

warranty

We are pleased to submit the information of **NAMA-AFM** system, or call **NAMA-SPM** specification and our latest price and sales conditions as you inquired about.

	Description of good :																						
	<p>NAMA-AFM is an advanced scanning force microscope capable of providing clear, accurate and reproducible 2D and 3D images in nano meter-scale.</p> <p><i>Now with Advantages :</i></p> <ol style="list-style-type: none"> 1- <u>Semi Contact- Non Contact and Contact Modes</u> 2- <u>Adjust Sample Conservator Table electronically</u> 3- <u>Electronically control PID Steps</u> 4- <u>Camera Turn on & off electronically</u> 5- <u>Lithography Options</u> 6- <u>Different signal process and filters</u> 7- <u>Easy approaches system</u> 8- <u>Easy cantilever mounting</u> 9- <u>Controllable scan ratio and so many scan parameters</u> 10- <u>Sophisticated analyses software</u> 11- <u>Force Spectroscopy</u> 12- <u>Phase image mode</u> 13- <u>Amplitude image mode</u> 14- <u>and.....</u> <p>Main parts of each system includes:</p> <p>*Consisting of:</p> <table border="0" style="width: 100%;"> <thead> <tr> <th></th><th style="text-align: right;"><u>Qty</u></th></tr> </thead> <tbody> <tr> <td>1- Electronic control system</td><td style="text-align: right;">1</td></tr> <tr> <td>2- AFM Head and 1 cameras</td><td style="text-align: right;">1</td></tr> <tr> <td>3- Interface boards</td><td style="text-align: right;">1</td></tr> <tr> <td>4- Software CD</td><td style="text-align: right;">1</td></tr> <tr> <td>5- Connection cables and related connectors</td><td style="text-align: right;">10</td></tr> <tr> <td>6- Interface cable</td><td style="text-align: right;">1</td></tr> <tr> <td>7- Computer Case</td><td style="text-align: right;">1</td></tr> <tr> <td>8- Key board</td><td style="text-align: right;">1</td></tr> <tr> <td>9- Mouse</td><td style="text-align: right;">1</td></tr> <tr> <td>10- LCD monitor 17"</td><td style="text-align: right;">1</td></tr> </tbody> </table>		<u>Qty</u>	1- Electronic control system	1	2- AFM Head and 1 cameras	1	3- Interface boards	1	4- Software CD	1	5- Connection cables and related connectors	10	6- Interface cable	1	7- Computer Case	1	8- Key board	1	9- Mouse	1	10- LCD monitor 17"	1
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Z -Approach Module

Consisting of a precision aligned sliding mechanism and high accuracy linear pizoemotor:

Z movement resolution = 0.045 nm
= 0.0045 nm in zoom mode

High mechanical stability is achieved through rigid structural components accompanied by zero-backlash mechanism.

Tip- Holder Module

Consisting of 3 pizeoactuator for X, Y and Z and AC mode :

Range of X,Y Tip deflection = $15\text{ }\mu\text{m}$

Range of Z (vertical) Tip movement = $4\text{ }\mu\text{m}$

X,Y scanning resolution = 0.15 nm
= 0.015 nm in zoom mode

High mechanical stability is achieved through rigid structural components accompanied by zero-backlash mechanism. Ergonomic considerations are implemented for easy and fast tip replacement.

X-Y Table

Consisting of motorized clamp, a precision aligned 2-D motorized sliding mechanism and sample holder. Ergonomic considerations are implemented for easy and fast sample replacement.

Digital Electronics

Includes atomic force measurement with very low noise signal amplification achieved due to the advanced transmission and filtering techniques.

Includes position controllers for all microscope functions through keyboard, mouse and trackball.

Windows-Based Software

User friendly windows-based software provides full control over the hardware and a wide range of image processing facilities:

Image size, resolution and live image all adjustable.

Scan in both constant height and constant current modes.

Ability to show various views of different images simultaneously

View images in 2D and 3D

Using different palettes

Edit palettes

View each scan line in the image

Flexible coloring

Different filters:

- Median
- Low pass Average
- Low pass Gaussian

<ul style="list-style-type: none">- High pass- High boost- Plane adjust- Log- Scale- Negative- Crop- Line adjust-FFT option <p>Show images as icons</p> <p>Automatic and manual tip approach</p> <p>Select the tip speed to move</p> <p>Live display of tip during approach</p> <p>Select scan area</p> <p>Scan with selectable resolution</p> <p>Scan with selectable frequency</p> <p>Different PID configurations</p> <p>Zoom capability</p> <p>Manual Tip movement</p> <p>Computer specifications</p> <p>The Manufacturer reserves the right to change the computer specification according to topical situation in the computer market.</p> <p>Monitor specification</p> <p>17" LCD display monitor</p> <p>Camera</p> <table><tr><td>Spare parts:</td><td><u>Qty</u></td></tr><tr><td>- Samplers</td><td>4</td></tr><tr><td>- Small mechanical tool box</td><td>1</td></tr><tr><td>- AFM Tips</td><td>5</td></tr><tr><td>- Checking sample</td><td>2</td></tr></table>	Spare parts:	<u>Qty</u>	- Samplers	4	- Small mechanical tool box	1	- AFM Tips	5	- Checking sample	2
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Installation by Local agents product Engineer

Training: One person may attend the operator training course during 3 days according to the schedule (Appendix 1) at NATSYCO site in Tehran.

Terms and conditions:

Guaranty:

12 months from installation completion or 15 months from ex-work dispatch according to Appendix 2.

Service support:

Spare parts are guaranteed to be available for a minimum period of 10 years.

Installation and service support is available from local agent in Iran- Tehran.

Time of Delivery:

3-4 months from confirmed order and receive 50% cash in advance.

Terms of Delivery:

CIP Tehran

Terms of Payment:

50 % cash in advance

50 % cash on delivery

Bank Account: 104-2-2522915-1, Eghtesad E Novin Bank, Kargar Shomali Branch, Tehran. Iran.

In favor of Nano System Pars.

Validity:

This Performa Invoice is valid for 30 days.

Export packing:

Pack in 7 boxes Gross weight approximately: 55 Kg.