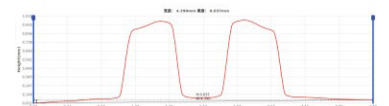
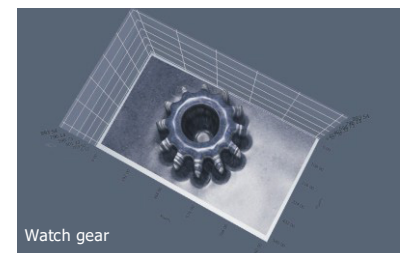
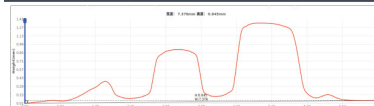
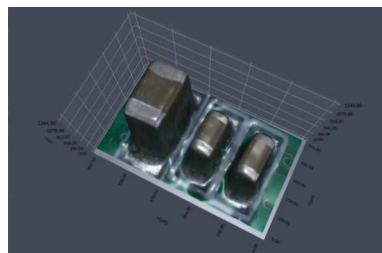
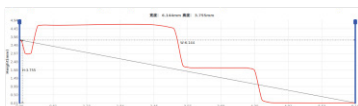
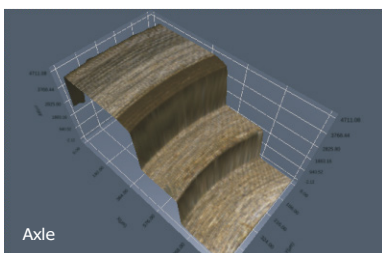
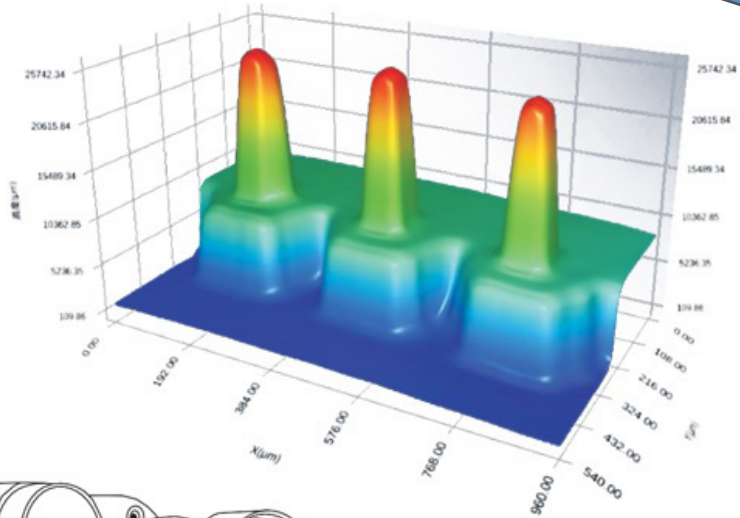
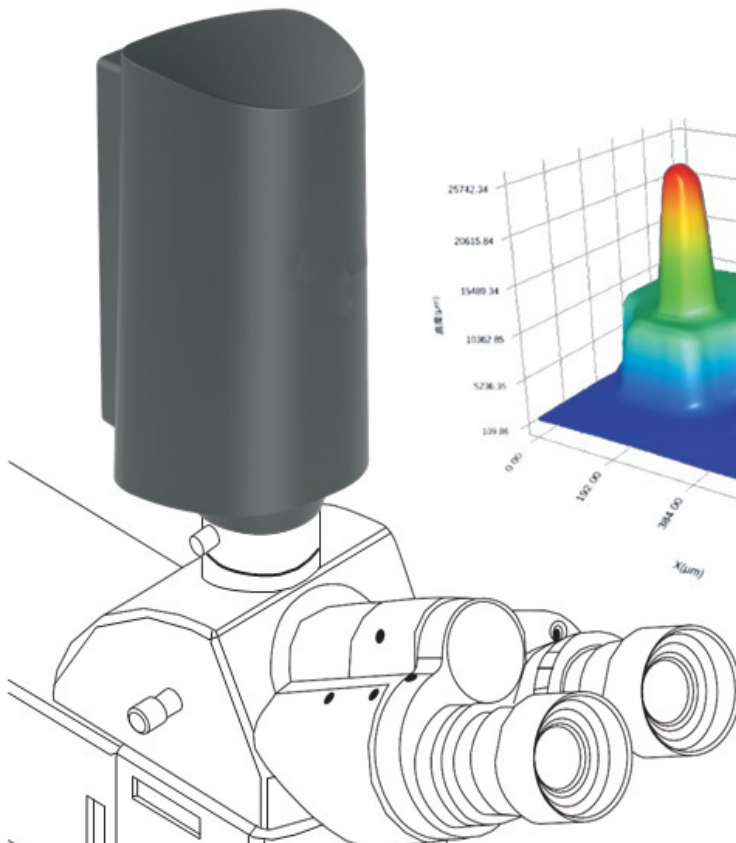


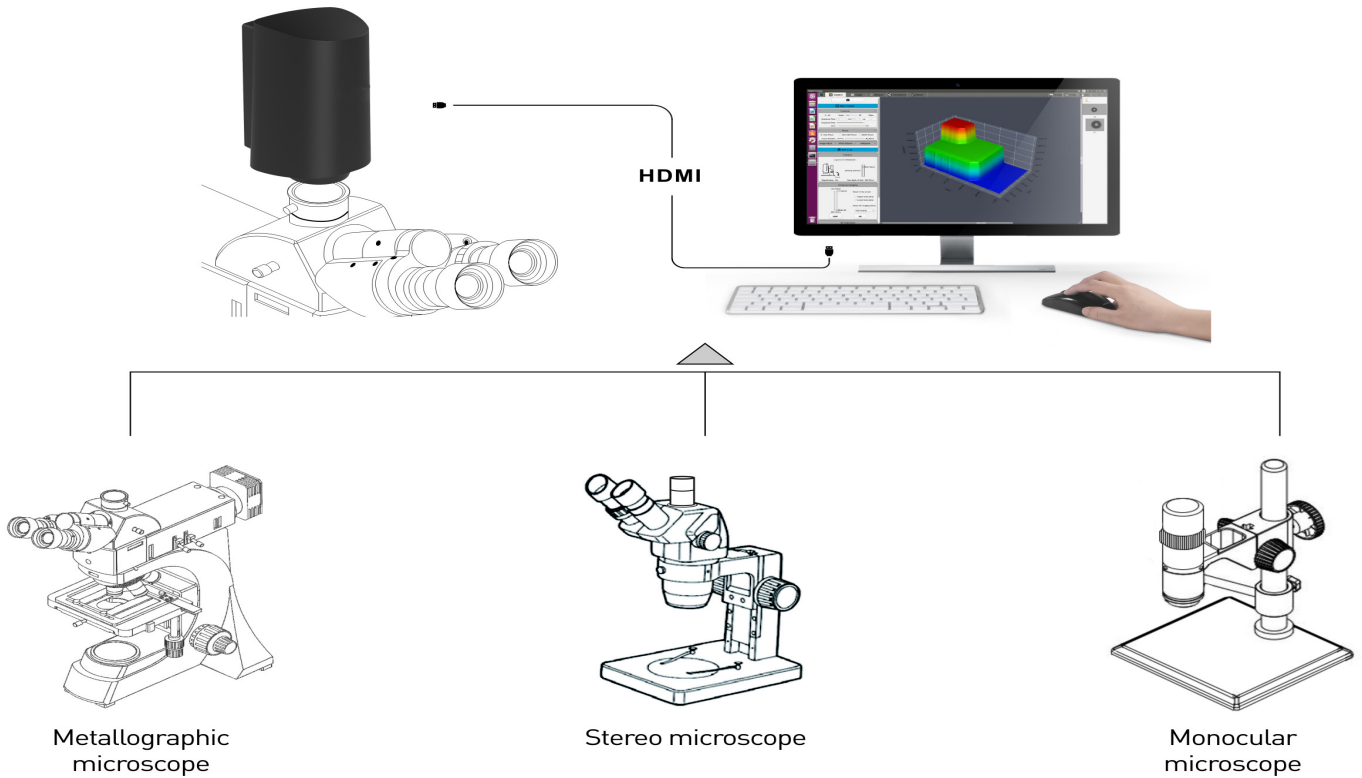
HDMI02DPX-3D

- ▶ On screen 3D/2D measurement
- ▶ Super accurate measurements
- ▶ Stand-alone
- ▶ Versatile
- ▶ User friendly



HDMI02DPX-3D

The HDMI02DPX-3D, is a smart camera with built-in software and a Z-stage that allows the user to capture 3D and 2D images and measure them with an accuracy of 2 μ just with the click of the mouse. With the HDMI02DPX-3D it is possible to turn most old or new microscopes into a modern and advanced 3D microscope. The HDMI02DPX can be installed on metallographic, stereo, monocular, and other reflective microscopes.



High quality, cost effective and flexible

The HDMI02DPX-3D can be directly used on any reflective microscope with a trinocular head without any additional modification, stereo microscope, Metallographic microscope, or a Monocular microscope.

User-friendly Camera

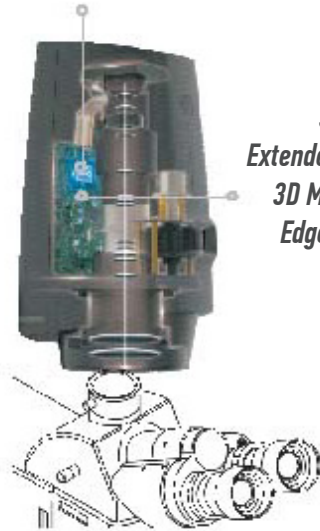
Plug and play – the HDMI interface provides high speed and ease of installation on any monitor with HDMI input. No need for computer, because the HDMI02DPX -3D has a built-in software. The built-in software makes advanced analysis easy with just a click of the mouse.



Typical applications: ✓ Material science ✓ Quality control ✓ Bright Field ✓
Semiconductor inspection

Why choose HDMI02DPX-3D

*Built-in high performance
Computer*



*Software
Extended depth of field
3D Measurements
Edge recognition*

- **User-friendly:** innovative solution with no computer required, perform advanced microscopy tasks directly on the monitored with the click of the mouse.

- **Accuracy measurement:** achieve 2um measuring accuracy for 2D&3D under 10x objective lens.

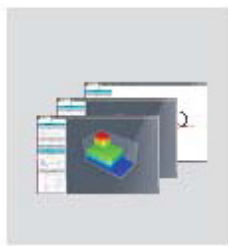
- **2D automatic measurement function,** the HDMI02DPX-3D enables the user to finish a batch measuring project as quickly as possible.

- **Report creation function,** create test reports with images and results for 2D and 3D measurements.

Combines a microscope camera, software with advanced features, high precision z stage, and a high-performance computer into one unit



Microscope camera



Microscope software



Z-stage

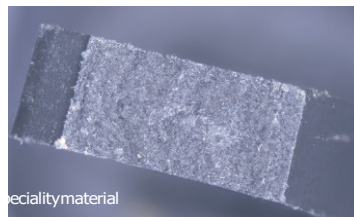


*high performance
Computer*

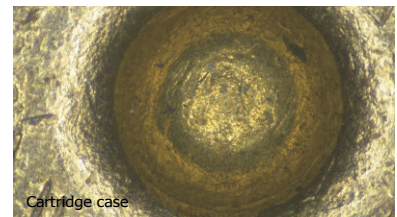
Upgrade the microscope's observation and analysis capabilities with the HDMI02DPX-3D



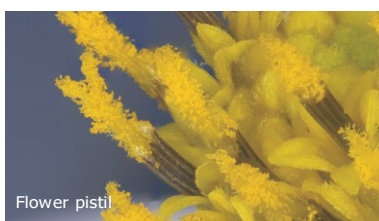
Copper bar



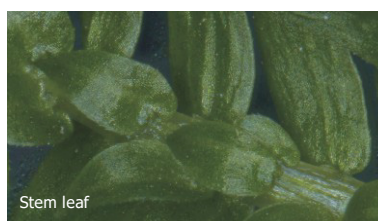
speciality material



Cartridge case



Flower pistil



Stem leaf



Insect

Features

HDMI02DPX-3D Technical Specifications

HDMI02DPX-3D Technical Specifications		
Camera features	Sensor	Sony 1/2"color CMOS
	Resolution	1920×1080
	Pixel size	3.75μm×3.75μm
	Shutter	Rolling
	scanning method	Progressive scanning
	Frame rate	60fps(Normal),30fps(WDR)
	Gain	Automatic / Manual
	Exposure time	Automatic: 0.1ms-16.6ms, manual: 0.0001s-1s
	White balance	Automatic/Manual/Area
	Image storage	TIFF/JPEG
	Video format	AVI/MP4(1080P)
Advanced Features	*WDR	Support
	*Real-time EDF	Support
	Edge enhancement	Support
	Flat field correction	Support
	Effect mode	Normal/Negative/Relief/Grayscale
3D Measurement	3D display	Pseudo-color/real scene display, grid lines, 360°rotation
	3D histogram	Support
	3D profile measurement	Height difference, curvature, area, roughness
	3D surface measurement	Step height, volume, surface roughness
	Z range (depth of field)	23mm
	3D measurement accuracy (10X)	±2μm
	3D repeatability (10X)	±1μm
	3D measurement report	Support, editable template
2D measurement	2D manual measurement	Point-point, point-line, line-line,Parallel, perpendicular, polygon, circle, arc, concentric circle, circle-circle, angle
	2D measurement accuracy (10X)	±2μm
	2D repeatability (10X)	±2μm
	2D measurement report	Support
Input	Mouse input	USB mouse
	Keyboard input	USB keyboard
Interface	Optics	C-Mount
	Video	HDMI 2.0
	Internet connection	Ethernet
	USB	3 x USB2.0, 1 x USB3.0
Others	Storage capacity	Built-in 32G Emmc
	Appearance size (WxHxD)	87mm*181mm*103mm
	Working environment	5°C-40°C (temperature), 45%-85% (humidity)
	Weight	2.5kg
	Power	12V 8A

*EDF = Extended Depth-of-Field, WDR = Wide Dynamic Range