

ACTIVE BROADBAND ANTENNAS

HYPERLOG[®]

70 X SERIES

High-end active broadband antenna with up to 6 GHz and high gain (44 dBi)



- ✓ Compatible with any spectrum analyzer or oscilloscope
- ✓ Ultra-high gain (44 dBi)

- ✓ Battery- or power supply-operated
- ✓ Suitable for open-field or lab application

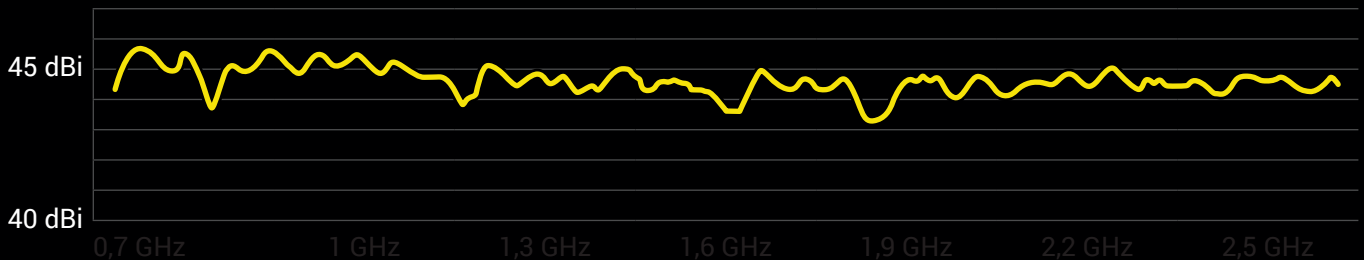


Specifications

HyperLOG® 7025 X

| | | | |
|---------------------------------|---|--------------------------------------|---|
| Dimensions [L x W x D] | 390 x 200 x 25 mm | Nominal Impedance | 50 Ohm |
| Weight | 400 g | Calibration Points | 183 (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 | 700 MHz – 2,5 GHz (down to 100 MHz with limited directivity) | Interface | USB 2.0 / 1.1 (calibration data readout) |
| Pre-Amp Noise „linear“ increase | 100 MHz: 3,50 dB; 2,5 GHz: 3,91 dB | Pre-Amp Gain (typ.) „linear“ falloff | 1 MHz: 40 dB; 2,5 GHz: 38 dB |

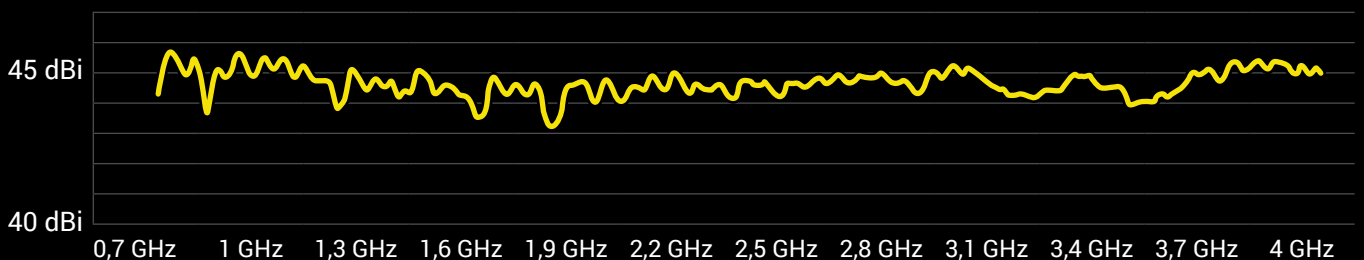
Gain Diagram HyperLOG® 7025 X



HyperLOG® 7040 X

| | | | |
|---------------------------------|---|--------------------------------------|---|
| Dimensions [L x W x D] | 390 x 200 x 25 mm | Nominal Impedance | 50 Ohm |
| Weight | 400 g | Calibration Points | 333 (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 | 700 MHz – 4 GHz (down to 100 MHz with limited directivity) | Interface | USB 2.0 / 1.1 (calibration data readout) |
| Pre-Amp Noise „linear“ increase | 100 MHz: 3,50 dB; 4 GHz: 4,15 dB | Pre-Amp Gain (typ.) „linear“ falloff | 1 MHz: 40 dB; 4 GHz: 36,5 dB |

Gain Diagram HyperLOG® 7040 X

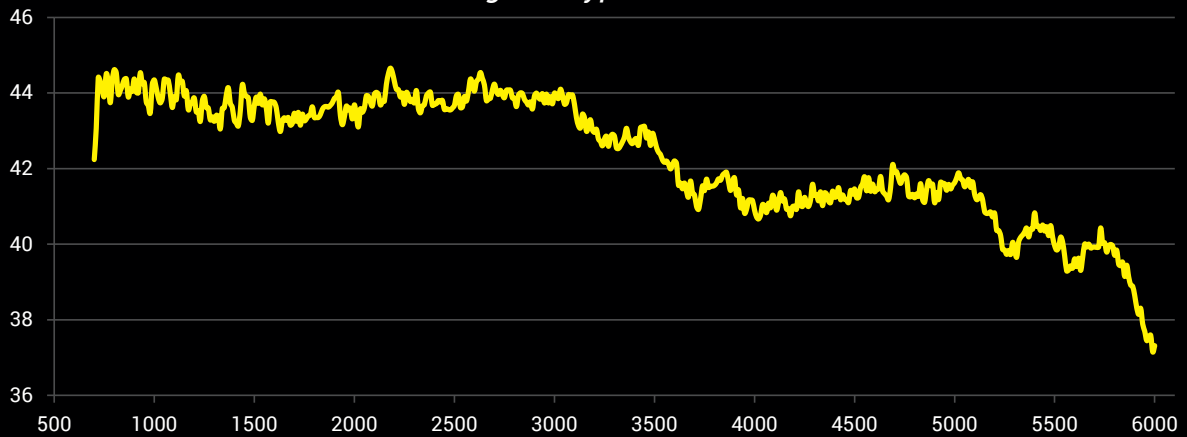


Specifications

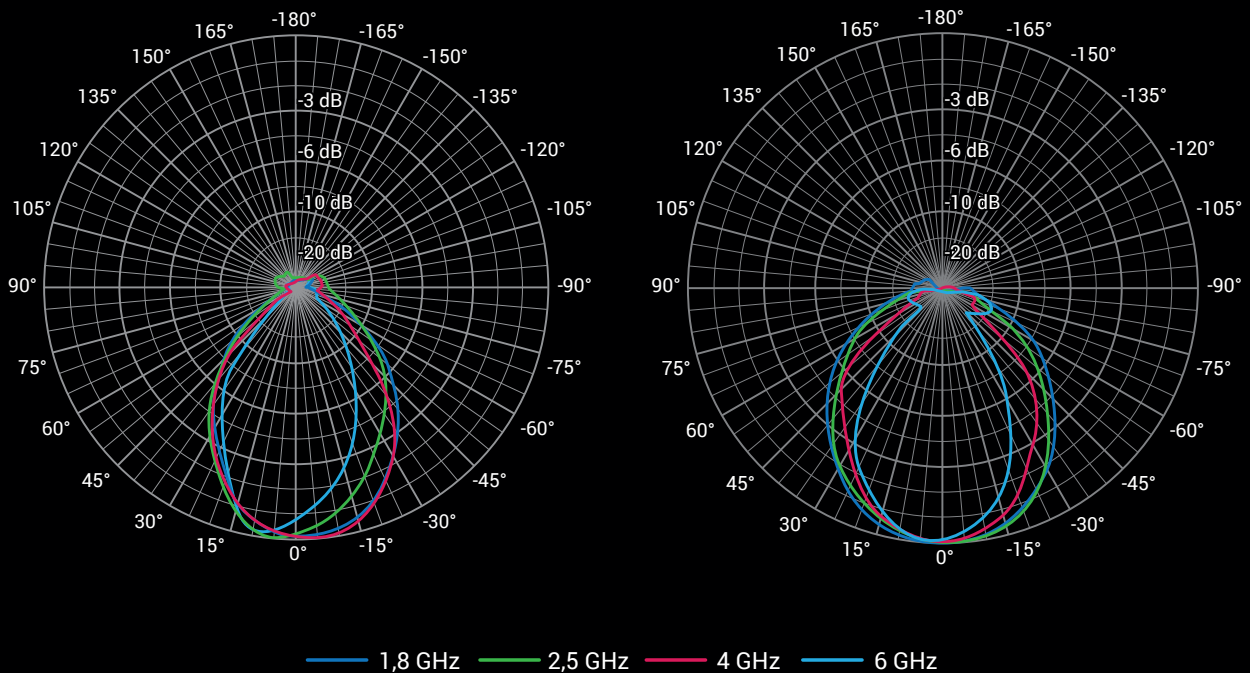
HyperLOG® 7060 X

| | | | |
|---------------------------------|---|--------------------------------------|---|
| Dimensions [L x W x D] | 390 x 200 x 25 mm | Nominal Impedance | 50 Ohm |
| Weight | 400 g | Calibration Points | 533 (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 | 700 MHz – 6 GHz (down to 120 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® 7060 X



Horizontal und Vertical Pattern HyperLOG® 70 X Series



Recommended Accessories



Multifunctional Pistol Grip

(strongly recommended)

Highly recommended for our HyperLOG® 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

GPS Logger

High end GPS logger including antenna position, speed and altitude information. 3D compass, acceleration and tilt sensor, altimeter and pressure sensor.

Order/Art.-No.: 503/035



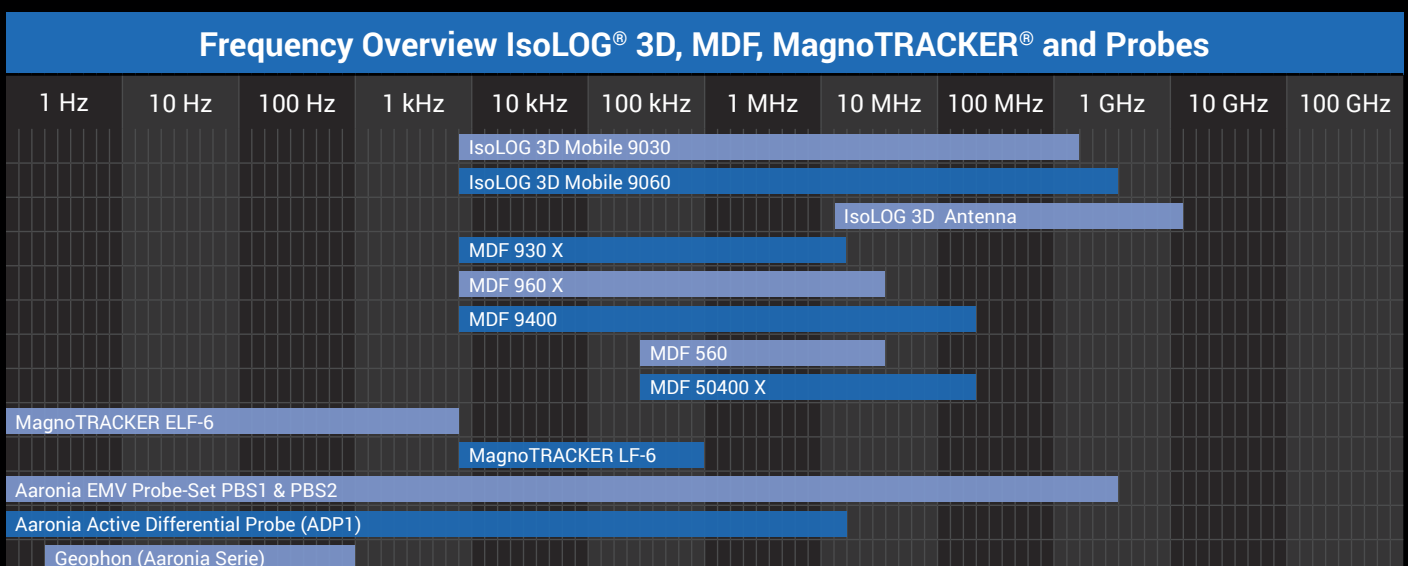
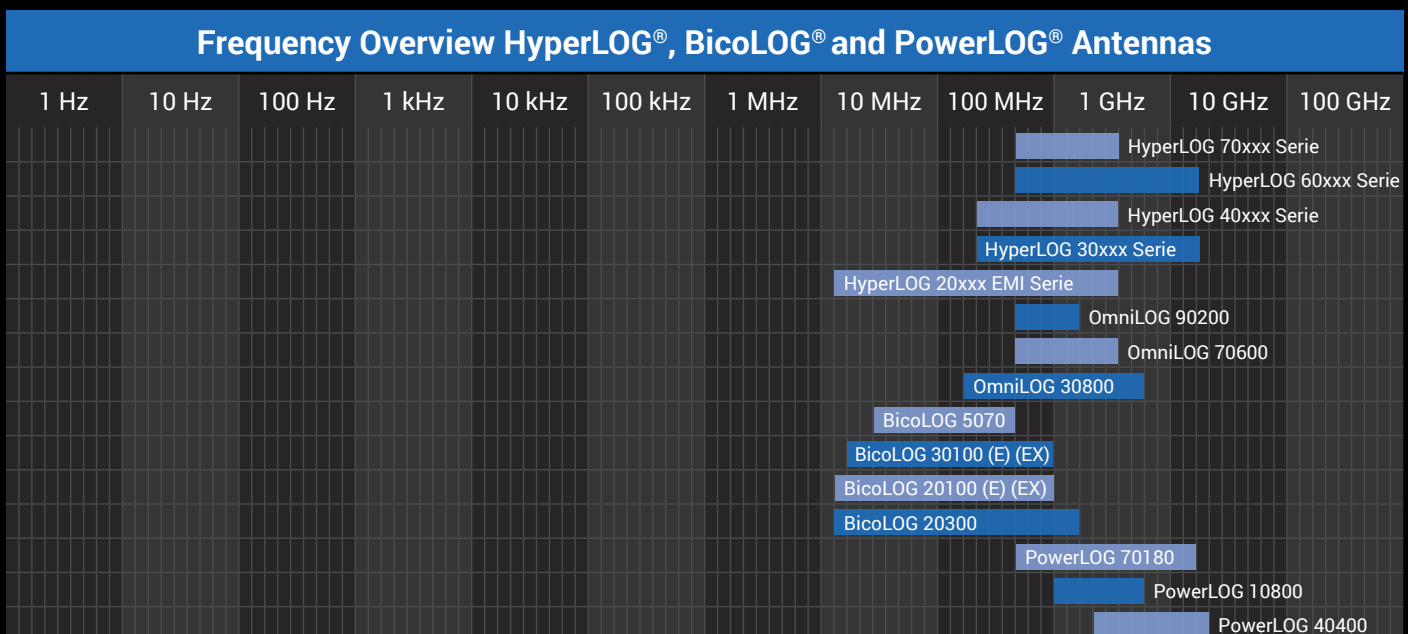
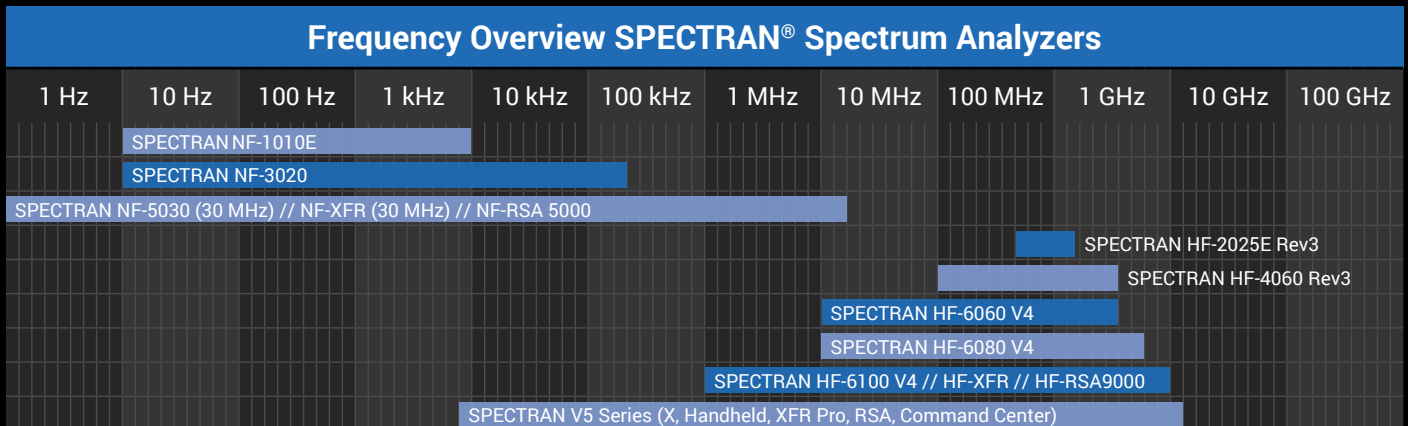
Compass

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 or GPS-Logger. Connector and screws included.

Order/Art.-No.: 503/001

Frequency Overviews



References



Selected Aaronia Clients

Government, Military, Aeronautic, Astronautic

- NATO, Belgium
- Department of Defense, USA
- Department of Defense, Australia
- Airbus, Germany
- Boeing, USA
- Bundeswehr, Germany
- NASA, USA
- Lockheed Martin, USA
- Lufthansa, Germany
- DLR, Germany
- Eurocontrol, Belgium
- EADS, Germany
- DEA, USA
- FBI, USA
- BKA, Germany
- Federal Police, Germany
- Ministry of Defense, Netherlands

Research/Development, Science and Universities

- MIT – Physics Department, USA
- California State University, USA
- Indonesian Institute of Sciences, Indonesia
- Los Alamos National Laboratory, 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 Athens, 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, Germany
- CNN, USA
- Duracell, USA
- German Telekom, Germany
- Bank of Canada, Canada
- NBC News, USA
- Sony, Germany
- Anritsu, Germany
- Hewlett Packard, Germany
- Robert 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

