

DeltaPix DPX M200MF

Digital 3D Microscope



- 20X Optical Zoom
- 2D Measurement
- High-speed live video
- Large field of view
- Affordable

- Surface Texture ISO 25178 / ISO 4287
- Super depth of field imaging
- 3D topography & Measurement
- 8MPixel Camera
- SDM technology for Extreme 3D speed

DPX M200MF

High Image Quality

The DPX M200MF digital microscope with motorized focus provides high-resolution images at an affordable price with all necessary functions for precision measurements, 3D analysis, image capture, documentation, and traceable report generation as required by industrial applications. This microscope system is a unique combination of high-quality optics, a high-quality track-stand, and a DeltaPix scientific USB3 camera, which makes this system a unique and indispensable tool. The DPX M200MF includes “SDM” technology to provide a super-fast extended depth of field and 3D topography.

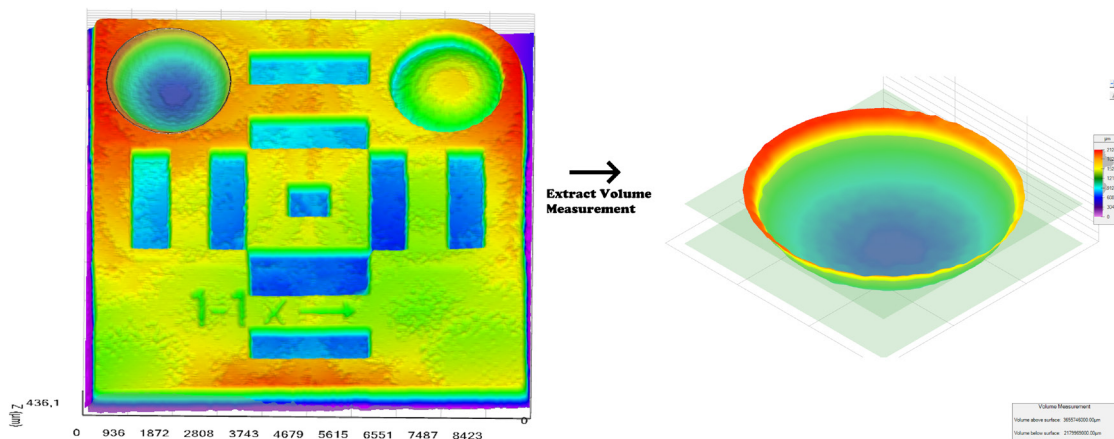
Made for Ergonomic Use

The DPX M200MF provides relief to eyes, neck and shoulders. The unique ergonomic design with flexible working distance between 174mm-56mm allows operators to sit comfortably in a good working posture and carry out their optical measurement tasks efficiently.



High quality, cost effective and flexible

The DPX M200MF microscope system is designed as a modular system to make it flexible and easily customizable to fit most applications and budgets—probably the most affordable 3D-capable digital microscope on the market.



Why choose DPX M200MF

The DPX M200MF system is the most affordable 3D digital microscope, offering advanced surface analysis and measurement capabilities. 2D parameters like angle, distance, and area can be easily visualized and measured in 3D with precision.

Multiple light source options, combined with high-resolution, long-working-distance optics, ensure effortless visualization of intricate surface details. Unlike traditional 3D systems such as confocal and scanning microscopes, the DeltaPix DPX M200MF system captures and displays all details with clarity in color with high speed.

2D Measurement tools:

DeltaPix Insight software provides a comprehensive suite of powerful measurement tools, available for both manual operation and automated measurement using advanced edge detection. This enhances accuracy while making the process faster and more efficient.

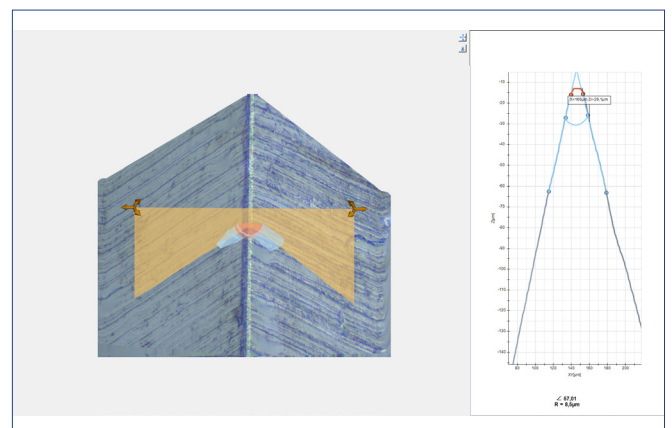
Measurement results and actual dimensions can be saved directly on captured images or exported to Excel, CSV, or PDF files. Use the included templates for seamless reporting, or create custom templates tailored to specific needs. Additionally, measurements from multiple specimens can be consolidated into a single CSV file for streamlined statistical analysis.

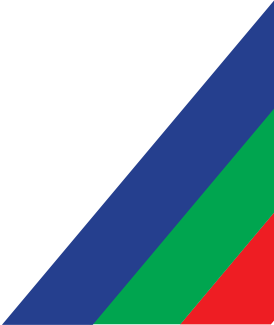
- Ruler
- Ellipse
- Polygon
- Freehand measurement
- Rectangle
- Protractor
- Circle
- Circle center distance
- Point to line distance
- Angle

3D Topography

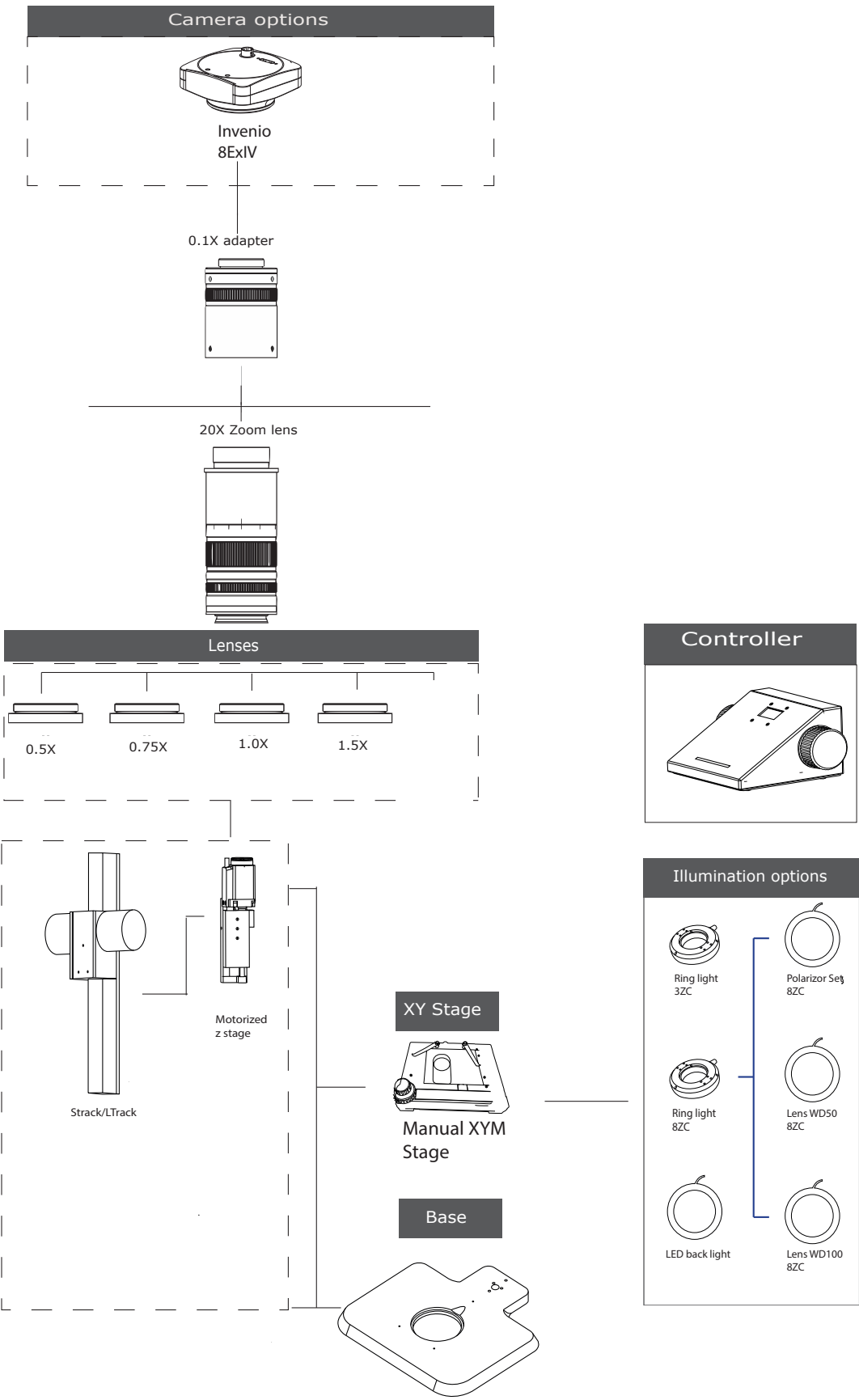
Extend the visualization and measurement from 2D to 3D.

The DPX M200MF system configured with motorized focus, controller, and 3D Topography module to the software, will provide 3D Topography, to display a 3D model of the specimen under observation. Additionally, this feature allows the user to perform 3D measurements and automated extended focus. 3D tools: Height measurements (delta Z), angle and radius.





Microscope diagram



Options



Basic Ring Light



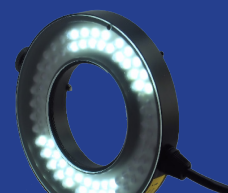
Manual XY stage



Spot Light



Back light



Ring light 8Zone

Specifications

DPX M200MF zoom Specifications with lens

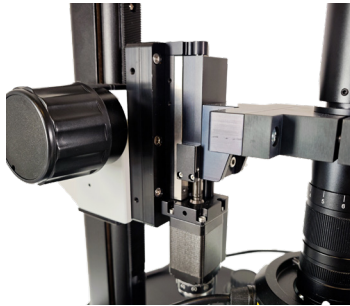
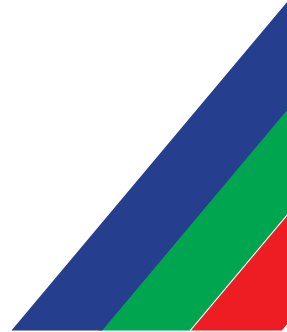
Camera model	Function	0.5X	1X	0.5 HD	1X HD	2X DH
	NA	0.003-0.06	0.007-0.012	0.007-0.012	0.014-0.024	0.028-0.058
	Resolution(μ m)	93 μ m -46.6 μ m	40 μ m-23.3 μ m	40 μ m-23.3 μ m	20 μ m - 11.5 μ m	10 μ m -4.8 μ m
	Depth of field (μ m)	11400 μ m-3888 μ m	5714 μ m-1944 μ m	5714 μ m-1944 μ m	1428 μ m- 486 μ m	357 μ m- 83 μ m
	Working Distance	174mm	86mm	194.5mm	92mm	39.8mm

Invenio 8ExIV	Magnification	23.5X-471X	47x - 942x	23.5X-471X	47x - 942x	94x-1886x
	Field of View	39mm-39mm 1.9mm-1.9mm	19.4mm x 19.4 mm 0.97mm x 0.97mm	39mm-39mm 1.9mm-1.9m	19.4mm x 19.4 mm 0.97mm x 0.97mm	9.72mm-9.72mm 0.48mm x 0.48mm

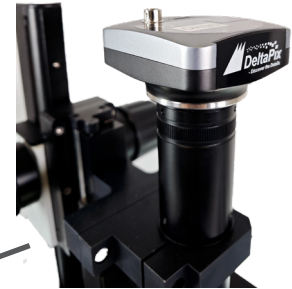
Note:

1. Maximum magnification and minimum FOV are calculated based on a 28" monitor with 1920x1080 pixels, at 100% zoom at maximum still image camera resolution. 2. *NA values are an estimation based on observation and test. NA varies with zoom settings

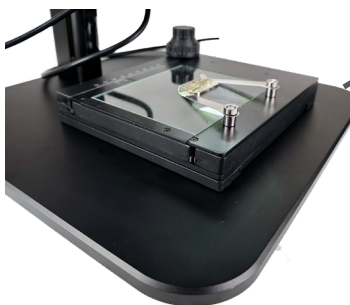
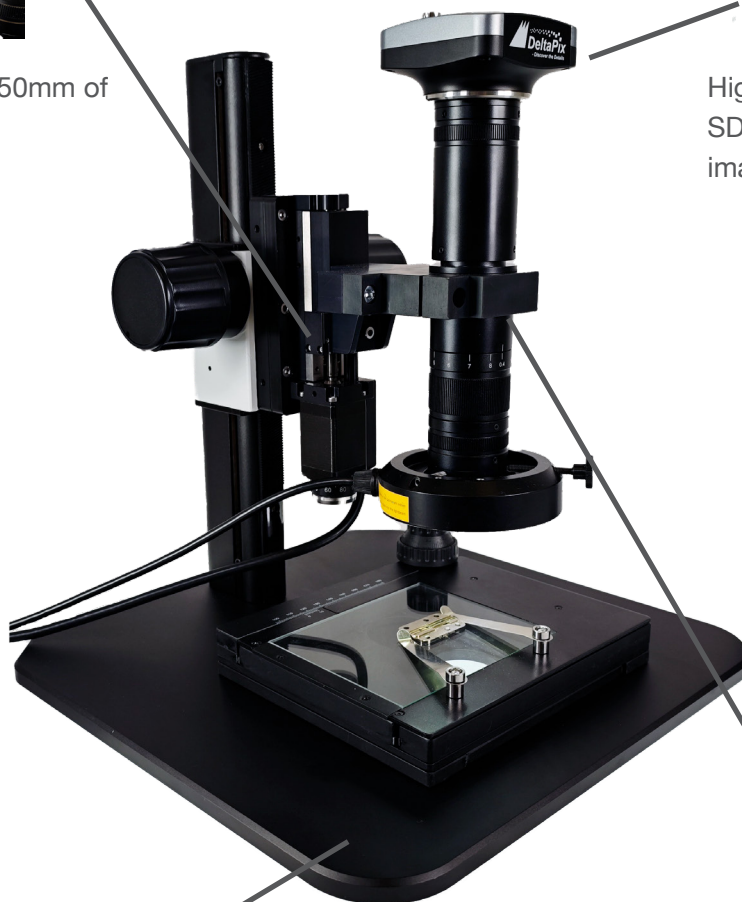
Microscope Details



Motorized focus with 50mm of travel range



High-resolution camera with for SDM technology for super-fast imaging and 3D topography



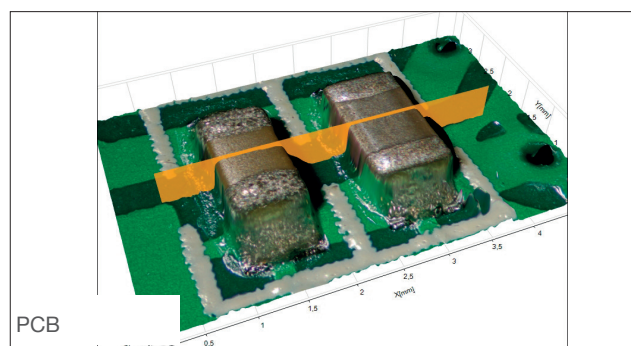
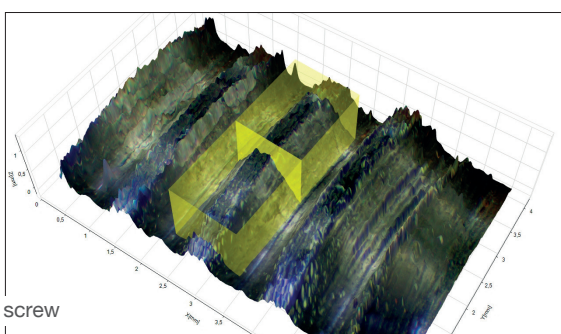
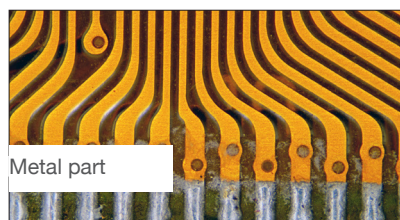
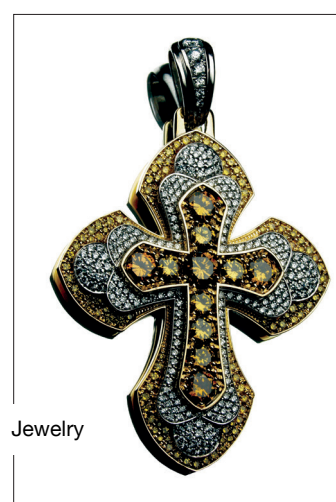
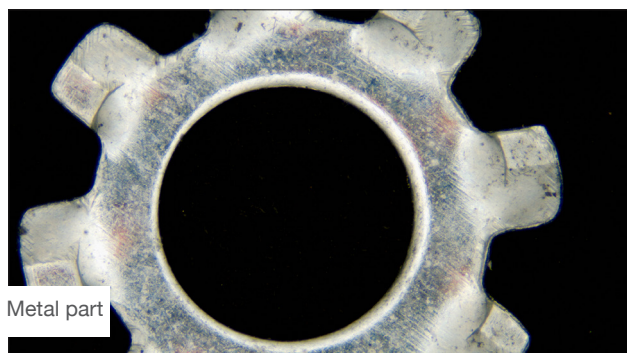
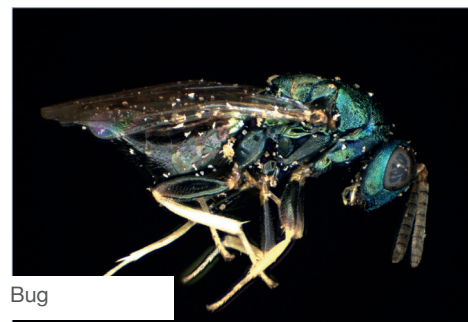
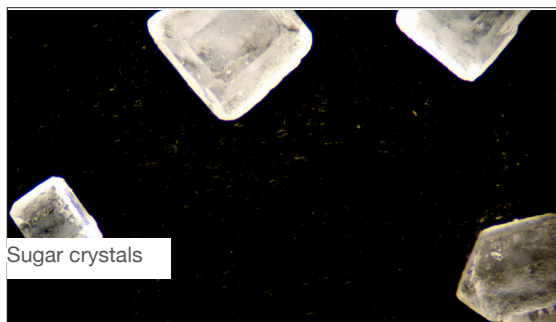
Manual XY stage and a solid aluminum base with the option to include anti-vibration feet.



High quality 20X zoom lens, providing great quality images and flexibility, Can also be used with infinity-corrected objective lens.

Gallery

Various images from DeltaPix image library.



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