

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)

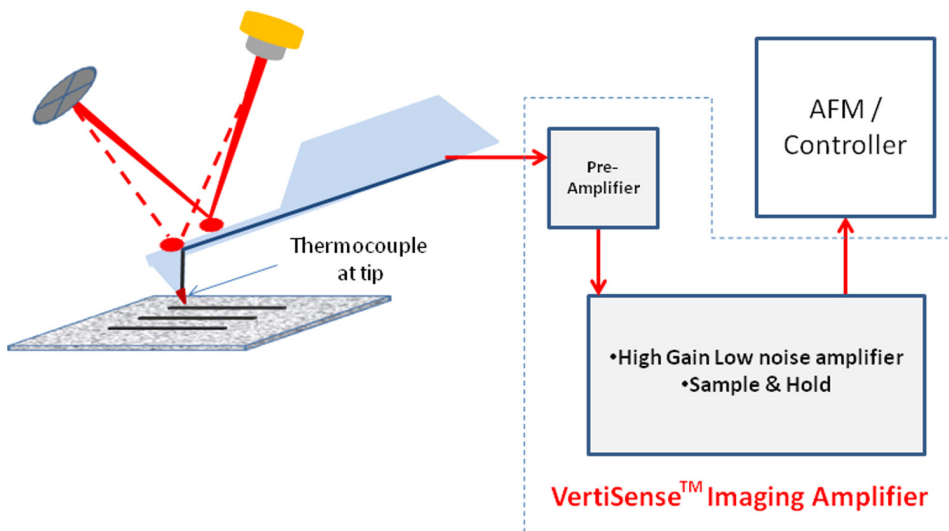


The linear characteristics of the thermocouple sensor and amplifier allow a direct temperature display during thermal imaging of the sample. The sample and hold features of the amplifier allow imaging of pulsed heat sources.

VertiSense™ Thermal Imaging Amplifier

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|----------------------|-----------------------------|
| Input: | ± 10.0 mV |
| Output Range: | ± 10 V |
| Signal Gain: | 6 ranges from 100 to 10,000 |
| Noise: | <1 nV @ 3 kHz |
| CM Rejection: | High (> 115 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).