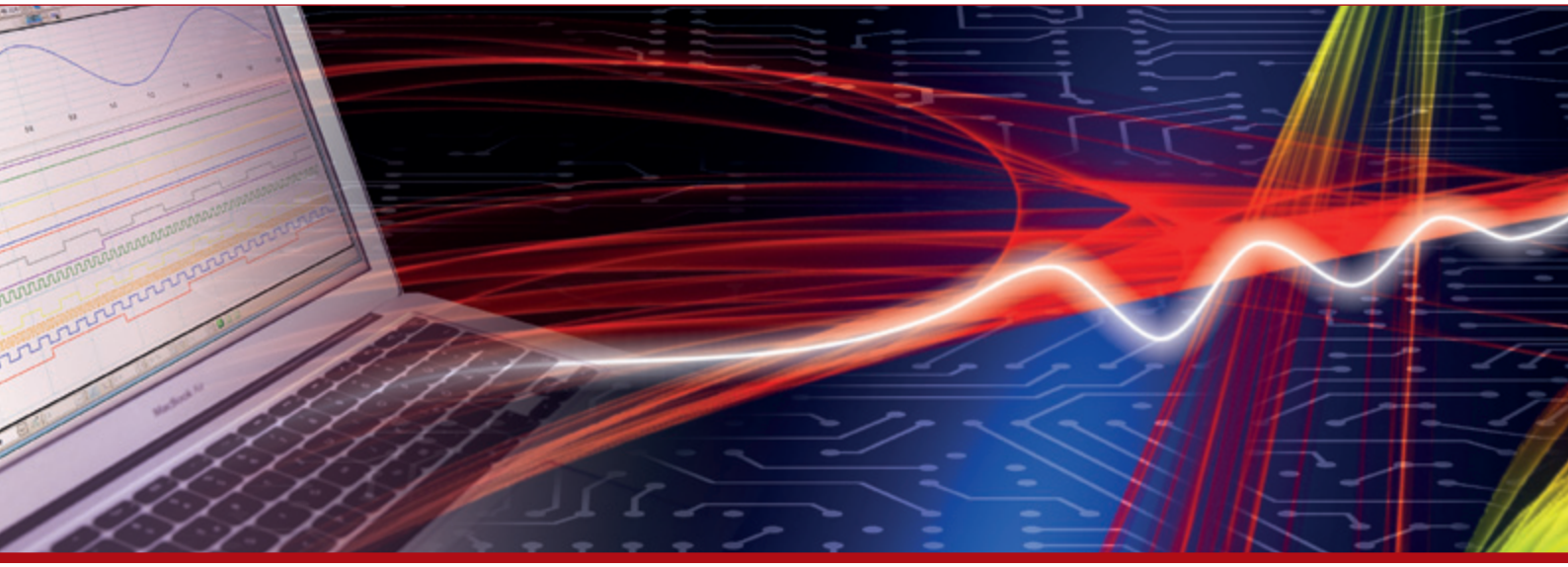
Product Datasheet - Technical Specifications



More information in our Web-Shop at ▸ **www.meilhaus.com**

Your contact

Technical and commercial sales, price information, quotations, demo/test equipment, consulting:

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ACTIVE BROADBAND ANTENNAS

HYPERLOG®

40 X SERIES

Active antenna for the entire frequency range from 400 MHz to 6 GHz

Highlights:

- Compatible with any spectrum analyzer or oscilloscope
- Ultra-high gain (45 dBi)
- Battery- or power supply-operated
- Suitable for open-field or lab application

AARONIA AG®

WWW.AARONIA.DE

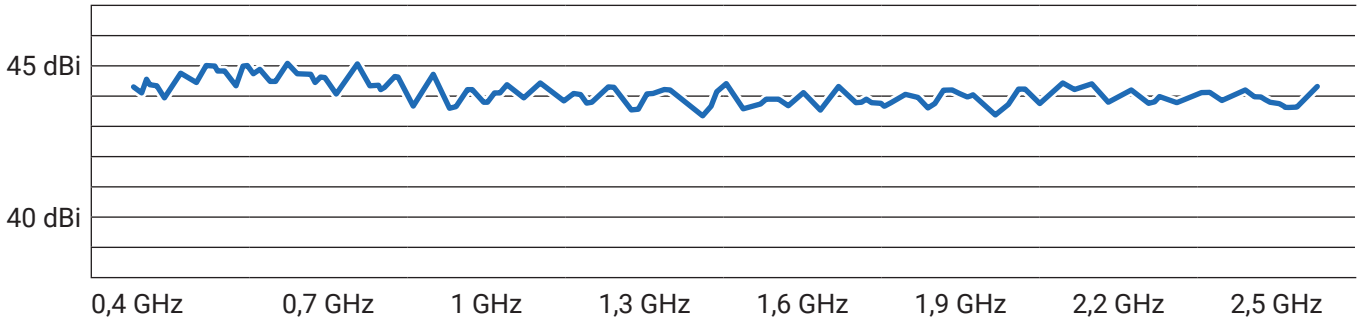
MADE IN GERMANY

Specifications

HyperLOG® 4025 X

Dimensions [L x W x D]	640 x 360 x 30 mm	Nominal Impedance	50 Ohm
Weight	1400 g	Calibration Points	211 (10 MHz steps)
Design	Active log-periodic	VSWR (typ.)	< 2
Gain (typ.)	44 dBi	Tripod Socket	1/4”
RF Connection	SMA (f) or N with adapter (see optional adapter)	Warranty	2 years
Frequency Range	400 MHz – 2,5 GHz (down to 70 MHz with limited directivity)	Interface	USB 2.0 / 1.1 (calibration data readout)
Pre-Amp Noise „linear“ increase	100 MHz: 3,50 dB; 2,50 GHz: 3,91 dB	Pre-Amp Gain (typ.) „linear“ falloff	1 MHz: 40,0 dB; 2,5 GHz: 38,0 dB

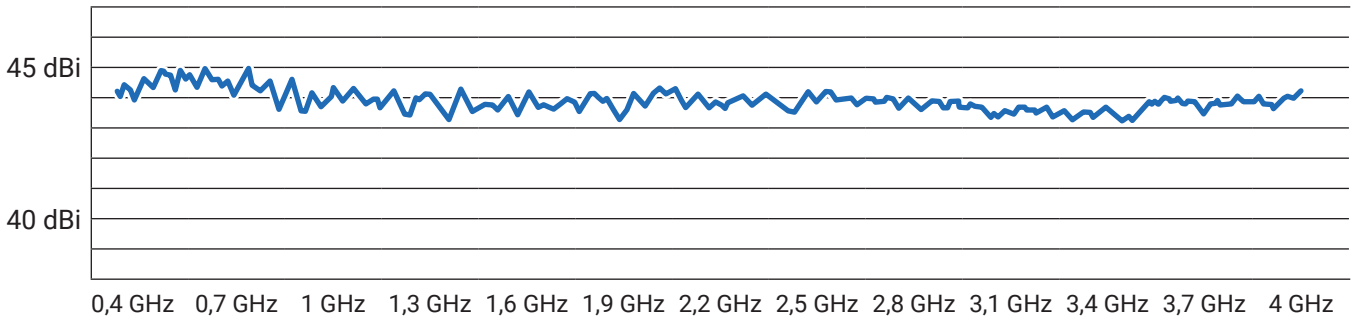
Gain Diagram HyperLOG® 4025 X



HyperLOG® 4040 X

Dimensions [L x W x D]	640 x 360 x 30 mm	Nominal Impedance	50 Ohm
Weight	1400 g	Calibration Points	361 (10 MHz steps)
Design	Active log-periodic	VSWR (typ.)	< 2
Gain (typ.)	44 dBi	Tripod Socket	1/4”
RF Connection	SMA (f) or N with adapter (see optional adapter)	Warranty	2 years
Frequency Range	400 MHz – 4 GHz (down to 70 MHz with limited directivity)	Interface	USB 2.0 / 1.1 (calibration data readout)
Pre-Amp Noise „linear“ increase	100 MHz: 3,50 dB; 4 GHz: 4,15 dB	Pre-Amp Gain (typ.) „linear“ falloff	1 MHz: 40,0 dB; 4 GHz: 36,5 dB

Gain Diagram HyperLOG® 4040 X

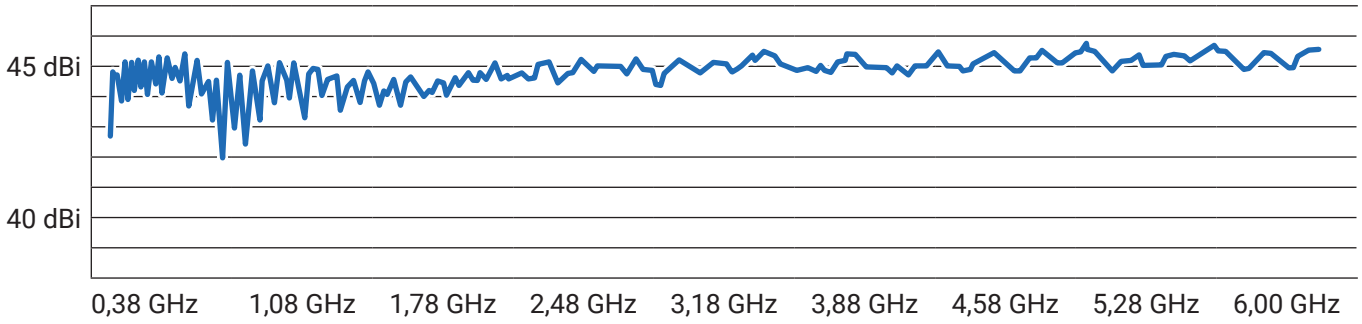


Specifications

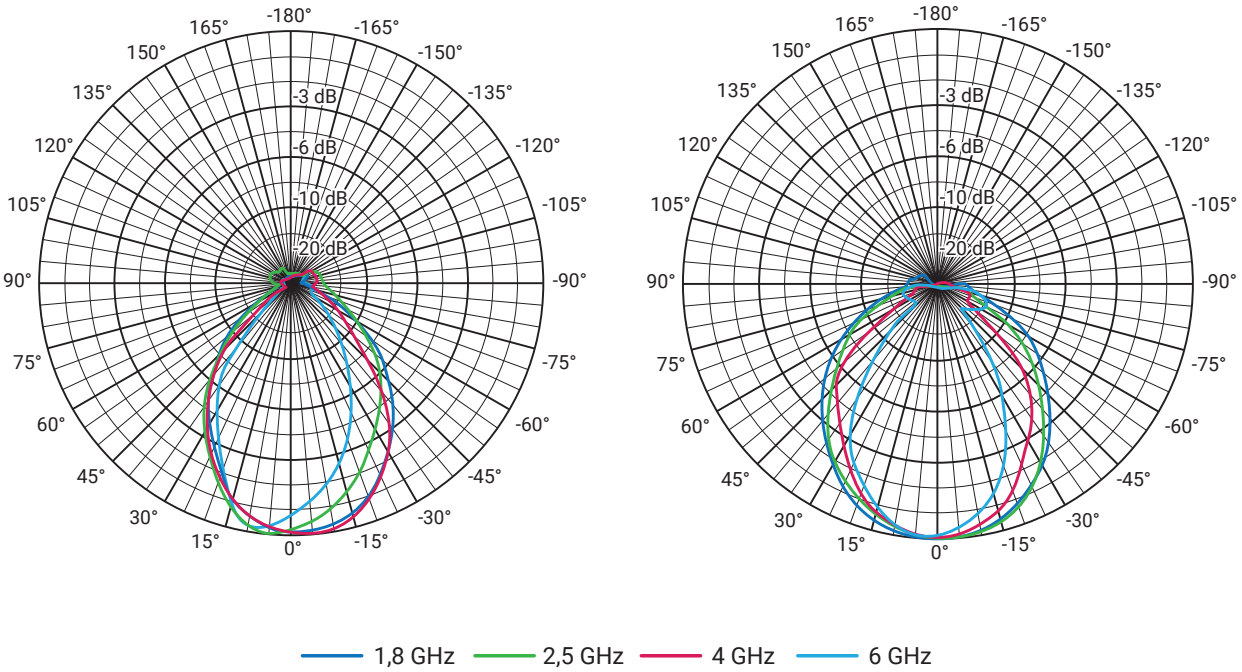
HyperLOG® 4060 X

Dimensions [L x W x D]	640 x 360 x 30 mm	Nominal Impedance	50 Ohm
Weight	1400 g	Calibration Points	561 (10 MHz steps)
Design	Active log-periodic	VSWR (typ.)	< 2
Gain (typ.)	45 dBi	Tripod Socket	1/4”
RF Connection	SMA (f) or N with adapter (see optional adapter)	Warranty	2 years
Frequency Range	400 MHz – 6 GHz (down to 70 MHz with limited directivity)	Interface	USB 2.0 / 1.1 (calibration data readout)
Pre-Amp Noise „linear“ increase	100 MHz: 3,5 dB; 3 GHz: 4,0 dB, 6 GHz: 4,5 dB	Pre-Amp Gain (typ.) „linear“ falloff	1 MHz: 40,0 dB; 3 GHz: 37,5 dB; 6 GHz: 35,0 dB

Gain Diagram HyperLOG® 4060 X



Horizontal und Vertical Pattern HyperLOG® 40 X Series



Recommended Accessories

Multifunctional Pistol Grip

(strongly recommended)

Highly recommended for our HyperLOG® active antennas. Quick and easy antenna polarization change, guarantees perfectly stable antenna handling.

Order/Art.-No.: 503/012

1 m / 5 m / 10 m SMA Cable

High-quality special SMA cable, connecting test equipment to any HyperLOG® antenna. Customers can choose between three different cables:
• 1 m standard SMA cable (RG316U)
• 5 m low-loss SMA cable (especially low damping)
• 10 m low-loss SMA cable (especially low damping)
All versions: SMA plug (male) / SMA plug (male)

Order/Art.-No.: 501/006 (1 m), 501/008 (5 m), 501/0010 (10 m)

SMA to N Adapter

This special high-quality adapter allows for operating all HyperLOG® antennas with any standard spectrum analyzer equipped with an N connector. This adapter can be used with very high frequencies. Measuring just 30 x 20 mm in size, its nominal impedance is 50 Ohm. Layout: SMA socket (female) / N plug (male).

Order/Art.-No.: 502/009

Recommended Accessories

Miniature Pistol-Grip Tripod

Detachable handle with super-practical miniature tripod mode. The handle can be attached to the back of the unit, and allows for optimal handling and a fixed stand. Strongly recommended for PC use.

Order/Art.-No.: 503/012

Laser Pointer

Laser pointer for pinpointing any RF source, even in bright daylight. Available as 150 mW power version (green laser). Easy to install on top of any HyperLOG® X antenna. Connector and screws included.

Order/Art.-No.: 503/039

Compass

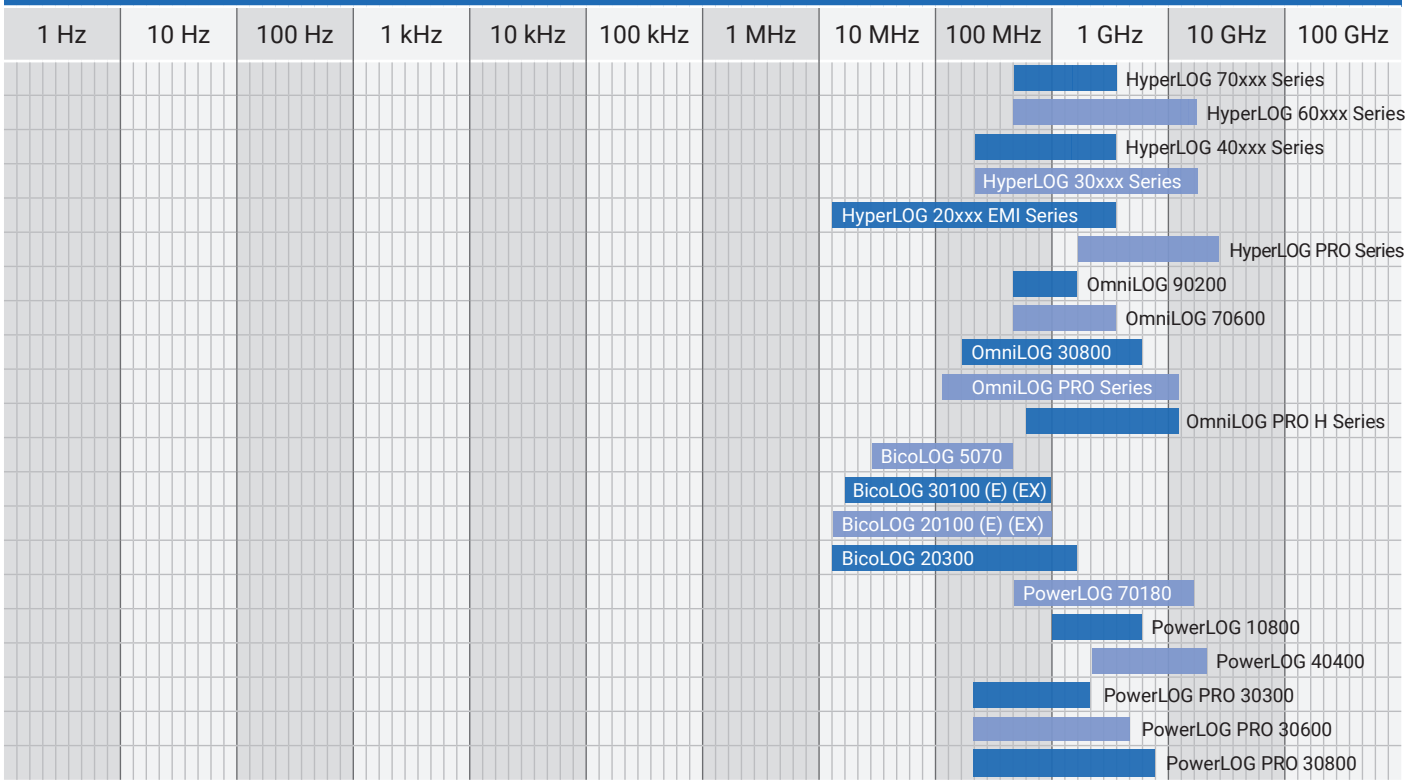
Small ball compass for our HyperLOG® X antennas. Works at any antenna position due to its liquid-filled ball.

Can be used separately or in combination with our laser pointer. Connector and screws included.

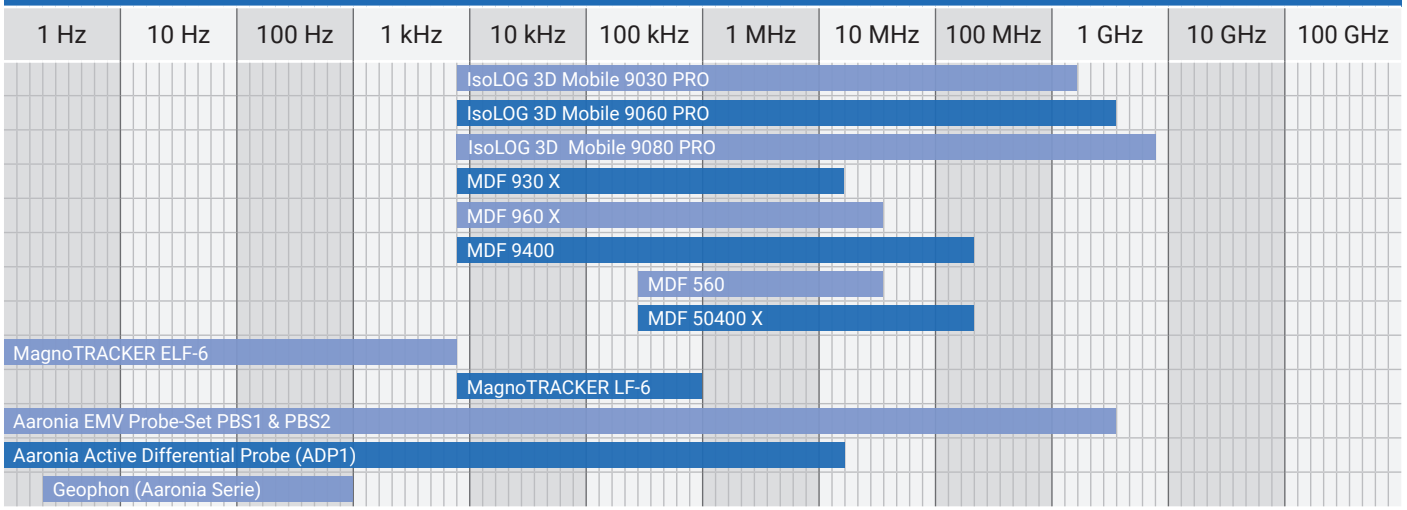
Order/Art.-No.: 503/001

Frequency Overviews

Frequency Overview HyperLOG®, BicoLOG® and PowerLOG® Antennas



Frequency Overview IsoLOG® 3D, MDF, MagnoTRACKER® and Probes



REFERENCES

Selected Aaronia Clients

AARONIA AG
WWW.AARONIA.DE

Government, Military, Aeronautic, Astronautic

- **NATO,** Belgium
- **Department of Defense (DoD),** USA
- **Department of Defence,** Australia
- **Airbus,** Germany
- **Boeing,** USA
- **German Armed Forces,** Germany
- **NASA,** USA
- **Lockheed Martin,** USA
- **Lufthansa,** Germany
- **German Aerospace Center (DLR),** Germany
- **Eurocontrol,** Belgium
- **EADS,** Germany
- **Drug Enforcement Administration (DEA),** USA
- **Federal Bureau of Investigation (FBI),** USA
- **Federal Criminal Police Office (BKA),** Germany
- **Federal Police,** Germany
- **Ministry of Defence,** Netherlands

Research/Development, Science and Universities

- **MIT - Physics Department,** USA
- **California State University,** USA
- **Indonesian Institute of Sience (LIPI),** Indonesia
- **Los Alamos National Laboratory (LANL),** USA
- **University of Bahrain,** Bahrain
- **University of Florida,** USA
- **University of Victoria,** Canada
- **University of Newcastle,** United Kingdom
- **University of Durham,** United Kingdom
- **University Strasbourg,** France
- **University of Sydney,** Australia
- **University of Athen,** Greece
- **University of Munich,** Germany
- **Technical University of Hamburg,** Germany
- **Max-Planck Inst. for Radio Astronomy,** Germany
- **Max-Planck Inst. for Nuclear Physics,** Germany
- **Research Centre Karlsruhe,** Germany

Industry

- **IBM,** Switzerland
- **Intel,** Germany
- **Shell Oil Company,** USA
- **ATI,** USA
- **Microsoft,** USA
- **Motorola,** Brazil
- **Audi,** Germany
- **BMW,** Germany
- **Daimler,** Germany
- **Volkswagen,** Germany
- **BASF,** Germany
- **Siemens AG,** Germany
- **Rohde & Schwarz,** Germany
- **Infineon,** Austria
- **Philips,** Germany
- **ThyssenKrupp,** Germany
- **EnBW (Energie Baden-Württemberg),** Germany
- **CNN,** USA
- **Duracell,** USA
- **German Telekom,** Germany
- **Bank of Canada,** Canada
- **NBC News,** USA
- **Sony,** Germany
- **Anritsu,** Germany
- **Hewlett-Packard,** Germany
- **Bosch,** Germany
- **Mercedes-Benz,** Austria
- **Osram,** Germany
- **DEKRA,** Germany
- **AMD,** Germany
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- **Infineon Technologies,** Germany
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