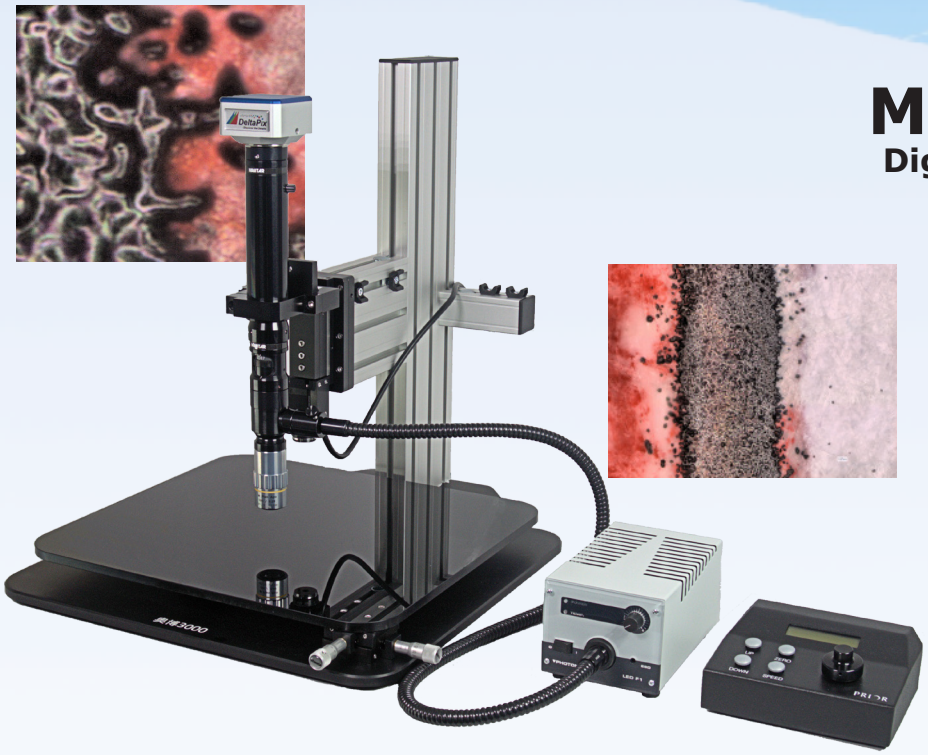
DeltaPix
- Discover the Details

Modus AB 3000

Digital motorized microscope system



Features:

- Manual XY and motorized Z stages. Object size up to 250x300mm (larger size available on request)
- Ideal for examination of "Questioned documents" (forensic use), Wafers and other large material surfaces.
- Scanning of large areas in high resolution for use in "Virtuel microscopy".
- XY position can be manual adjusted with high precision.
- Automatic extended focus and exposure
- Motorized fine focus with level read out
- Full measurement on screen, automatic report generation, pdf, Excel.

Complete system for examination of questioned documens or other large surfaces at high magnification.

For detailed examination of questioned documents and other material surfaces.
The Modus AB-3000 is designed for applications in which there is a need for examining large areas of documents, material surfaces and likewise. The system is especially suited for examination of questioned documents in Forensic applications.

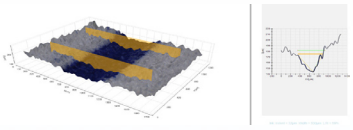
Fine adjustment of XY-position
The high magnification of the AB-3000 system requires smooth and precise adjustment of the XY-position. For this purpose the system has been equipped with a large smooth base on which the document can easily be moved around with coarse precision. When the area of interest is positioned under the microscope, the document can then be positioned with high precision by means of two large convenient positioned XY-adjustment knobs.

Solid mechanics
In order to keep vibrations from affecting the image quality and visible details, the system is made from extreme solid mechanics, keeping the deflection less than 1 micron.

High Quality 6MPixel camera
The system includes a high quality DeltaPix USB 3.0 camera with the newest Sony ExMor sensor technology. This ensures

High resolution optics with zoom capability.
As standard, the system is supplied with a mono zoom system with a base magnification range of 0.7-4.5x. To pick up the micro details the system has attached a High Resolution Infinity Corrected Microscope objective. With a 10x (20 time as option) objective and a 2x adapter, the system has a magnification range of approximately 400-2400x (with an Invenio 5DII camera and a 24' monitor)

3D Topography/Measurement
Display the topography of the specimen under observation. Height measurements and profiles across any section of the material can be displayed and documented. This can be very useful for measuring and displaying indentation in paper, height of ink, print and much more.



High Power coax light
The system is supplied with a high power
LED fiber light source (equals a 150W halogen source) with extra wide diameter, in order to capture shadow free images. Due to the LED technology, change of lambs is not an issue.

<u>Specifications in standard version</u>
(other specifications available)

Dimensions without controllers:
540 x 445 x 525 mm (L x W x H)

XY manual fine adjustment:25x25mm

Motorized *Z* travel range: 50mm

- Magnification:
(100 % pixel to pixel camera to monitor, no digital interpolated zoom, max optical magnification to a 24' 1920x1280 monitor, Invenio 6EIII camera):
10 x Objective: 385 x - 2380 x

Resolution: <1um (with 10x objective)

Minimum system requirement

- PC with Intel i5 (Quad-Core) or better
- 4 GB RAM
- 15 GB free harddisk
- USB 3.0 port
- Windows Xp, Vista, 7, 8/10, 32 bit and 64 bit
- Full HD monitor