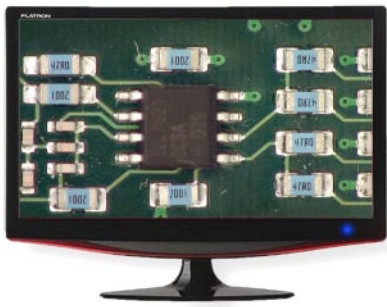
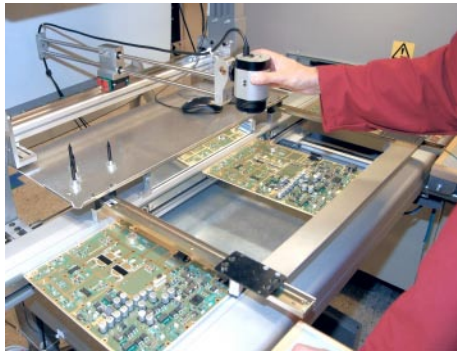


Connect the W10x-HD camera to a Full High Definition monitor and take advantage of the astonishing resolution and excellent image colour and contrast in your inspection work.



Together with any of Optilias Articulated Boom or XY-stands, the system offers full control over large working area or when the inspected object needs to be tilted into different angles and levels.



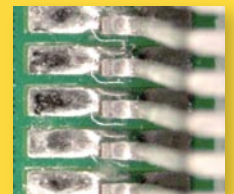
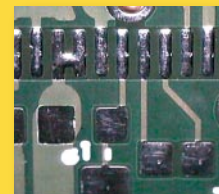
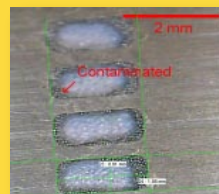
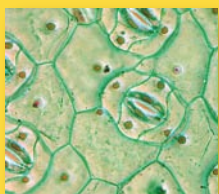
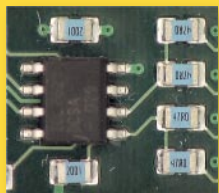
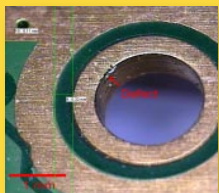
W10x-HD significantly reduces the time spent on inspecting objects compared to other optical visual systems.

# High Definition Inspection Camera

Optilia W10x-HD is a professional inspection camera with 10x optical zoom, large working distance, quick autofocus and laser pointer for reliable, ergonomic and fast Visual Inspection work.



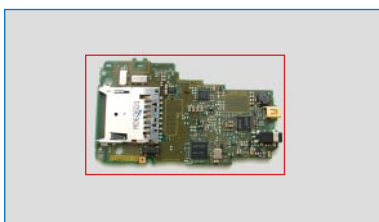
## High Quality, Flexible Optical Inspection Systems



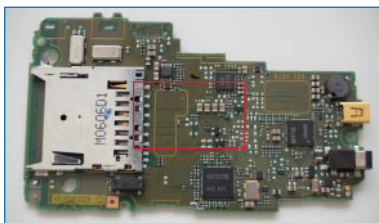


W10x-HD provides relief to the user's eyes, neck and shoulders. By sitting comfortably and watching the monitor, the inspection task is no longer tiresome. Traditional microscopes may offer excellent magnified images but puts extraordinary strain on eyes and neck.

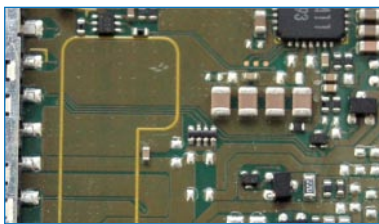
The built-in laser pointer assists in finding the area of interest even in high magnification mode. To further simplify operation, the 10x zoom can be controlled directly from the camera or by a foot pedal.



**3x** Magnification



**15x** Magnification



**30x** Magnification

In most cases, the system's 3-30x on-screen magnification (24" monitor) is comparable to common ocular microscopes and can therefore directly replace those. If further magnification is needed, close-up lenses can be added to magnify up to 100x.



Parameter	HD Video Inspection	Stereo Microscope
<b>Functions</b>		
Ergonomy	Excellent	Poor
Large Working Distance	Excellent	Good
Large Field of View	Excellent	Good
Flexibility	Excellent	Good
Depth of View	Good	Excellent
<b>Applications</b>		
Visual Inspection	Excellent	Excellent
Video/Image recording	Excellent	Optional
Documentation	Excellent	Optional
Repair/Rework	Good	Good
Assembly work	Excellent	Good

*Comparison of HD Video and Stereo Microscope Inspection.*

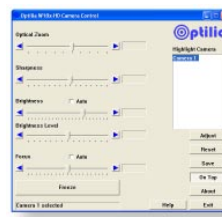


Image attributes, such as brightness, contrast, focus, iris, image sharpness, colour and other parameters are automatically set but can be controlled manually by the user through the Software or from the joystick based multi-function Control Unit without need to a PC.

The system offers great flexibility to users with different inspection and monitoring needs. Apart from transferring excellent details from the object to the High-Definition monitor, it grants true ease of use and minimal interaction with controls and settings.



W10x-HD is made of high quality components, stainless steel and anodized aluminum parts. The instrument is designed according to the requirements of electronics manufacturers regarding excellent image quality, flexibility, time and cost effectiveness.

The solid aluminium casing makes the system suitable for deployment in factories, workshops and production facilities as well as in laboratories.

## Included items when you order W10x-HD Inspection kit, OP-009 002:

- ✓ Wide angle Full HD inspection camera with 10x zoom, auto focus and laser pointer
- ✓ Boom Stand, ESD-protected
- ✓ Camera control PC software
- ✓ USB to RS-232 adapter
- ✓ Power supply

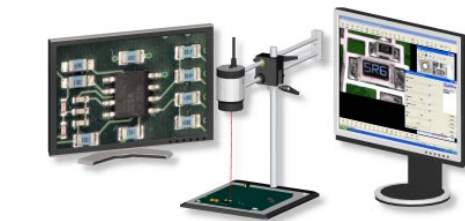


## W10x-HD can be configured with following optional accessories:

### Stands and Mounts



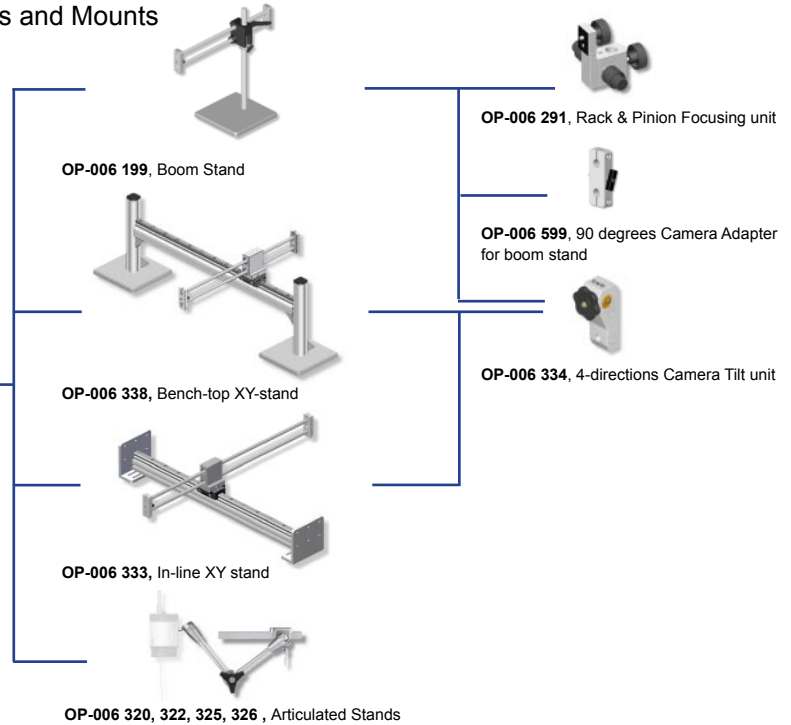
**Application:** Post production Inspection, Quality control, Assembly work, Repair and Rework



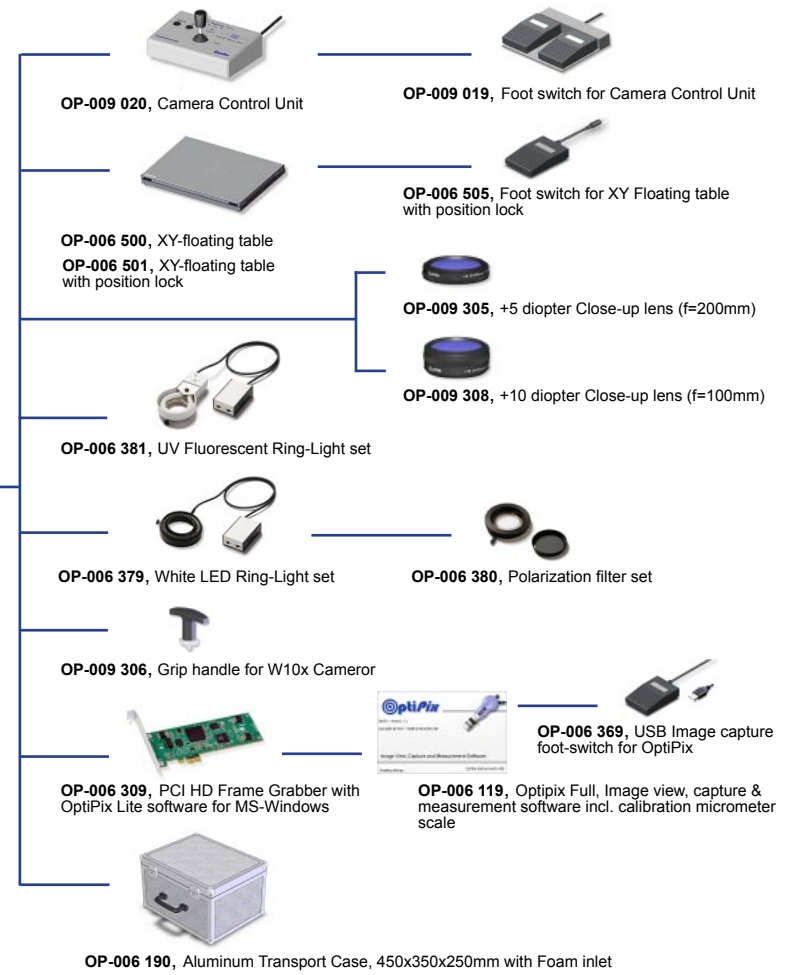
**Application:** Digital documentation, Measurement, Quality control, R&D, Repair and Rework

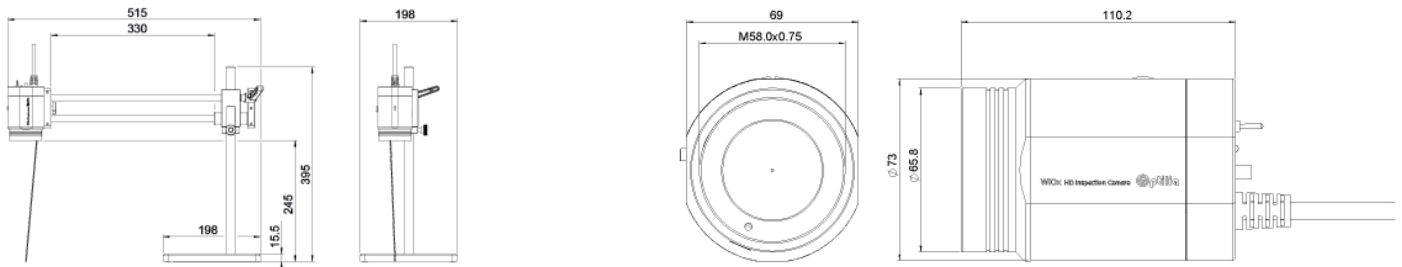


**Application:** In-line Visual Inspection of assembled PCBs after Pick & Place and/or after AOI.



### Other accessories





## Specifications:

- Image Sensor ● 1/3" CMOS, ~ 2.0M pixels
- Signal Systems ● High Definition 1080i/59.94 (interlace), 1080i/50 (interlace); 720p/59.94 (progressive), 720p/50 (progressive); PAL, NTSC

- Optics ● Wide angle 10x optical zoom with auto or manual focus, F1.8 to F26

- Working Distance (w/o Close-up) ● ~ 190 - 250 mm
- Working Distance with +5 Close-up ● ~ 90 - 103 mm
- Working Distance with +10 Close-up ● ~ 54 - 61 mm

- Field of View at 1x zoom ● ~ 230 x 130 mm (~ 2x magnification on 22" monitor)
- Field of View at 5x zoom ● ~ 115 x 65 mm (~ 5x magnification on 22" monitor)
- Field of View at 10x zoom ● ~ 23 x 13 mm (~ 20x magnification on 22" monitor)
- Field of View with +5 Close-up (25x zoom) ● ~ 10 x 5.5 mm (~ 50x magnification on 22" monitor)
- Field of View with +10 Close-up (35x zoom) ● ~ 6.5 x 3.7 mm (~ 70x magnification on 22" monitor)

- Camera Control ● External Control Unit or PC Control Software via serial COM port
- Basic Adjustments ● Optical Zoom, Iris control, Brightness, Sharpness, Focus, White balance, NIR-mode, Gamma, Setup Save/Recal, Freeze picture, Negative picture

- Laser pointer ● Red LED laser, 0,5mW output power, Laser Class 2
- Inputs/outputs ● DC in (5-pin MiniDin), Serial RS-232 (DB9-F), HD Component Y/Pb/Pr Video out (RCA), PAL/NTSC Video out (RCA)

- Storage Environment ● -20° – +60° C, 5 - 90% RH, non-condensing
- Operating Environment ● 0° – +45° C, 5- 90% RH, non-condensing
- Power Requirement ● 12.0 VDC, 4.8 W max
- Size, Weight ●  $\phi$ 75x117 mm (DxL), 850 gr. Max.



### Optilia Instruments AB

Djupdalsvägen 22  
S-192 51, Sollentuna  
Sweden  
Phone: +46 (0)8 35 33 60  
Fax: +46 (0)8 35 33 63  
E-mail: [Info@optilia.eu](mailto:Info@optilia.eu)  
Web: [www.optilia.eu](http://www.optilia.eu)

Retailer:



### Ordering information:

Item	Article Nr.
W10x-HD, Full HD Inspection Camera system	OP-009 002
Close-up lens, +5 dioptre	OP-006 305
Close-up lens, +10 dioptre	OP-006 308
Camera Control Unit	OP-009 020
Foot switch for Camera Control Unit	OP-009 019
In-line XY stand	OP-006 333
Bench-top XY stand, large area access	OP-006 338
Articulated Stand, Industrial Grade	OP-006 326
Articulated Stand, Stainless Steel Grade	OP-006 322
XY-floating board	OP-006 500
XY-floating board with Electromagnetic position lock	OP-006 501
Foot switch (self-locking) for XY Floating Table	OP-006 505
Focusing unit, Coarse/Fine movement	OP-006 291
Grip handle for W10x Cameror	OP-009 306
4-directions Camera Tilt unit	OP-006 334
90 degrees Camera Adapter for boom stand	OP-006 599
PCI-e HD Frame Grabber with view/capture software	OP-006 309
OptiPix, Image view/capture & measurement software	OP-006 119
USB Image capture foot-switch for OptiPix	OP-006 369

