

Product Datasheet - Technical Specifications



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ACTIVE BROADBAND ANTENNAS

HYPERLOG[®]

60 X SERIES

High-end active broadband antenna with up to 20 GHz and high gain (45 dBi)



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



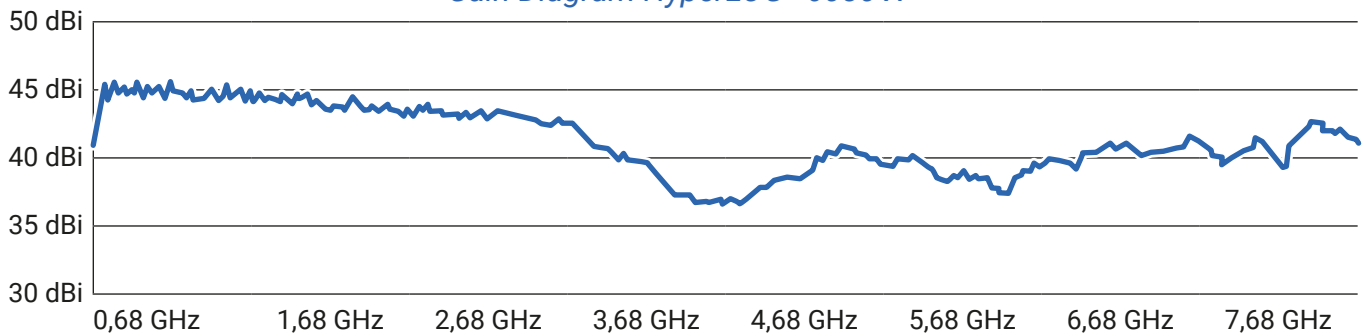
MADE IN GERMANY

Specifications

HyperLOG® 6080 X

Dimensions [L x W x D]	390 x 200 x 25 mm	Nominal Impedance	50 Ohm
Weight	400 g	Calibration Points	733 (10 MHz steps)
Design	Active log-periodic	VSWR (typ.)	< 2
Gain (typ.)	45 dBi	Tripod Socket	1/4"
RF Connection	SMA (f)	Warranty	2 years
Frequency Range	680 MHz – 8 GHz (down to 100 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 dB, 6 GHz: 4,5 dB	Pre-Amp Gain (typ.) „linear“ falloff	1 MHz: 40 dB; 3 GHz: 37,5 dB; 6 GHz: 35 dB

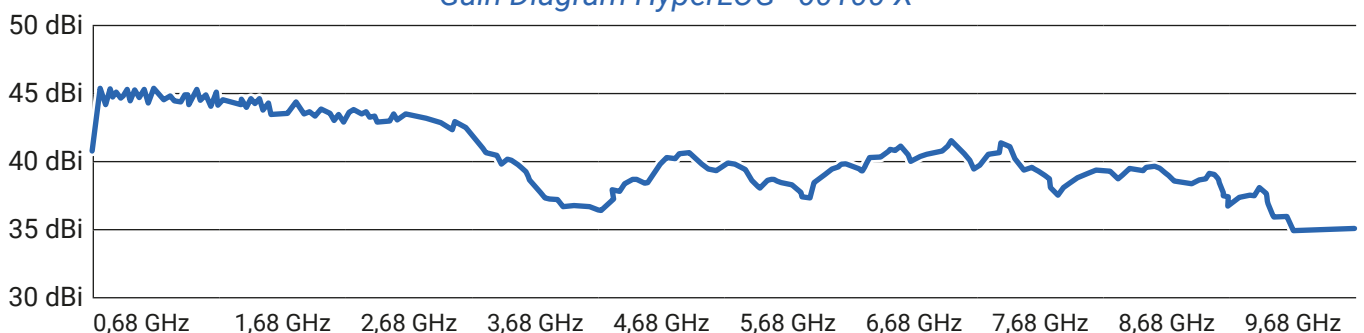
Gain Diagram HyperLOG® 6080 X



HyperLOG® 60100 X

Dimensions [L x W x D]	390 x 200 x 25 mm	Nominal Impedance	50 Ohm
Weight	400 g	Calibration Points	933 (10 MHz steps)
Design	Active log-periodic	VSWR (typ.)	< 2
Gain (typ.)	45 dBi	Tripod Socket	1/4"
RF Connection	SMA (f)	Warranty	2 years
Frequency Range	680 MHz – 10 GHz (down to 100 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 dB, 6 GHz: 4,5 dB	Pre-Amp Gain (typ.) „linear“ falloff	1 MHz: 40 dB; 3 GHz: 37,5 dB; 6 GHz: 35 dB

Gain Diagram HyperLOG® 60100 X

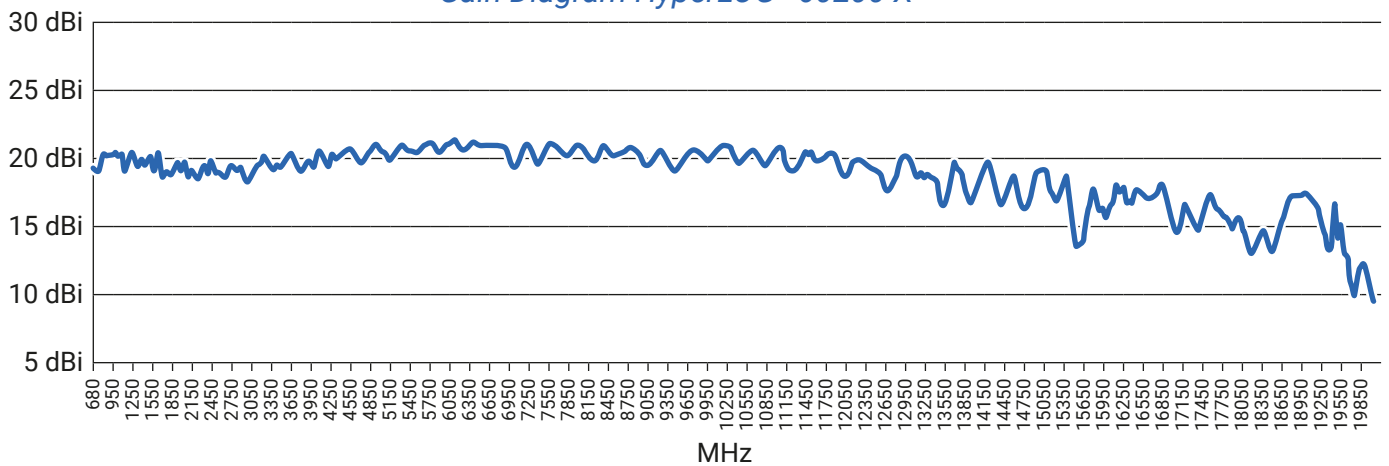


Specifications

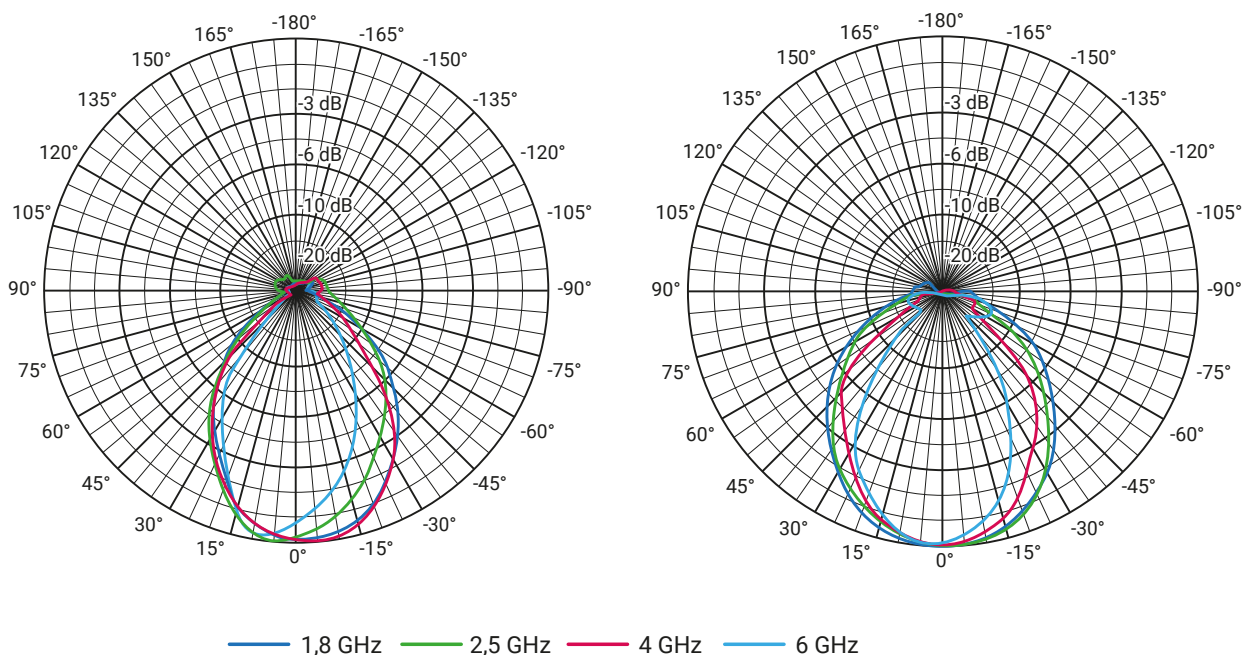
HyperLOG® 60200 X

Dimensions [L x W x D]	390 x 200 x 25 mm	Nominal Impedance	50 Ohm
Weight	400 g	Calibration Points	389 (50 MHz steps)
Design	Active log-periodic	VSWR (typ.)	< 2
Gain (typ.)	19 dBi	Tripod Socket	1/4"
RF Connection	SMA (f)	Warranty	2 years
Frequency Range	680 MHz – 20 GHz (down to 100 MHz with limited directivity)	Interface	USB 2.0 / 1.1 (calibration data readout)
Pre-Amp Noise	2,5 dB	Pre-Amp gain (typ.)	14 dB

Gain Diagram HyperLOG® 60200 X



Horizontal und Vertical Pattern HyperLOG® 60 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



Heavy-Duty Case PRO

Shock-resistant, heavy-duty plastic version with padding. Offers room for HyperLOG® X antennas and 2 SPECTRAN units, including accessories. A must-have for professional or outdoor use.

Order/Art.-No.: 504/001 *

* Picture shows optional items

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



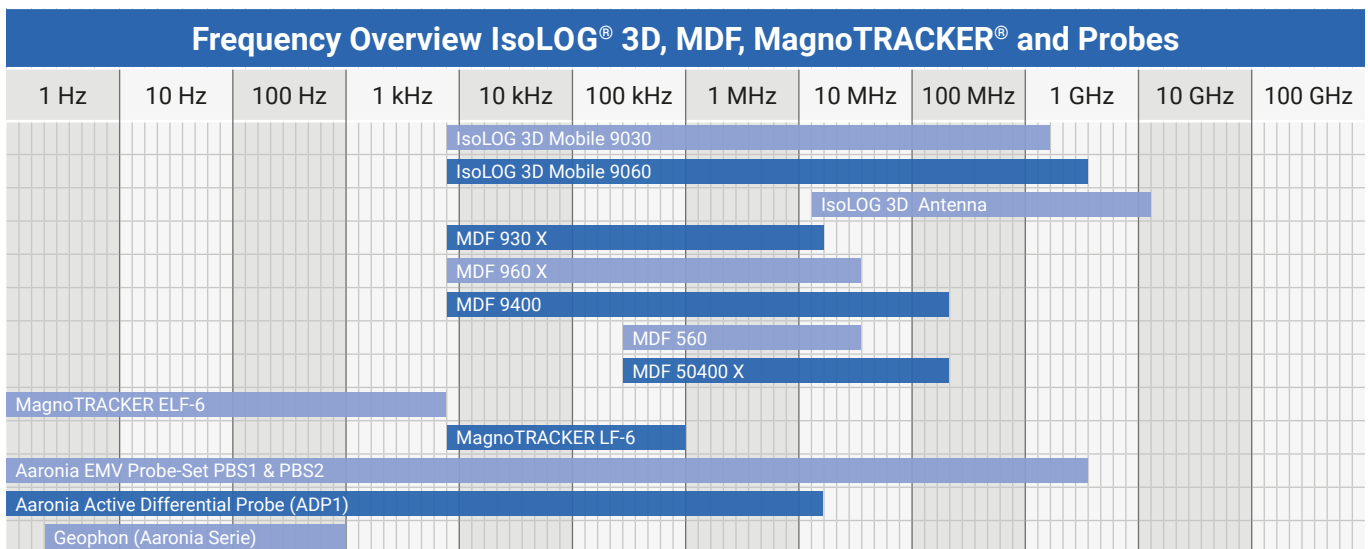
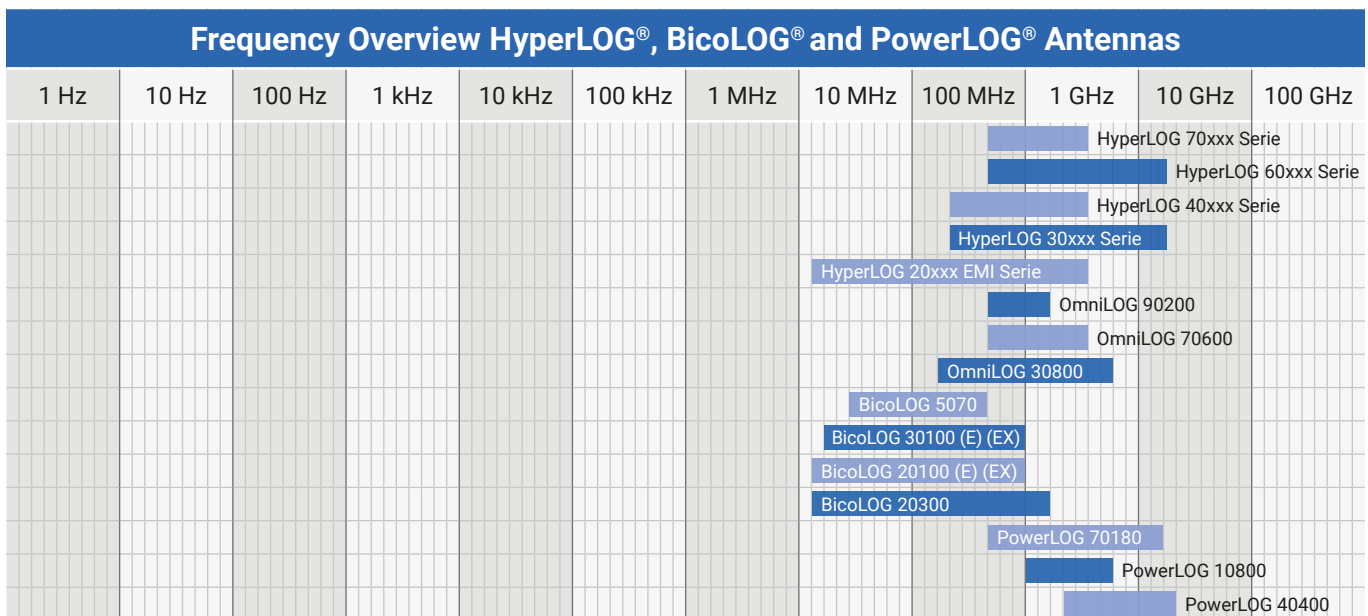
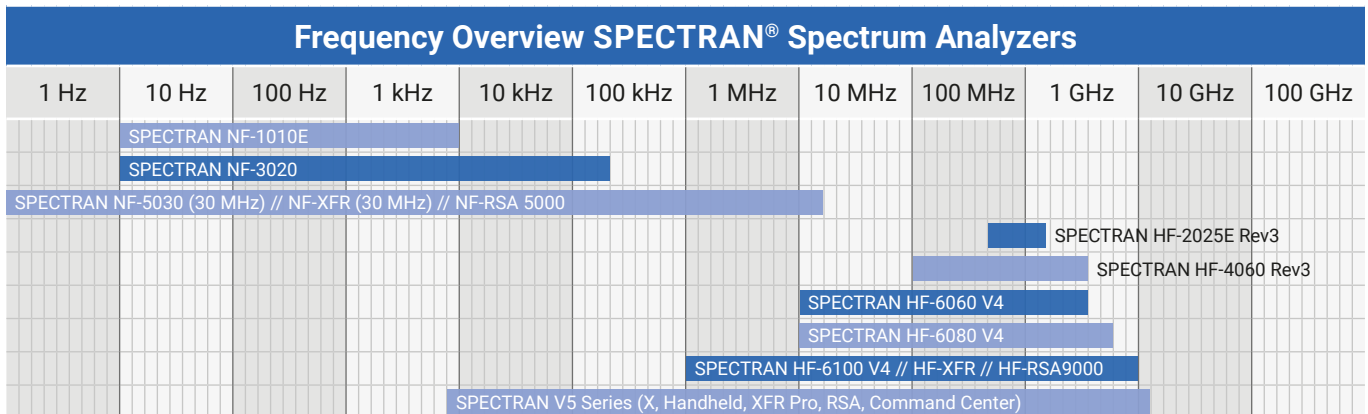
Compass

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



REFERENCES



Selected Aaronia Clients

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 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

