

VertiSense™ Imaging Amplifier

DATA SHEET

VertiSense™ Thermal Imaging Amplifier is used for Scanning Thermal Microscopy. This innovative ultra low noise amplifier is used with AppNano VertiSense™ thermal probes to image thermal properties of a sample in either Temperature Mapping Mode (TMM) or Thermal Conductivity Mapping Modes (CMM)

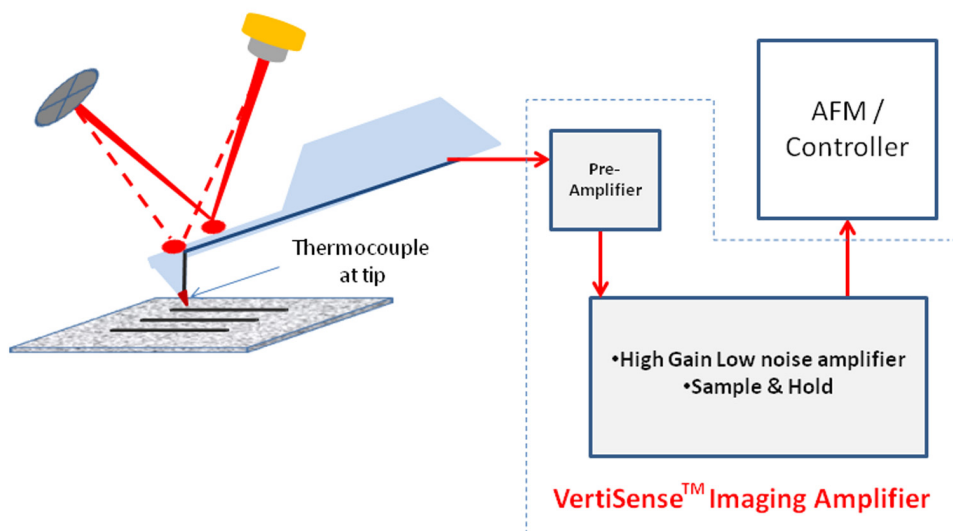


The linear characteristics of the thermocouple sensor and amplifier allow a direct temperature display during thermal imaging of the sample. The sample and hold features of the amplifier allow imaging of pulsed heat sources.

VertiSense™ Thermal Imaging Amplifier

Input:	$\pm 10.0 \text{ mV}$
Output Range:	$\pm 10 \text{ V}$
Signal Gain:	6 ranges from 100 to 10,000
Noise:	$<1 \text{ nV @ } 3 \text{ kHz}$
CM Rejection:	High ($> 115 \text{ dB}$)
Temperature Display:	Real Time Tip
T/C Calibration:	Adjustable
Sample Heating:	DC or Pulsed*

* Pulse mode uses sampling circuit for stable output



An easy positioning of the laser deflection spot on the cantilever enables Temperature Mapping Mode (TMM) or Conductivity Mapping Mode (CMM).