RF Near Field Probe Set DC to 9GHz
EMF & RF close field sniffer-set for use with any Spectrum Analyzer or Measurement Receiver

Included with delivery:
- 1 x 50mm magnetic field probe
- 1 x 25mm magnetic field probe
- 1 x 12mm magnetic field probe
- 1 x 6mm magnetic field probe
- 1 x E-field probe
- Pre-amplifier with power supply (only PBS2)
- 1m SMB-to-SMA Cable
- Pistol grip with tripod function
- Transport case with paddings
- Exhaustive manual
- Power Converter Excel files on CD
- Power Converter App for iPhone & iPad
  (Download via Apple Store)

Made in Germany
Specifications:

**PBS1 & PBS2 Sniffer Set:**
- Frequency range: DC-9GHz
- Pre-Amplifier noise (PBS2): 3.5dB typical
- Pre-Amplifier type/gain (PBS2): "linear" falloff. 1MHz: 40dB; 3GHz: 37.5dB; 6GHz: 35dB
- Dimensions of case (L/W/D): (300x190x70) mm
- Weight PBS1 (case incl. probes): 1200gr
- Weight PBS2 (case incl. probes and pre-amplifier): 1500gr

**Isotropic E-field probe:**
- Sensor diameter: 3mm
- Maximum resonance frequency: 9GHz
- Connector: 50 Ohms SMB socket (m)

**50mm magnetic field probe:**
- Sensor diameter: 50mm
- Maximum resonance frequency: 700MHz
- Connector: 50 Ohms SMB socket (m)

**6mm magnetic field probe:**
- Sensor diameter: 6mm
- Maximum resonance frequency: >6GHz
- Connector: 50 Ohms SMB socket (m)

**12mm magnetic field sniffer:**
- Sensor diameter: 12mm
- Maximum resonance frequency: 2.6GHz
- Connector: 50 Ohms SMB socket (m)

**25mm magnetic field probe:**
- Sensor diameter: 25mm
- Maximum resonance frequency: 500MHz
- Connector: 50 Ohms SMB socket (m)

Included in delivery is a transport case with paddings for the 5 probes and for the pre-amplifier with power supply (only included at the PBS2). Each probe-set also contains an exhaustive english manual, a 1m SMB-to-SMA cable and a pistol grip with miniature tripod function.
The PBS2 probe set additionally contains a high-performance pre-amplifier, allowing measurement of significantly weaker interference sources, boosting the sensitivity of our instruments by up to 40dB.

All probes have deliberately been implemented as passive devices to make them usable as transmitting devices as well. Consequently, components and circuits sensitive to interference can easily be pinpointed.

Perfect for locating interference sources which might have been found e.g. in an EN55011, EN55022 or EN50371 (Class A or Class B) survey. After implementing appropriate changes in the circuit, their efficiency can easily and reliably be verified. That way, expensive and time-consuming re-assessments in an EMC laboratory can be skipped.

Verification of official EMC limits: For example, should an interference source exceed an official EMC limit by 10dB, our probe set can easily verify if a certain countermeasure succeeds in making the circuitry conforming again.

Very useful is the integrated (1/4") tripod connector which allows to mount the probes on each tripod.

The RF Probe Set can be connected to any Spectrum Analyzer or Oscilloscope. For units with N-connector we offer a SMA-to-N Adapter (optional).
References

User of Aaronia Antennas, Probe Sets and Spectrum Analyzers (Examples)

Government, Military, aeronautic, astronautic
- Airbus, Hamburg, Germany
- Boeing, USA
- NATO, Belgium
- Bund (Bundeswehr), Leer, Germany
- Bundeswehr (Technische Aufklärung), Hof, Germany
- Lufthansa, Hamburg, Germany
- DLR, Germany
- Eurocontrol (Flugüberwachung), Belgium
- Australian Government Department of Defence, Australia
- EADS (European Aeronautic Defence & Space Company) GmbH, Ulm, Germany
- Institut für Luft- und Raumfahrtmedizin, Köln, Germany
- Deutscher Wetterdienst, Tauche, Germany
- Polizeipräsidium, Bonn, Germany
- Landesamt für Umweltschutz Sachsen-Anhalt, Germany
- Zentrale Polizeitechnische Dienste, Germany
- Bundesamt für Verfassungsschutz, Germany
- BEV (Bundesamt für Eich- und Vermessungswesen)
- Europäisches Zentrum für Umweltmedizin, Austria

Industry
- Audi AG, Neckarsulm, Germany
- Rohde & Schwarz, München, Germany
- Shell Oil Company, USA
- Motorola, Brazil
- Anritsu GmbH, Düsseldorf, Germany
- Philips Technologie GmbH, Aachen, Germany
- Siemens AG, Erlangen, Germany
- ThyssenKrupp, Stuttgart, Germany
- Carl-Zeiss-Jena GmbH, Jena, Germany
- BMW, München, Germany
- Daimler Chrysler AG, Bremen, Germany
- ATI, USA
- BASF, Ludwigshafen, Germany
- Hewlett Packard, Dornach, Germany
- Robert Bosch GmbH, Plochingen, Germany
- IBM Deutschland, Stuttgart, Germany
- EnBW Kernkraftwerk GmbH, Neckarwestheim
- AMD, Dresden, Germany
- Infineon Technologies, Regensburg, Germany

Research/Development, Science and Universities
- Deutsches Forschungszentrum für Künstliche Intelligenz, Germany
- Universität Freiburg, Germany
- Indonesien Institute of Sience, Indonesia
- Max-Planck-Institut für Polymerforschung, Mainz, Germany
- Los Alamos National Laboratory, USA
- University of Bahrain, Bahrain
- University of Florida, USA
- Universität Erlangen, Erlangen, Germany
- Universität Hannover, Hannover, Germany
- University of Newcastle, United Kingdom
- Universität Strasbourg, France
- Universität Frankfurt, Frankfurt, Germany
- Uni München – Fakultät für Physik, Garching, Germany
- Technische Universität Hamburg, Hamburg, Germany
- Max-Planck-Institut für Radioastronomie, Bad Münstereifel, Germany
- Max-Planck-Institut für Quantenoptik, Garching, Germany
- Max-Planck-Institut für neurologische Forschung, Köln, Germany
- Max-Planck-Institut für Kernphysik, Heidelberg, Germany
- Max-Planck-Institut für Eisenforschung, Düsseldorf, Germany
- Forschungszentrum Karlsruhe, Karlsruhe, Germany
- Forschungszentrum Molekularphysiologie des Gehirns, Germany