Active Logper Antenna up to 6GHz
Series HyperLOG® 40 X
Active-Antennas for the whole frequency range from 400MHz up to 6GHz

Highlights
- Compatible with any Spectrum Analyzer or Oscilloscope
- Incl. High-End Preamplifier
- Ultra high gain (45dBi)
- Runs with battery or power supply
- Compact and sturdy design
- Can be used in the lab and for open-field application
- Made in Germany
- 10 years warranty

Application examples
- The HyperLOG X LogPer antenna series can be used to locate extremely weak signals, thanks to the integrated preamplifier. The antenna offers excellent directional characteristics which can be optimized using the optional Laser and Compass.
- Using the optional, heavy aluminum pistol grip significantly simplifies the rf bearing. It allows an easy adjustment of the polarization planes in 45° steps.
- The antenna can also be used in a passive-mode by removing the preamplifier.

Included in delivery
- HyperLOG® 40 X active antenne
- Typical calibration datas with up to 561 calibration points (10MHz-steps)
- Integrated preamplifier (removable) with integrated battery & power supply
- Aluminum transport case with protection foam
- Rugged, screwable pistol grip with mini tripod functionality
- Aaronia special SMA tool
Specifications

HyperLOG® 4025 X:
- Design: active logper
- Frequency range: 400MHz-2.5GHz (down to 70MHz with limited directivity)
- Preamp noise: "linear" increasing, 100MHz: 3.5dB, 3GHz: 4dB, 6GHz: 4.5dB
- Preamp gain (typ.): "linear" falloff, 1MHz: 40dB, 3GHz: 37.5dB, 6GHz: 35dB
- Nominal impedance: 50 Ohm
- VSWR (typ.): <1:2
- Gain (typ.): 44dBi
- Calibration points: 211 (10MHz steps)
- RF-connection: SMA (f) or N (see optional adapter)
- Dimensions (L/W/D): (640x360x30) mm
- Weight: 1400gr
- Tripod connection: 1/4"
- Interface: USB 2.0/1.1 (read out of the calibration datas)
- Warranty: 10 years

HyperLOG® 4040 X:
- Design: active logper
- Frequency range: 400MHz-4GHz (down to 70MHz with limited directivity)
- Preamp noise: "linear" increasing, 100MHz: 3.5dB, 3GHz: 4dB, 6GHz: 4.5dB
- Preamp gain (typ.): "linear" falloff, 1MHz: 40dB, 3GHz: 37.5dB, 6GHz: 35dB
- Nominal impedance: 50 Ohm
- VSWR (typ.): <1:2
- Gain (typ.): 44dBi
- Calibration points: 361 (10MHz steps)
- RF-connection: SMA (f) or N (see optional adapter)
- Dimensions (L/W/D): (640x360x30) mm
- Weight: 1400gr
- Tripod connection: 1/4"
- Interface: USB 2.0/1.1 (read out of the calibration datas)
- Warranty: 10 years

HyperLOG® 4060 X:
- Design: active logper
- Frequency range: 400MHz-6GHz (down to 70MHz with limited directivity)
- Preamp noise: "linear" increasing, 100MHz: 3.5dB, 3GHz: 4dB, 6GHz: 4.5dB
- Preamp gain (typ.): "linear" falloff, 1MHz: 40dB, 3GHz: 37.5dB, 6GHz: 35dB
- Nominal impedance: 50 Ohm
- VSWR (typ.): <1:2
- Gain (typ.): 45dBi
- Calibration points: 561 (10MHz steps)
- RF-connection: SMA (f) or N (see optional adapter)
- Dimensions (L/W/D): (640x360x30) mm
- Weight: 1400gr
- Tripod connection: 1/4"
- Interface: USB 2.0/1.1 (read out of the calibration datas)
- Warranty: 10 years
Aaronia offers the new standard antennas for RF direction finding relative to gain, sensitivity and functionality. This high-end but still affordable antennas find every signal, no matter how weak.

In conjunction with the HyperLOG® X-Series antennas, every regular spectrum analyser becomes a fully professional directional RF measurement device within a few moments.

The USB interface allows the readout of the precise calibration datas which offers field strength measurements or high grade EMC tests.

The HyperLOG® antennas come standard with a specially constructed, high tech radom housing. This housing has been constructed after intense research with the most modern computer technology in such a way that its shape, material and special coating have virtually no influence on measurements, not even in case of dew or other kinds of humidity collecting on the surface. Another important factor for Aaronia was the development of a radom with the lowest possible damping factor achievable. This turned out to be quite an adventure for our development team, particularly in the high GHz ranges. Fortunately, this adventure has been mastered resulting in a beautiful, elegant design, to the complete satisfaction of the development team. Our first test measurements even by far surpassed our guidelines!

The resulting antenna had the best possible protection against mechanical stress and environmental influence without sacrificing any of its performance.

Included in delivery is an aluminum-design transport case with protection foam for the active antenna and included accessories. Every HyperLOG® 40 X series antennas also includes an international power supply, a pistol grip with miniature tripod functionality and a SMA tool.
Recommended accessories for Aaronia Antennas

**Heavy Plastic Carrycase PRO**

Schock resistant, heavy version with padding. Offers spaces for a HyperLOG 7xx or 60xxx antenna and 2 SPECTRAN units with all accessories. A must for the professional user or outdoor usage!

*Order/Art.-No.: 243*

**1m / 5m / 10m SMA-Cable**

High quality special SMA cable for connecting any HyperLOG®-Antenna or BicoLOG®-Antenna with various test equipment like our RF Spectrum-Analyzer. You can choose between 3 different cables:

- 1m standard SMA cable (RG316U)
- 5m LowLoss SMA cable (especially low damping)
- 10m LowLoss SMA cable (especially low damping)

All versions: SMA plug (male) / SMA plug (male)

*Order/Art.-No.: 771 (1m Cable), 772 (5m Cable), 773 (10m Cable)*

**SMA to N Adapter**

This special high quality adapter allows operation of all HyperLOG®-Antenna with any standard spectrum-analyzer with N connector. Also this adapter is needed to connect BicoLOG®-antennas to a SPECTRAN Spectrum Analyzer.

Especially massive, chrome-plated design. This adapter is usable for very high frequencies up to at least 18GHz. Physical dimensions are just 30x20mm. Nominal impedance 50 Ohms. Layout: SMA socket (female) / N plug (male).

*Order/Art.-No.: 770*

**Laser / Compass**

Laser for pin pointing any RF source even at bright daylight. Available as 1mW version (red Laser) or 150mW power version (green Laser). Easy to connect on top of any HyperLOG X antenna. Including connector and all needed screws.

*Order/Art.-No.: 791 (150mW Laser), 792 (1mW Laser)*

Small Compass Ball for HyperLOG X Antennas. Works at any antenna position due to its liquid filled ball. Can be used together with above mentioned laser or separately. Including connector and all needed screws.

*Order/Art.-No.: 795*

**Heavy multifunctional Pistol Grip (strongly recommended!)**

Highly recommend for the usage of our HyperLOG active antennas. Quick and easy change of antenna polarization, perfect antenna handling (even with the more heavy HyperLOG 40xx and 30xx series).

*Order/Art.-No.: 262*
## Frequency overview Analyzer & Antennas

### Frequency Overview SPECTRAN Spectrum Analyzer

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### Frequency Overview HyperLOG and BicoLOG Antennas and Probes

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Note: The tables represent frequency ranges and availability of analyzers and antennas, with specific models and options indicated for each frequency band.
References

User of Aaronia Antennas and Spectrum Analyzers (Examples)

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

Industry
- Shell Oil Company, USA
- ATI, USA
- Fedex, USA
- Walt Disney, Kalifornien, USA
- Agilent Technologies Co. Ltd., China
- Motorola, Brasilien
- IBM, Schweiz
- Audi AG, Neckarsulm
- BMW, München
- Daimler Chrysler AG, Bremen
- BASF, Ludwigshafen
- Deutsche Bahn, Berlin
- Deutsche Telekom, Weiden
- Siemens AG, Erlangen
- Rohde & Schwarz, München
- Infineon, Österreich
- Philips Technologie GmbH, Aachen
- ThyssenKrupp, Stuttgart
- EnBW, Stuttgart
- RTL Television, Köln
- Pro Sieben – SAT 1, Unterföhring
- Channel 6, Großbritannien
- WDR, Köln
- NDR, Hamburg
- SWR, Baden-Baden
- Bayerischer Rundfunk, München
- Carl-Zeiss-Jena GmbH, Jena
- Anritsu GmbH, Düsseldorf
- Hewlett Packard, Dornach
- Robert Bosch GmbH, Plochingen
- Mercedes Benz, Österreich
- EnBW Kernkraftwerk GmbH, Neckarwestheim
- AMD, Dresden
- Infineon Technologies, Regensburg
- Intel GmbH, Feldkirchen
- Philips Semiconductors, Nürnberg
- Hyundai Europe, Rüsselsheim
- Saarschmiede GmbH, Völklingen
- Wilkinson Sword, Solingen
- IBM Deutschland, Stuttgart
- Vattenfall, Berlin
- Fraport, Frankfurt

Research/Development, Science and Universities
- Deutsches Forschungszentrum für Künstliche Intelligenz, Kaiserslautern
- Universität Freiburg
- Indonesien Institute of Sience, Indonesien
- Max-Planck-Institut für Polymerforschung, Mainz
- Los Alamos National Laboratory, USA
- University of Bahrain, Bahrain
- University of Florida, USA
- Universität Erlangen, Erlangen
- Universität Hannover, Hannover
- University of Newcastle, Großbritannien
- Universität Strasbourg, Frankreich
- Universität Frankfurt, Frankfurt
- Uni München – Fakultät für Physik, Garching
- Technische Universität Hamburg, Hamburg
- Max-Planck-Institut für Radioastronomie, Bad Münstereifel
- Max-Planck-Institut für Quantenoptik, Garching
- Max-Planck-Institut für Kernphysik, Heidelberg
- Max-Planck-Institut für Eisenforschung, Düsseldorf
- Forschungszentrum Karlsruhe, Karlsruhe

- Max-Planck-Institut für Quantenoptik, Garching
- Max-Planck-Institut für Kernphysik, Heidelberg
- Max-Planck-Institut für Eisenforschung, Düsseldorf
- Forschungszentrum Karlsruhe, Karlsruhe

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- University of Frankfurt, Frankfurt
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- Technische Universität Hamburg, Hamburg
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- Forschungszentrum Karlsruhe, Karlsruhe
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