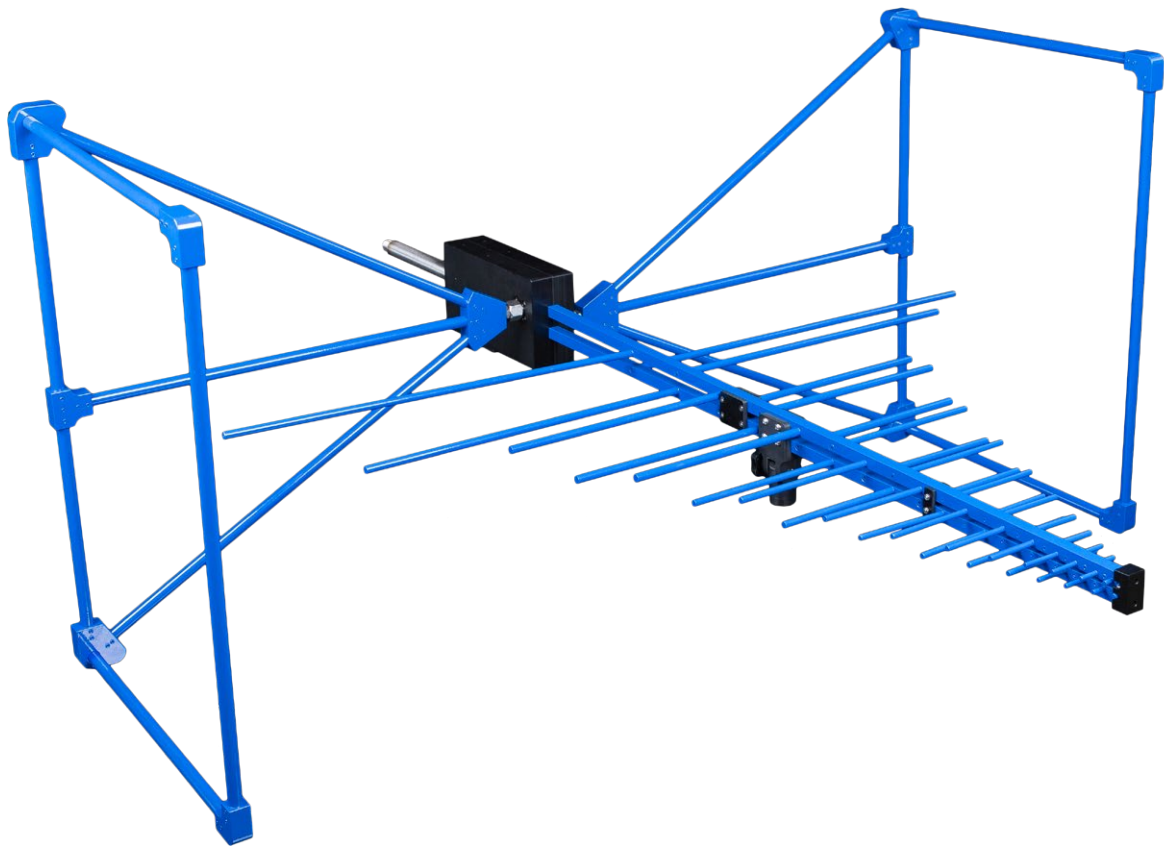


HyperLOG® EMI Series

# EMC Reference Antennas

EMC Broadband antennas for the complete frequency range from 20MHz to 6GHz



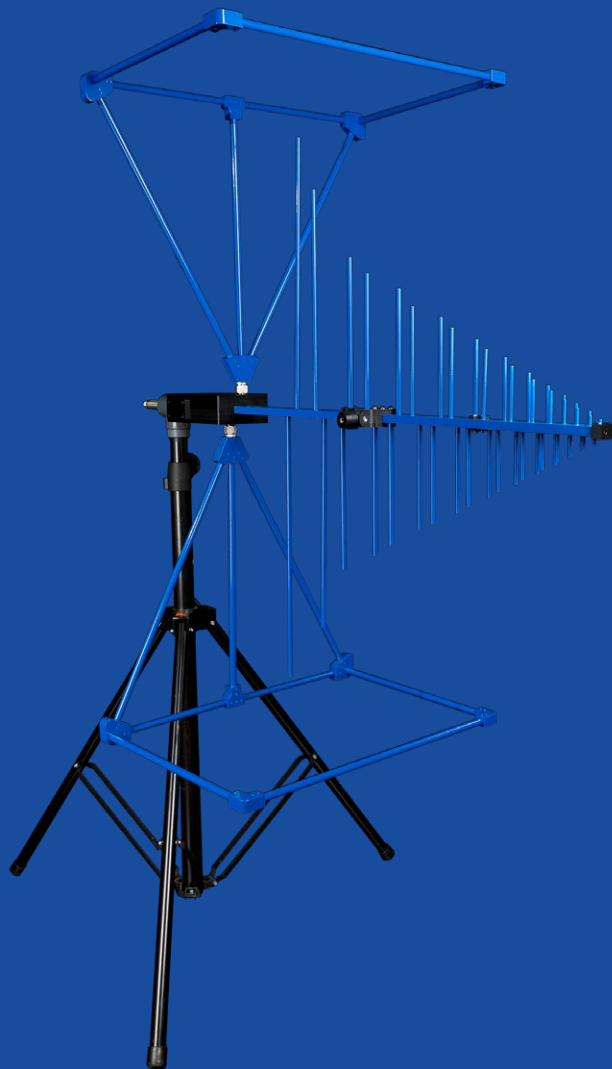
Reference Antennas with 0,3dB accuracy

Compatible with any Spectrum Analyzer

Perfect for Pre- and Full-Compliance Tests

# Highlights

- ✓ Perfect for EMC/EMI pre- and full-compliance tests and immunity measurements
- ✓ Extremely high antenna accuracy of 0,3dB
- ✓ Works with any spectrum analyzer brand
- ✓ Including detailed specific calibration data
- ✓ Max. input power: 310W AM
- ✓ Dimensions(L/W/D): 1300 x 1170 x 595 mm
- ✓ Weight: 6,5kg
- ✓ Made in Germany



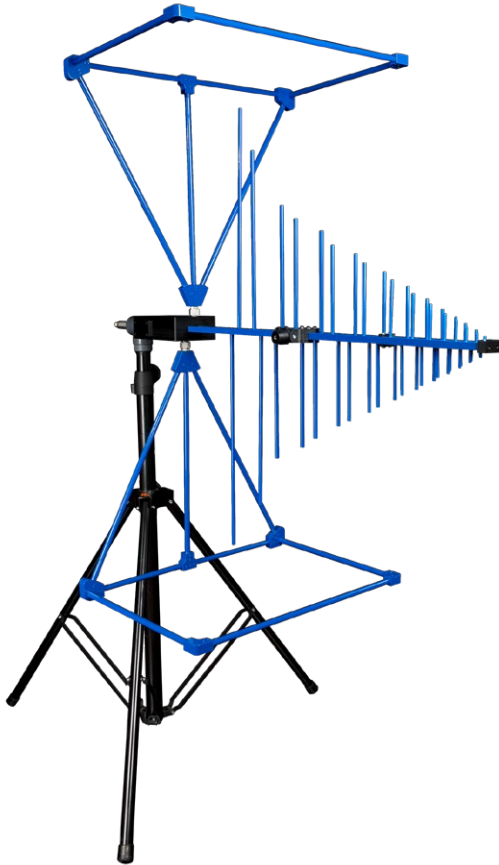
Gewerbegebiet Aaronia AG II , DE-54597 Strickscheid  
Tel.: +49(0)6556-9019-355 Fax: +49(0)6556-93034  
www.aaronia.com E-Mail: mail@aaronia.de



**MADE IN GERMANY**

# HyperLOG<sup>®</sup> EMI Series

The ultimate EMC / EMI pre-compliance antennas



## Lower Error-Rates

By using the HyperLOG EMI antennas, the common EMI and EMC measurement error-rates, which show up by switching between different test antennas, are avoided. This is because you have only to use one antenna for the complete frequency range instead of two or more antennas. This saves significant costs since the measuring time is reduced drastically.

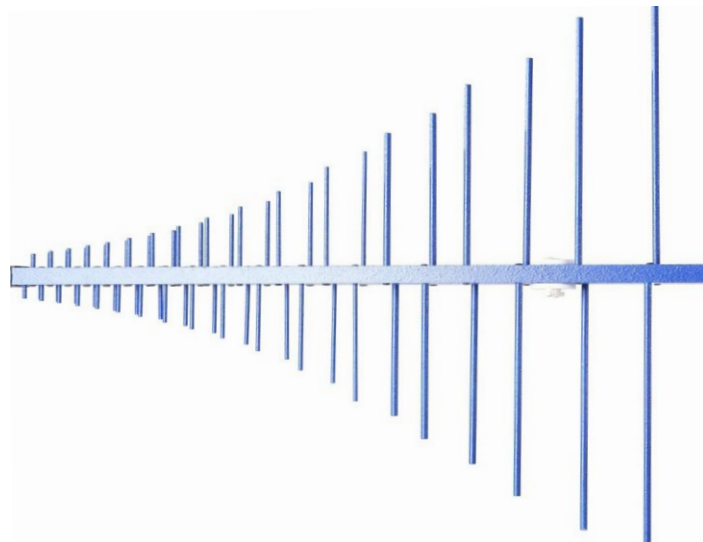
The HyperLOG EMI series can also be used as a powerful broadcasting antenna with up to 310 watts. This antennas are suitable even for immunity measurements, where very high field strengths are needed by more than 10 V/m.

## Introduction

Aaronia's HyperLOG EMI antennas are the ultimate EMC / EMI pre-compliance test antennas with unmatched high accuracy. These antennas offer a very high gain over the full frequency range.

The HyperLOG EMI is Aaronia's latest antenna development and combines the advantages of a bi-conical antenna and those of a log periodic antenna in a single high end EMC/EMI antenna.

Furthermore the HyperLOG EMI series offer an extremely high accuracy of 0.3dB over the full specified frequency range and therefore can even be used as reference antenna.



# Antenna Versions

## And technical specifications

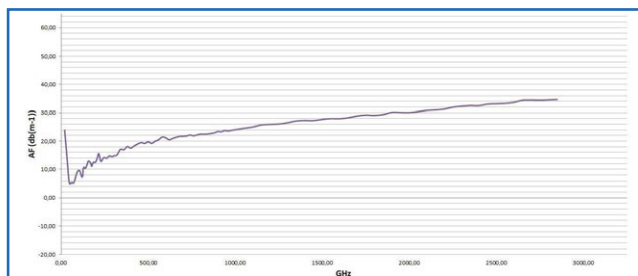
### HyperLOG® 20300 EMI

Frequency Range	20MHz - 3GHz
Design	Biconical & LogPer
Max. input power	310W AM
Immunity test field strength	10V/m
Nominal impedance	50 Ohm
Accuracy	0,3dB
VSWR (typ.)	<2:1
Gain (typ.)	8dBi
RF Output	N female
Dimensions	1300x1170x595 mm
Weight	6,5kg
Warranty	2 years

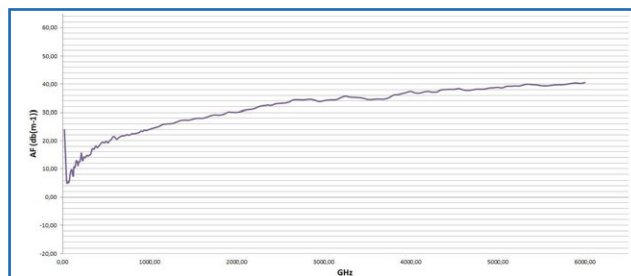
### HyperLOG® 20600 EMI

Frequency Range	20MHz - 3GHz
Design	Biconical & LogPer
Max. input power	310W AM
Immunity test field strength	10V/m
Nominal impedance	50 Ohm
Accuracy	0,3dB
VSWR (typ.)	<2:1
Gain (typ.)	8dBi
RF Output	N female
Dimensions	1300x1170x595 mm
Weight	6,5kg
Warranty	2 years

### Antenna factor HyperLOG 20300 EMI

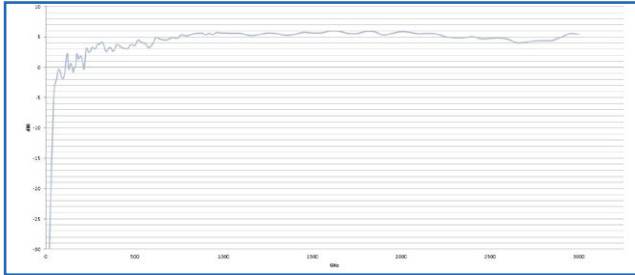


### Antenna factor HyperLOG 20600 EMI

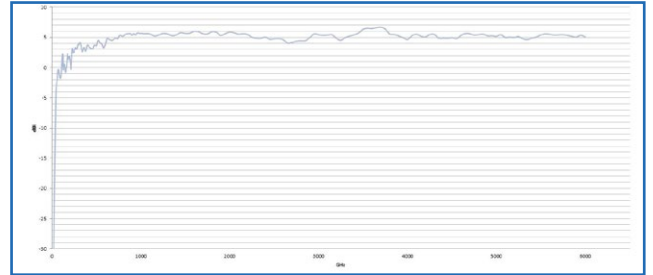


# Technical Details

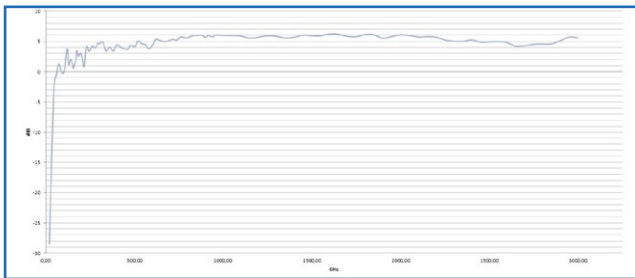
### Gain Diagram HyperLOG 20300 EMI (3m)



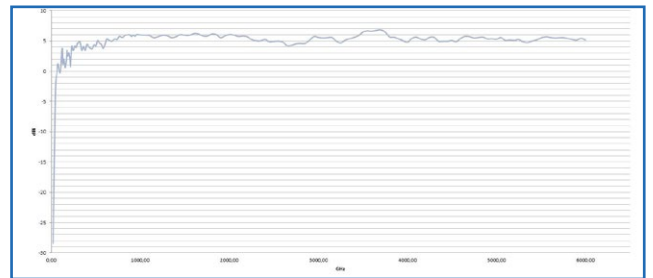
### Gain Diagram HyperLOG 20600 EMI (3m)



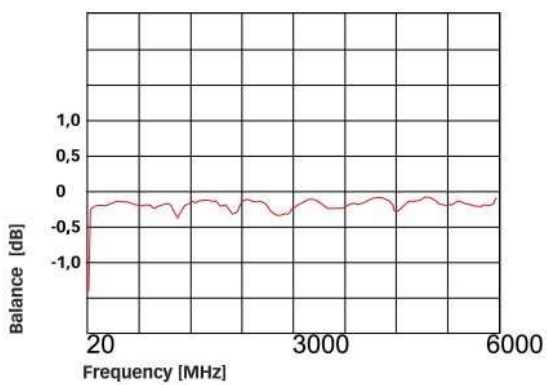
### Gain Diagram HyperLOG 20300 EMI (10m)



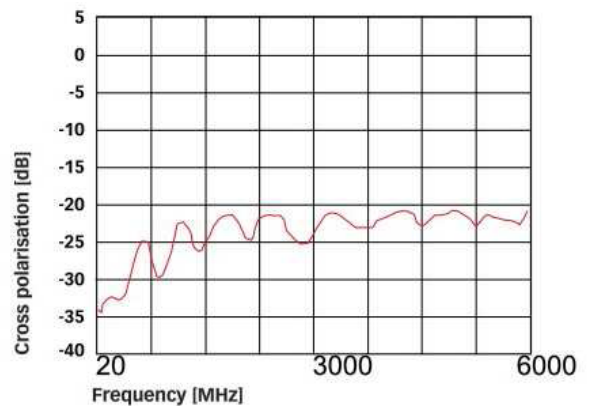
### Gain Diagram HyperLOG 20600 EMI (10m)



### Typical Balance / Unbalance



### Typical Cross Polarization



# Accessories

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

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

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

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This special adapter allows operation of all HyperLOG EMI Antennas with any spectrum-analyzer with SMA connector (like the Aaronia SPECTRAN series).

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

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Perfect for pinpointing any RF source even at bright daylight.

Including connector and all needed screws. Easy to connect on top of any HyperLOG EMI antenna.

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



## Heavy tripod

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Height adjustable, and with very high stability. STRONGLY recommended for use with any HyperLOG EMI antennas!

Order/Art.-No.: 283

# References



## Cross-Section of 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
- Indonesien Institute of Sience, Indonesia
- Los Alamos National Labratory, 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

- APPLE, USA
- 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
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- Philips Semiconductors, Germany
- Hyundai Europe, Germany
- VIAVI, Korea
- Wilkinson Sword, Germany
- IBM Deutschland, Germany
- Nokia-Siemens Networks, Germany



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