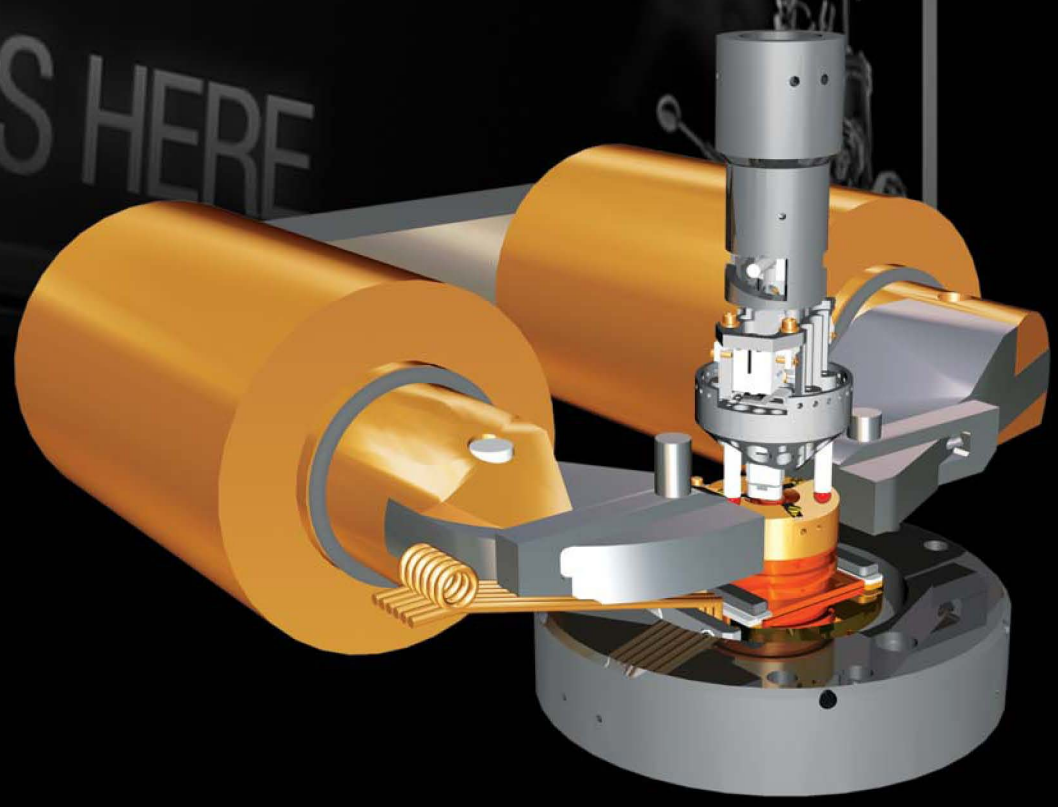
RHK Technology
Imaging the Future of Nanoscience

Variable Magnetic Field (VMF)

Variable Magnetic Field, Cryogen-Free, AFM/STM

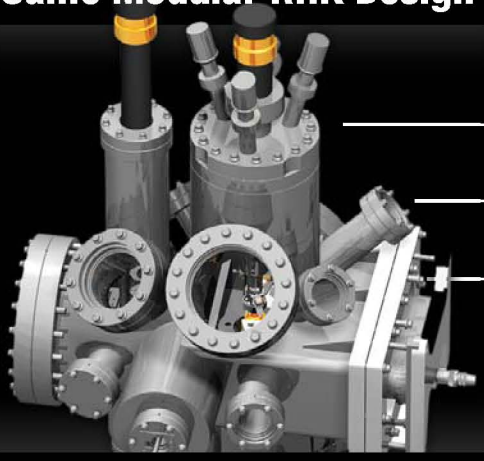
+ **Strong Field:** Up to 1T magnetic field in sample plane
+ **Options:** Out of plane magnetic field available
+ **Smart Design:** Ex-vacuum convectional electromagnets require no cooling and provide continuously variable & reversible fields
+ **No Compromise:** In SPM resolution, drift, or stability



INTEGRATED MAGNETICS

RHK's unique electromagnet design delivers a reversible and continuously variable field up to 1 Tesla in plane with a sample size of 1 cm. No compromise is made in resolution, drift, stability, or vibration isolation. The field can be varied real-time while imaging without retracting the probe from the sample.

Same Modular RHK Design



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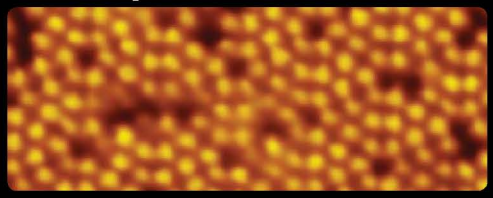
VMF DATA

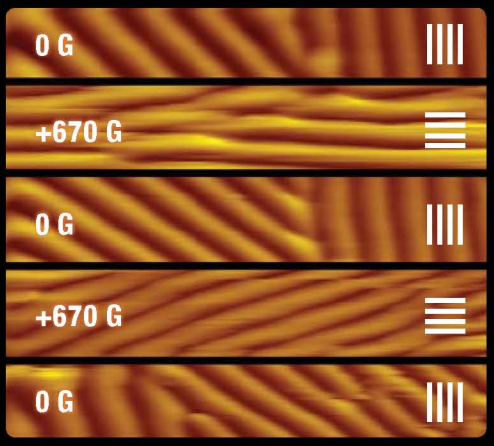
No Compromise



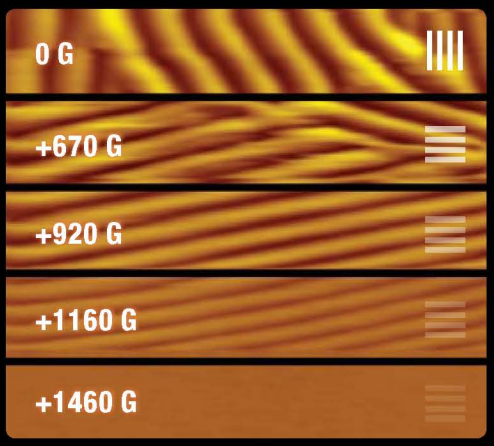
Resolution, drift, stability, and vibration isolation are uncompromised throughout the full range of VMF activity.

LCMO:
Non-Magnetic at RT, Magnetic at LT

At RT, LCMO shows no magnetic features. When cooled it goes through a phase transition and becomes magnetic. Sample has then reached temperatures < 250K.



LCMO, On/Off: Sample above cooled to 195K. Direction of magnetic "strips" change as magnetic field is turned on and off.



LCMO, Ramped Up: Sample above cooled to 195K. Magnetic "strip" fades as field is increased.