



**INDIAN INSTITUTE OF TECHNOLOGY BOMBAY**  
**MATERIALS MANAGEMENT DIVISION**  
Powai, Mumbai 400076.

Ref No.(PR No.1000038967)

(Rfx No. 6100001679)

**Technical Specifications : Add On Components for existing  
BIOAFM ) (Qty : 1 No.)**

Sr.No.	Technical Specifications	Compliance (Yes/No)
1.	<p><b>A.</b> AM FM-MFP: AM-FM Viscoelastic Mapping Mode Cantilever Holder Kit for MFP.</p> <p>a. AM-FM Viscoelastic Mapping Mode Cantilever Holder Kit.</p> <p>b. Includes MFP- 3D AM-FM high bandwidth cantilever holder for use in air only, AC160TS- R3-10, AC240TS-R3-10, tools and spares.</p> <p>c. May also be used for contact resonance measurements for cases where the contact resonance sample holder cannot be used, though the contact resonance sample holder offers better performance.</p> <p><b>B.</b> PHEAT-PEEK - PolyHeater for MFP-3D AFM System</p> <p>a. Extra High temperature, modular heating stage designed especially for high temperature polymer studies.</p> <p>b. This stage rides on the MFP-3D XY scanning stage and can heat samples up to 8 x 8mm from ambient to 250°C.</p> <p>c. Control of the stage directly from the MFP-3D AFM software allows custom temperature profiles to be run during imaging experiments.</p>	

- d. Includes all-PEEK Cantilever Holder and kit of accessories and spare parts, allowing for fully sealed operation.
- e. Requires new or existing MFP Environmental Controller (CTRL-HTR) sold separately.

**C. CH-3D: MFP-3D AFM Cantilever Holder Kit**

- a. Standard Cantilever Holder (PEEK body with SS clip) Assembly Kit.
- b. Included with system purchase, but also available as a spare part.
- c. Assembly kit includes fully assembled and tested cantilever holder (PEEK body), screw driver, extra screws, O-rings, coupling pads and fluid cell ring tool.

**D. Computer with IGOR (No Monitor)**

Computer system with AFM software (Single seat Igor Pro software) modules. (Monitor will not be supplied with this above item)

**E. XY stage scanner**

- a. Piezo driven flexure stage XY scanner with 120µm closed-loop scan range, low out of plane motion, and <0.6nm sensor noise (ADev,0.1Hz- 1kHz) at centre range.
- b. Operates in open-loop, closed-loop and hybrid mode.

**Warranty : 1 Year**