

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

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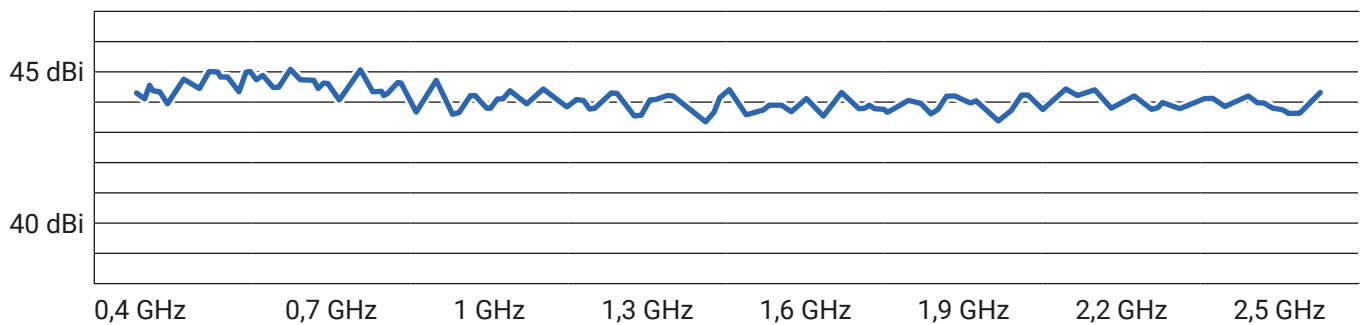
MADE IN GERMANY

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.) | < 1:2 |
| 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 |

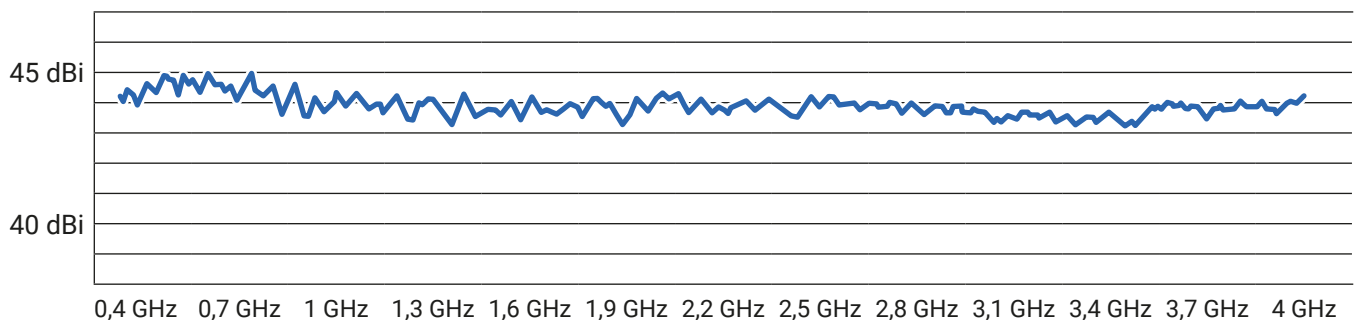
Gain Diagram HyperLOG® 4025 X



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.) | < 1:2 |
| 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

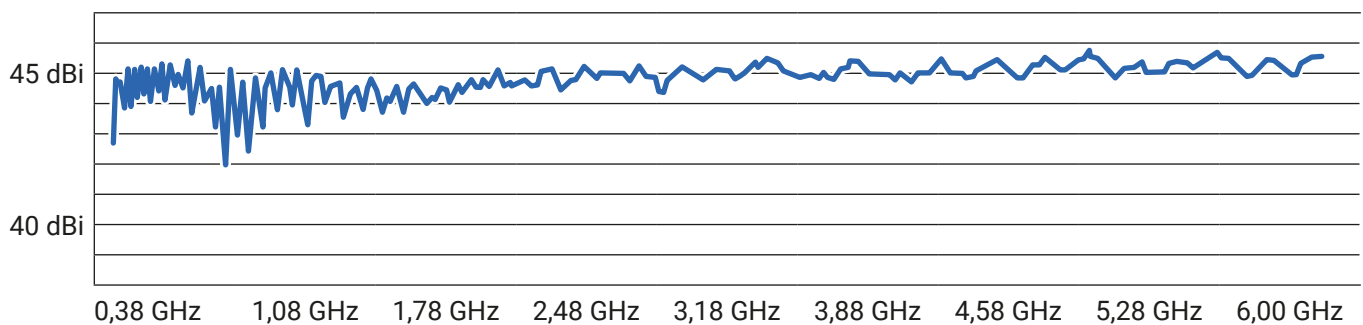


Specifications

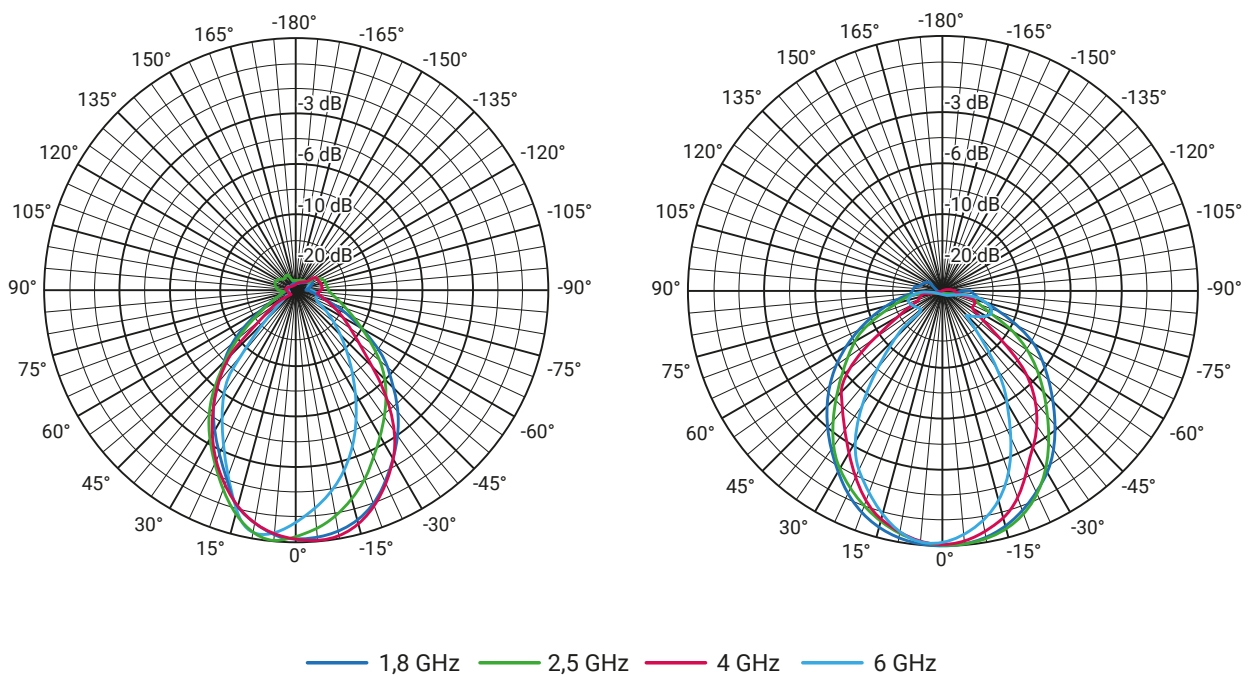
HyperLOG® 4060 X

| | | | |
|---------------------------------|--|--------------------------------------|---|
| 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.) | < 1:2 |
| 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.: 282

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.: 771 (1 m), 772 (5 m), 773 (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.: 770

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.: 280

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.: 791 (150 mW)



Compass

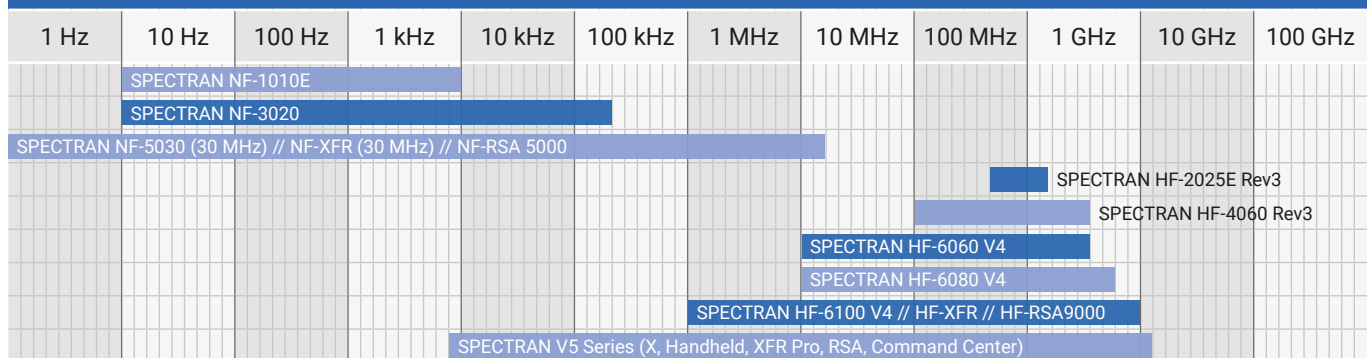
Small ball compass for our HyperLOG® X antennas. Works at any antenna position due to its liquid-filled ball.

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

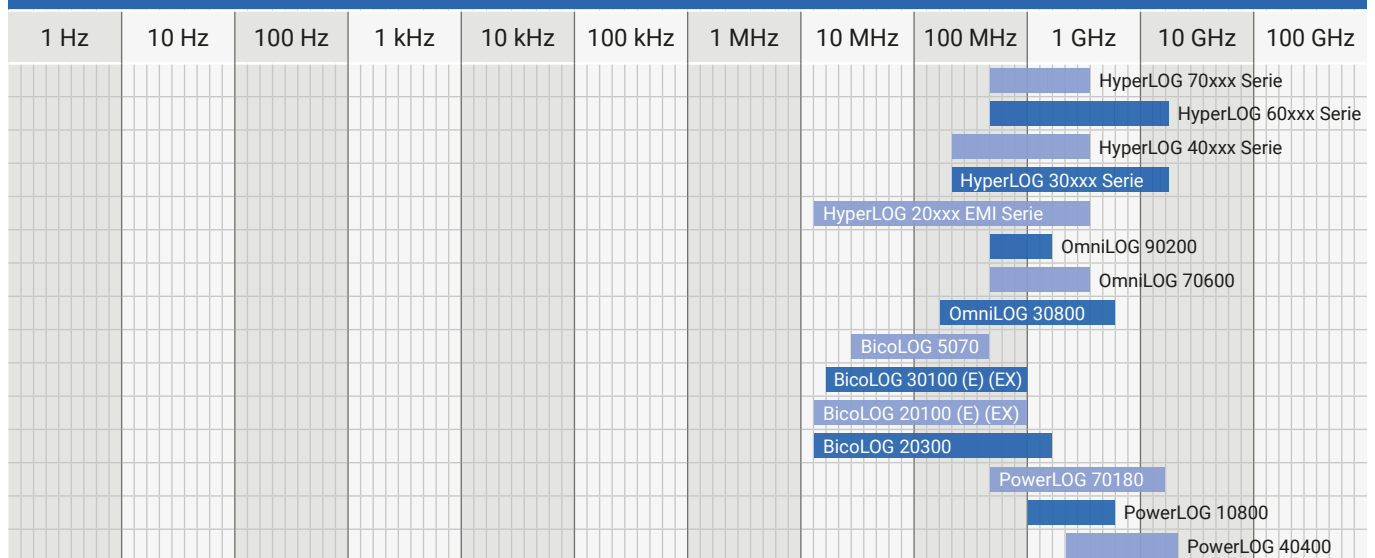
Order/Art.-No.: 795

Frequency Overviews

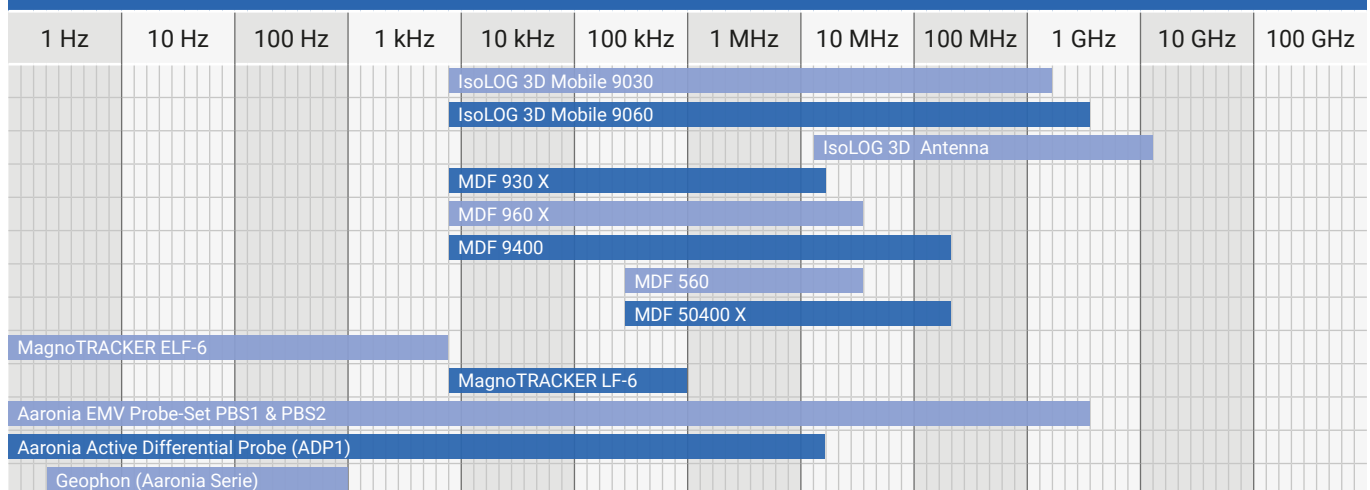
Frequency Overview SPECTRAN® Spectrum Analyzers



Frequency Overview HyperLOG®, BicoLOG® and PowerLOG® Antennas



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



REFERENCES



Selected List of Aaronia Clients

Government, Military, Aero- and 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 Science (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
- Keysight, China
- Infineon Technologies, Germany
- Philips Semiconductors, Germany
- Hyundai Europe, Germany
- VIAVI, Korea
- Wilkinson Sword, Germany
- IBM Deutschland, Germany
- Nokia-Siemens Networks, Germany



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