

WSxM - 3.0 BETA - NEW FEATURES

--Updated Mar 24, 2006--

Data Processing & Representation:

• New imports:

DME
 Quesant
 Burleigh
 NT-MDT
 SPMLab 5.01
 Grayscale TIF files
 SIESTA calculated LDOS files
 Morita Lab
 Oxford Instruments
 Basel University Lollypop

• Improved imports:

Frei Universitat Berlin
 ImageSXM
 di
 RHK
 Omicron
 Molecular Imaging
 LASUAM
 Topometrix
 Park Instruments

• Data Processing improvements & new features:

More powerful and easy to use palette management
 More powerful and user friendly profiles creation and management
 New presentation for the curves with auto scaling
 More powerful and flexible file format for the images
 Recalibrate menu allowing to change X, Y and Z amplitude of your image
 Reading and writing of images in ASCII format
 Automatic scientific notation for out of scale numbers
 Advanced toolbars management
 No to All option when being asked about saving modified images
 Contour plot representation

Gaussian smooth process

Function Generator to create images or perform custom processes

Status bar for maximized dialogs

Size requirements removed from movie creation

Direct links from the About menu to Nanotec web site and WSxM support mail address

New scalebar design

• Processes improved:

1D-FFT for images (in 2D-FFT menu)
 PSD (Power Spectrum Density) process for images and profiles

Profiles with influence radius
 Logarithm and Measure Distance available for IV curves

Flooding process extension

Window creation of FFT results

Lattice process revision

Ironed surface calculation in the Roughness Analysis menu

• New Movies processes:

Rotate Angle

Flooding

Auto drift correction

Particle Movement Analysis

• New CITS processes:

Subtract IV Offset

Reverse IV Curves

Replace Topo Image

Expanded CITS view visualizes all of the current images



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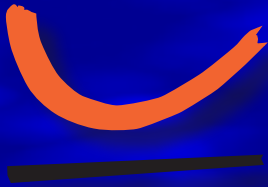
**Specifications subject to change without notice

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Data Acquisition:

- **DSP Compatibility:**
C31
C32
M6701

- Dulcinea High Voltage Unit Compatible

- **General improvements in scanning interface:**
Scanning direction (up/down) indicated by arrow
Scanning workspace can display up to 17 different images simultaneously during acquisition

- **Improvements available only to Dulcinea users:**

Smooth gains change
Software control for the laser
Capability of applying 100Hz/10Hz filters to X, Y and Z high voltage outputs
High Voltage Bias (up to 150V) available
User selectable signal monitoring to BNCs
Software controlled Z Offset
Output gains can be as small as 0.06
Dynamic Gain Out separated in Gain Out X and Y for phase and amplitude

- Scanning Modes improved substantially:
PLL
3d Modes
Jumping Mode (for acquiring good results in liquids)
Plane Scan

- Other new features:
M6701 Digital Signal Processor users will suffer no arbitrary transmission times between the scans
Bias zero during IZ option for IZ curves acquisition
Maximum drift correction parameter in movie acquisition
CITS acquisition can be performed acquiring any channel (not just current)
Number of acquired channels can be changed
Logitech Wingman cordless joystick can be used to control laser (only for Dulcinea) and approach motor
Complex way to save acquired curves removed



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