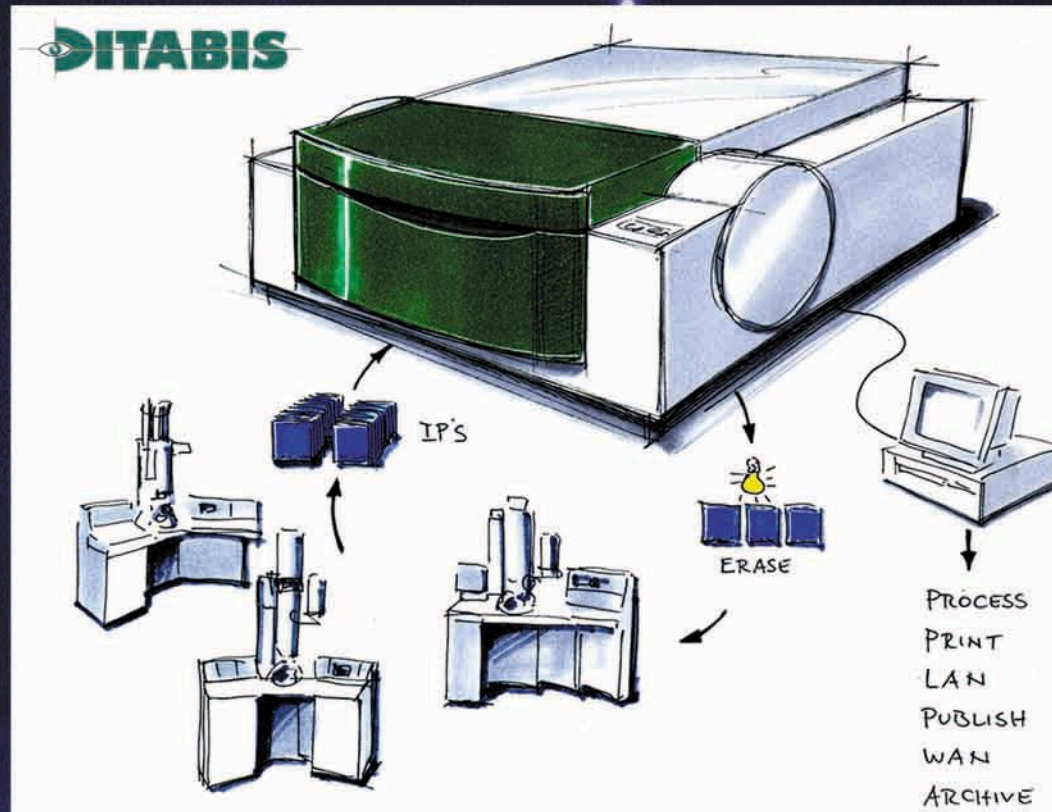


6000 x 5000 Pixels Digital Imaging for TEM

The DITABIS™ Imaging Plate Technology is designed to replace conventional sheet film in the transmission electron microscope. It provides a new level of digital resolution and dynamic range to TEMs by viewing the same wide field of view as film with up to 6000 x 5000 pixels resolution. Having 10 times the sensitivity of film and a six orders of magnitude dynamic range this technology exceeds the performance of any other digital or analog system. Unlike CCD cameras the Imaging Plates can be used with the same routines as conventional film but without the need for wet chemistry. Reusable plates and their suitability to single or multiple instruments make the micron VARIO the most cost effective high-resolution digital TEM solution.

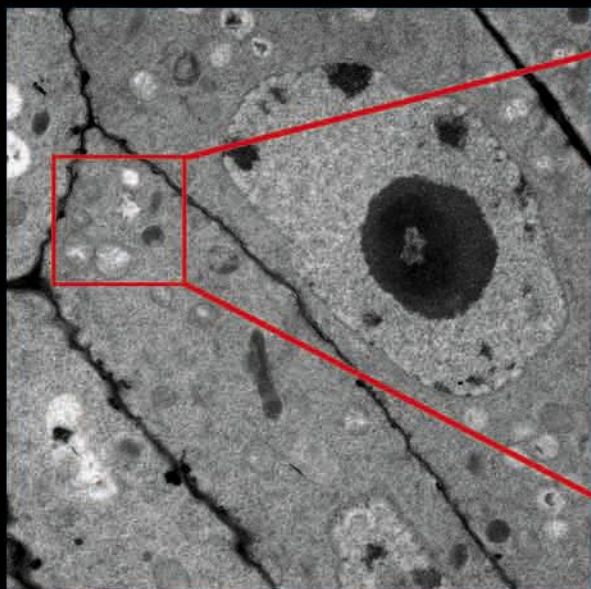


- ✓ Extraordinary image quality
- ✓ Highest sensitivity and dynamic range
- ✓ 6000 x 5000 pixels in traditional film image area
- ✓ Cost effective - reusable plates - serves multiple TEMs
- ✓ Easy to use - direct replacement for film
- ✓ No installation required on the TEM
- ✓ No wet chemistry

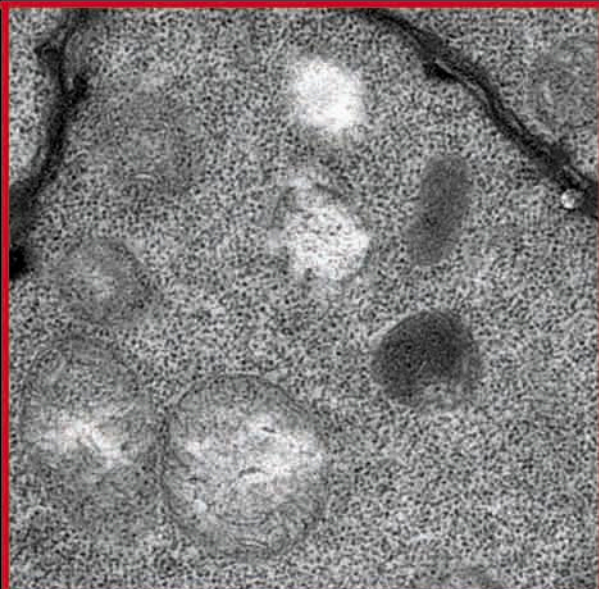
NEW
micron VARIO

Scalable Resolution: Readout Pixel Size 50 μ m - 15 μ m

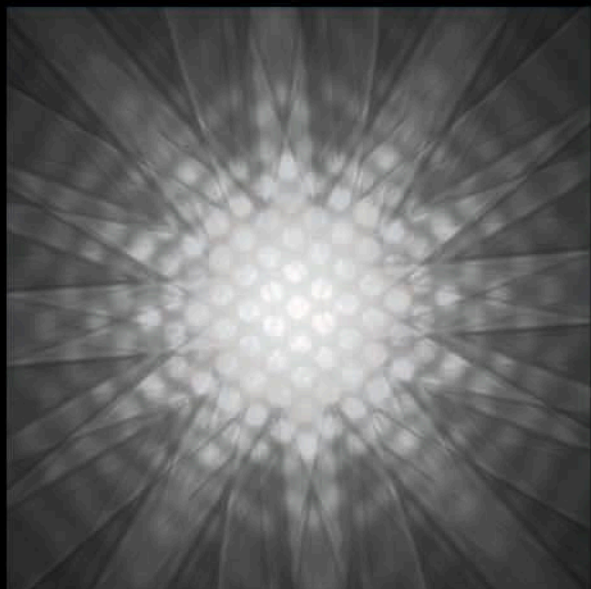
Imaging Plate Technology for Life Science & Material Science



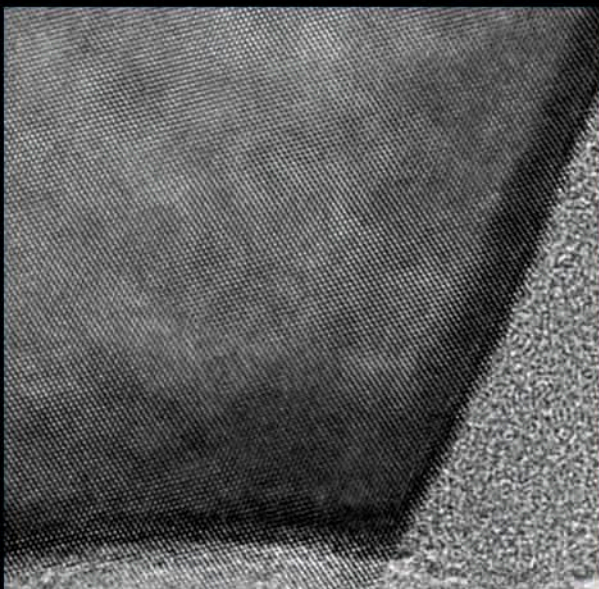
High definition TEM image of a plant cell (3000 x 3000 pixel)



Detail of left image. When zooming in plenty of details become visible.



Convergent Beam Electron Diffraction of thin silicon film. The high contrast range was recorded in one image and has been compressed for printing.



High resolution image of silicon film at 590 000 primary magnification.

System Specifications

micron

Readout Pixels

micron VARIO	from 6000 x 5000 max. at 15.0 μm to 1800 x 1600 max. at 50.0 μm
micron 17.5	5000 x 4500 max. at 17.5 μm
micron 25	3600 x 3200 max. at 25.0 μm

Imaging Plate Size

81 x 100 mm

Effective Area

80 x 90 mm

Readout Time

2 - 3 min / frame

A/D-Conversion

2 channels of 16 bit at different gains,
20 bit combined

Dynamic Range

6 orders of magnitude at one scan

Power

230V - 50 Hz; 120V - 60 Hz, 100W

Dimensions (W/D/H)

675 / 580 / 305 mm

Weight

60 kg

OS Platforms

Easy to use Windows 98/NT/2000/XP

Scanning

Full software control of all parameters,
featuring application specific parameter sets

Data Format

16 / 24 / 32 bit data format with comment
and setting information in header

Image Viewer

Quick preview, zoom and look-up-tables,
data base functions

Image Processing

Various filters and arithmetic functions;
alignment, rotation, threshold

Correction Functions

Background correction

Analyse Functions

Points, lines and areas, 2D-FFT, 3D-Plot,
peak measurement function

Data Conversion

Data export to TIFF, PCX, GIF, JPEG,
change of resolution and dynamic range

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