

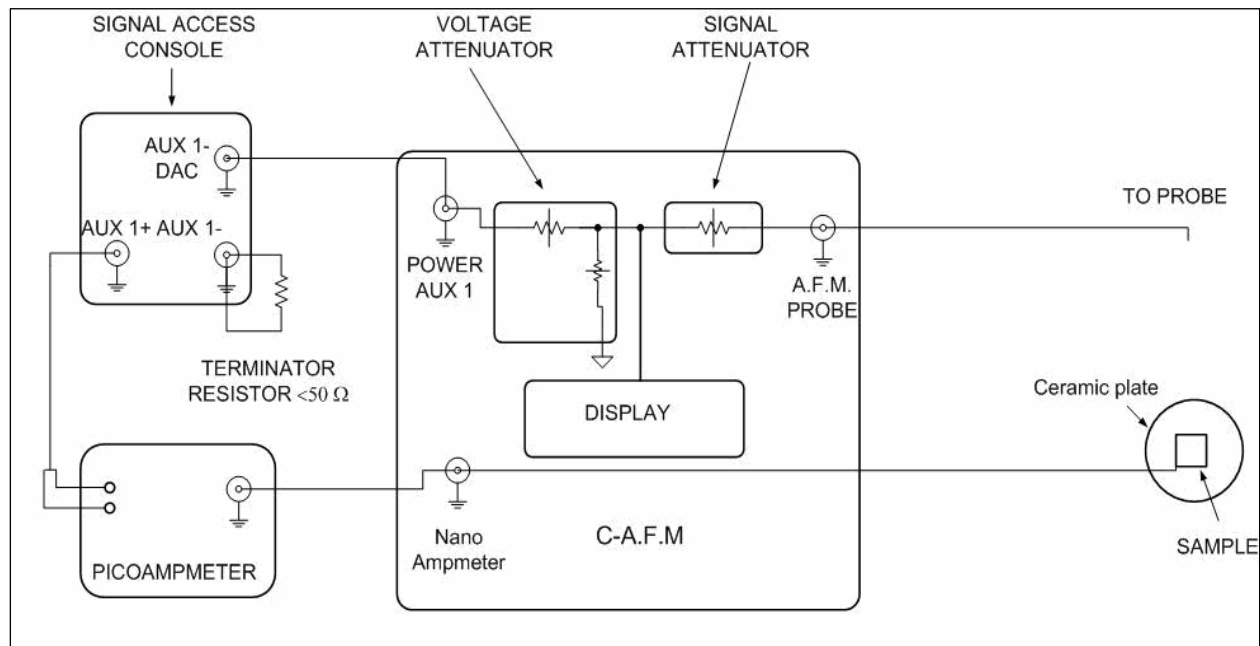
The C-AFM Module for the NSCRIPTOR™ DPN® System

NanoInk's C-AFM Module has been designed to be used with the NSCRIPTOR DPN System. The module enables conductivity mapping of a wide range of sample conductivities while minimizing potential tip and sample damage.

This procedure will aid the user in setting up the NSCRIPTOR DPN System for C-AFM applications. This type of application will be done in SPM Cockpit.

Note: Please remember to close the InkCAD™ software and terminate the DPN Server before opening SPM Cockpit to avoid any software conflicts.

Below is a diagram that shows all the C-AFM connections.



Setting up your C-AFM Module:

1. Connect BNC cable from “Aux 1 DAC” on the Signal Access Console to “Power Aux 1” on the C-AFM module.



2. Connect a BNC cable from “Aux 1+” on the Signal Access Console to the Pico-amp meter output. Depending on your pico-amp meter, you may need to use a BNC to banana converter for this connection.



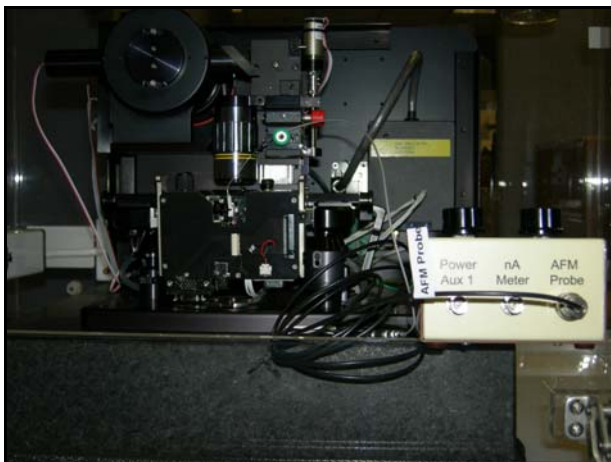
3. Attach a 50 Ohm terminator resistor to “Aux 1-” on the Signal Access Console, as shown below.



4. Connect a BNC cable between “nA Meter” BNC connector on the C-AFM module and the “CAT I” BNC connector on the Pico-amp meter.



5. Connect the BNC cable from “AFM Probe” connector on the C-AFM Module to the C-AFM probe cable, which attaches to the cantilever. **Note: When attaching the cantilever to the cable, be certain to align the white dots (polarities) on the same side so that the tip is properly grounded.**



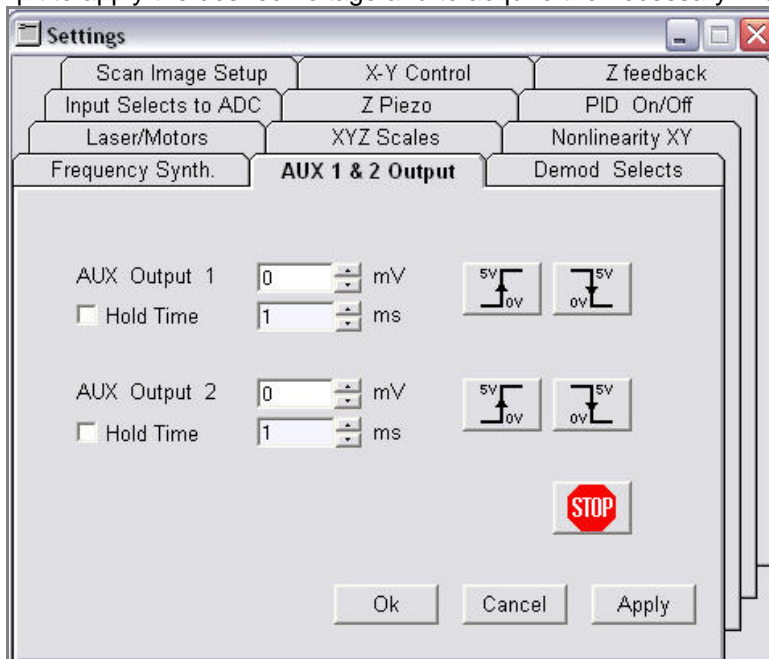
6. Connect the Signal Access Console to the ribbon cable connector running between the instrument and the controller.



- To install the ceramic disk remove 1 disk from the variable sample puck holder. **Note: Make sure that you have enough clearance between the sample holder and the scanner after installing the ceramic disk. If necessary, remove additional disks.**



- Open SMP Cockpit to apply the desired voltage and to acquire the necessary images.



For more information including pricing, please contact NanoInk Sales Department at sales@nanoink.net or 1-847-679-NANO.

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