



Digital optical measurement system

Features:

- Magnification from 1 to 5000 times depending on which objective is used and the size of the monitor
- Resolves details down to 0,4 µm.
- Motorized versions for automatic capture of extended depth of focus
- very precise measurements on images captured with infinite depth of focus using a telecentric lens
- automatic generating of reports in MS Excel
- Available for cameras with a resolution from 1.3 Mpixel up to 32 Mpixel and with DeltaVu colour (corresponds to a normal colour camera with 60 Mpixel)
- Available in different sizes and with different objectives and motorized board - to be adapted to individual needs

Specifications

including:

- Stand with base (light in base is optional)
- DeltaPix USB Stepper motorcontroller, USB C1, preconfigured (automatic systems)
- DpxView software
- Power supply 100-240V, AC/12V 1A
- All necessary cables
- Adjustable LED ring light or COAX LED light
- Motorised Z-stage for automatic capture with extended focus, automatic focus and z-measurements
- Objective depending on the required size of the field of view

Field of view

100x100µm to 10x12cm (depending on the objective)

Working distance

10mm to 30cm (depending on the objective)

Resolving power (using the Infinity X-32)

Down to 0,5µm at max optical magnification

Minimum Computer Requirements

Pentium 4
1 Gbyte of RAM
5 Gbyte free HD-space
2x USB 2.0 ports
Windows XP or Vista

An user opinion :

Mrs. Beata Basiak, Quality Assurance, Scan Micro A/S (specialised within the fields of Technical Rubber, Miniature Coils and Micro-mechanical assembly)
"The DeltaPix System has made our work much easier. We use it almost every day for:

- quality and claims reporting - efficient and often only possible by using DeltaPix
- validation of new forms which are based on measurements of new items - internal and external - easier with DeltaPix
- measurements of new items - easier with DeltaPix
- measuring new items to adjust production drawings.
- before using DeltaPix some of the items were impossible to measure 100%!"

Are you interested in more information ?

Please do not hesitate to contact us by phone +45 46 76 02 05 or mail deltapix@deltapix.dk.

We are looking forward to hear from you!

www.DeltaPix.dk

A complete digital optical system for high precision measurements, image capture and report generation.

This digital system offers all necessary features for image capture, high precision measurements and traceable report generation. This system is an affordable alternative to a traditional microscope or a profile projector and offers even a lot of new possibilities. The user is able to capture images with extended depth of focus and also to capture images of shiny surfaces or under exposed details using the extended exposure.

The systems include DeltaPix DpxViewPro AZ software which makes capturing images, measurements, filing images and generating reports incredibly easy. As soon as the system has been started a high resolution live image is available on the monitor.

High optical quality

This system matches the same high optical quality as a traditional microscope, but achieves higher optical precision when measuring large objects while using extended depth of focus.

Due to the patented DeltaPix "DeltaVu" technology it is possible to measure large objects with high precision and to produce images with a 32 Mpixel resolution without colour interpolation.

Ease to use and easy to control

The system is pre-calibrated so capturing and measuring can be done immediately after installation of the software. The system can be installed on a standard computer (Windows Vista or XP) and connected through the USB port.

Capturing images with extended focus and extended exposure

Capturing images with extended focus can be made within a few seconds. The user just has to determine the upper and lower focus level (or use the autofocus facility) and choose the number of images to be captured. Afterwards the system automatically captures an extended focus image with full focus depth.

If it is not possible to achieve correct exposure in all areas of the object under observation, due to reflections or very dark and shiny parts the extended exposure function enables the user to capture images at different exposure levels in order to combine these images to form one image with perfect exposure level in all areas.

It is also possible to capture images combining the extended focus with the extended exposure technique. The software system makes it possible automatically to capture the required number of images and to form one image with high resolution, full depth of focus and perfect exposure level. Using a telecentric lens makes it possible to achieve very precise measurements of all focus depths without distortion.



High resolution digital cameras allow digital magnification without loss of details