

Frequency ranges of Aaronia HyperLOG® & BicoLOG® EMC precision measurement and transmission antennas

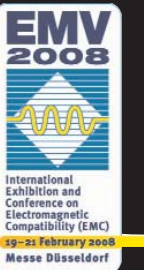
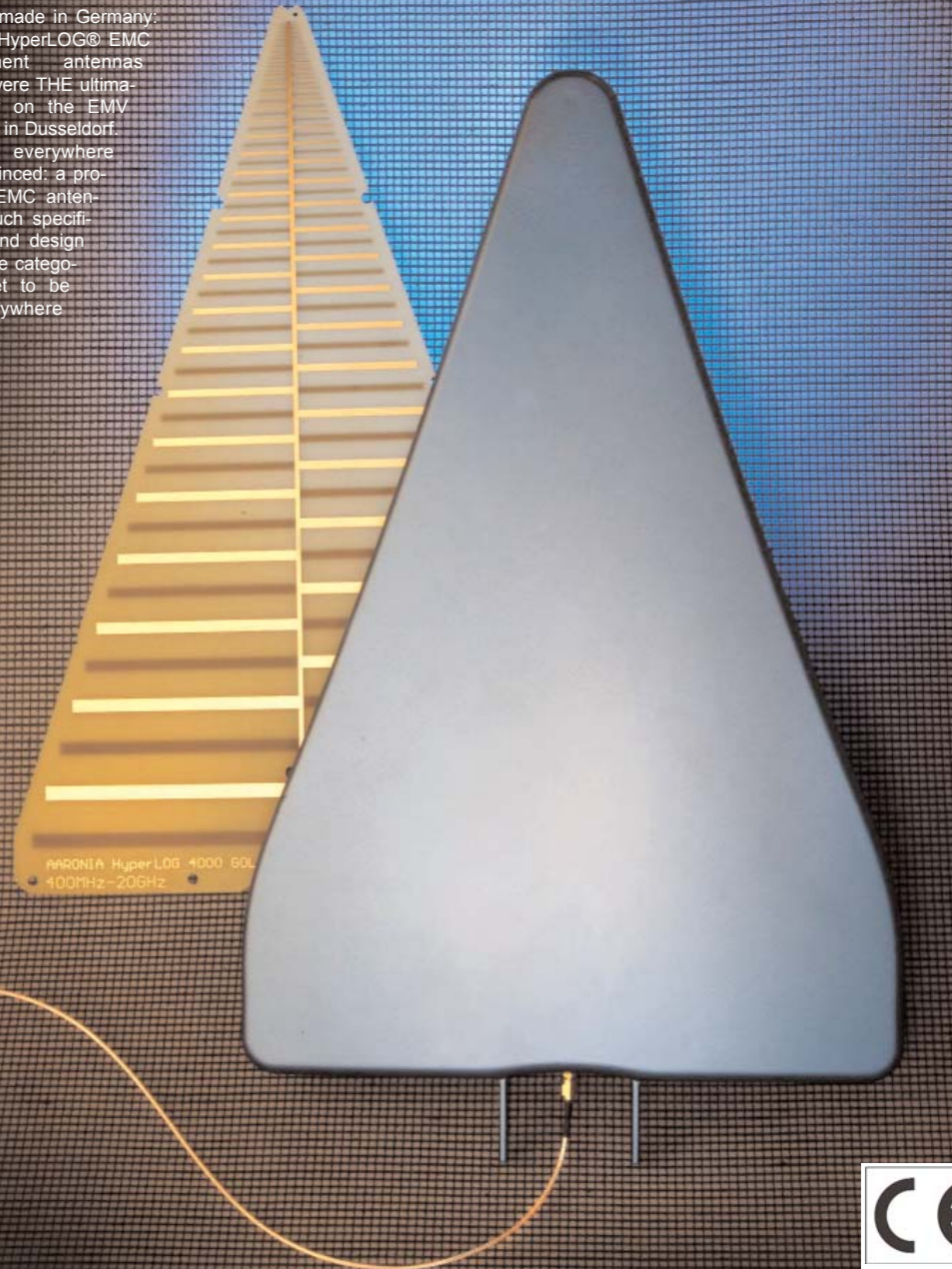
	20MHz	30MHz	50MHz	380MHz	400MHz	680MHz	700MHz	1GHz	2,5GHz	4GHz	6GHz	8GHz	10GHz	18GHz	Total	Material	Application examples for usable frequency range
HyperLOG® 7025	No	No	No	Yes	No	No	Yes	Yes	Yes	No	No	No	No	No	700MHz-2,5GHz	FR4	GSM900, GPS, DECT, GSM1800, UMTS, microwave ovens, WLAN, Bluetooth
HyperLOG® 7040	No	No	No	No	No	No	Yes	Yes	Yes	Yes	No	No	No	No	700MHz-4GHz	FR4	GSM900, GPS, DECT, GSM1800, UMTS, microwave ovens, WLAN, Bluetooth, airport Radar
HyperLOG® 7060	No	No	No	No	No	No	Yes	Yes	Yes	Yes	Yes	No	No	No	700MHz-6GHz	FR4	GSM900, GPS, DECT, GSM1800, UMTS, microwave ovens, WLAN, Bluetooth, airport Radar, 5,8Ghz WLAN
HyperLOG® 6080	No	No	No	No	No	Yes	Yes	Yes	Yes	Yes	Yes	Yes	No	No	680MHz-8GHz	Teflon	GSM900, GPS, DECT, GSM1800, UMTS, microwave ovens, WLAN, Bluetooth, airport Radar, 5,8Ghz WLAN, radio links
HyperLOG® 60100	No	No	No	No	No	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	No	680MHz-10GHz	Teflon	GSM900, GPS, DECT, GSM1800, UMTS, microwave ovens, WLAN, Bluetooth, airport Radar, 5,8Ghz W-Lan, radio links, weather Radar
HyperLOG® 60180	No	No	No	No	No	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	680MHz-18GHz	Teflon	GSM900, GPS, DECT, GSM1800, UMTS, microwave ovens, WLAN, Bluetooth, airport Radar, 5,8Ghz W-Lan, radio links, weather Radar, various satellite services
HyperLOG® 4025	No	No	No	No	Yes	Yes	Yes	Yes	Yes	No	No	No	No	No	400MHz-2,5GHz	FR4	70cm HAM Radio, GSM900, GPS, DECT, GSM1800, UMTS, microwave ovens, WLAN, Bluetooth
HyperLOG® 4040	No	No	No	No	Yes	Yes	Yes	Yes	Yes	Yes	No	No	No	No	400MHz-4GHz	FR4	70cm HAM Radio, GSM900, GPS, DECT, GSM1800, UMTS, microwave ovens, WLAN, Bluetooth, airport Radar
HyperLOG® 4060	No	No	No	No	Yes	Yes	Yes	Yes	Yes	Yes	Yes	No	No	No	400MHz-6GHz	FR4	70cm HAM Radio, GSM900, GPS, DECT, GSM1800, UMTS, microwave ovens, WLAN, Bluetooth, airport Radar, 5,8Ghz, WLAN
HyperLOG® 3080	No	No	No	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	No	No	380MHz-8GHz	Teflon	TETRA, 70cm HAM Radio, GSM900, GPS, DECT, GSM1800, UMTS, microwave ovens, WLAN, Bluetooth, airport Radar, 5,8Ghz WLAN, radio links
HyperLOG® 30100	No	No	No	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	No	380MHz-10GHz	Teflon	TETRA, 70cm HAM Radio, GSM900, GPS, DECT, GSM1800, UMTS, microwave ovens, WLAN, Bluetooth, airport Radar, 5,8Ghz WLAN, radio links, weather Radar
HyperLOG® 30180 <small>incl. ISO DKD calibration certificate!</small>	No	No	No	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	380MHz-18GHz	Teflon	TETRA, 70cm HAM Radio, GSM900, GPS, DECT, GSM1800, UMTS, microwave ovens, WLAN, Bluetooth, airport Radar, 5,8Ghz WLAN, radio links, weather Radar etc.
BicoLOG® 5070	No	No	Yes	Yes	Yes	Yes	Yes	No	No	No	No	No	No	No	50MHz-700MHz	FR4	ISM433, ISM866, radio/TV broadcast (UKW, VHF), 70cm HAM Radio
BicoLOG® 30100	No	Yes	Yes	Yes	Yes	Yes	Yes	Yes	No	No	No	No	No	No	30MHz-1GHz	FR4	VHF band, ISM433, ISM868, radio/TV broadcast (VHF, UHF), TETRA, 70cm HAM Radio, GSM900
BicoLOG® 20100 <small>incl. calibration certificate!</small>	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	No	No	No	No	No	No	20MHz-1GHz	FR4	Citizen band, VHF band, ISM433, ISM868, radio/TV broadcast (VHF, UHF), TETRA, 70cm HAM Radio, GSM900
NEW BicoLOG® 20300 <small>incl. calibration certificate!</small>	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	No	No	No	No	No	20MHz-3GHz	FR4	Citizen band, VHF band, ISM433, ISM868, radio/TV broadcast (VHF, UHF), GSM900, CT1+, GSM1800, UMTS, WLAN

The log periodic antennas of the HyperLOG® series are suitable for interference and direct radiation measurements. Their distinctive broadband characteristics allow measurements in the complete specified frequency range without range switching. They are especially suitable for measurements according to the following standards and procedures: **CISPR, VDE, MIL, VG, EN 55011, EN 55013, EN 55015, EN 55022, MIL-Std-461.**

© Aaronia AG, D-54597 Euscheid, www.aaronia.de, Tel. ++49(0)6556-93033



High-tech made in Germany: Aaronia's HyperLOG® EMC measurement antennas probably were THE ultimate novelty on the EMV 2004 expo in Dusseldorf. Experts everywhere were convinced: a professional EMC antenna with such specifications and design in this price category has yet to be found anywhere else.



Specifications HyperLOG® / [BicoLOG®]:

Design: Logarithmic-periodic / [Biconical]
 Frequency range: 380MHz-18GHz / [20MHz-3GHz] (depending on model)
 Max. power handling: 100 W CW (400MHz) / [1W (30dBm / 0dBW)]
 Nominal impedance: 50 Ohms / [50 Ohms]
 VSWR: typ. 1:1,5 / 1:2 (depending on model) / [Not applicable]
 Gain: typ. 5dBi / [typ. -5dBi to 1dBi] (depending on model)
 RF connector: SMA connector (18GHz), N connector via adapter / [N connector]
 Polarisation: linear vertical/horizontal, continuously variable with the included tripod
 Mast mounting: 5/8" tripod thread / [individual mounting mechanism]
 Dimensions (width/length/height): series 70xx & 60xxx: approx. 198x336x25mm, series 40xx & 30xxx: approx. 358x580x30mm / [approx. 350x160x40mm]
 Warranty: **10 years / [10 years]**
 Accessories included with the HyperLOG (depending on model): Noble aluminum carrycase, versatile handle and mini-tripod, SMA wrench, aluminum tripod and a **complete antenna factor correction chart for the corresponding antenna model**
 Accessories included with the BicoLOG (depending on model): Sturdy plastic case, **complete antenna factor correction chart for the corresponding antenna model**



Aaronia AG
 Gewerbegebiet Aaronia AG
 DE- 54597 Euscheid, Germany
 Tel. ++49(0)6556-93033
 Fax ++49(0)6556-93034

Email: mail@aaronia.de
 Internet: www.emf-meter.com

Your Aaronia distributor:

HyperLOG® BicoLOG®

The ultimate EMC antennas

Technical specifications subject to change without notice.

All specifications subject to error and change without notice. Our terms of service in the most current version apply.

An antenna which you always wanted - at a price that you wouldn't ever have dreamt of!

HyperLOG® and BicoLOG® EMC antennas - professional antennas at affordable prices

Optimal protection for singular technology

Protection from dust, corrosion and mechanical damage

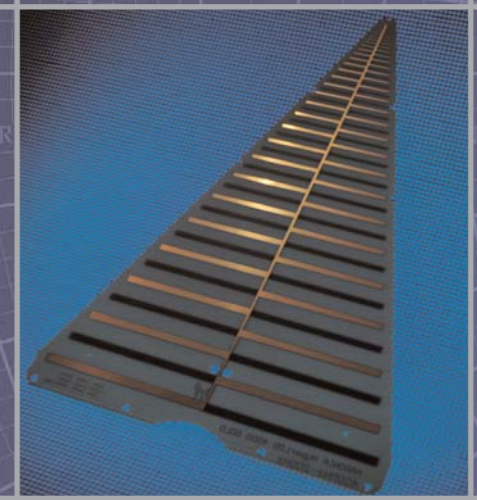
Absolute precision

Positions and dimensions of elements in conventional antennas can be subject to significant tolerances. Even outrageously expensive antennas can hence give just as significant measurement errors. In contrast, HyperLOG® antennas have a maximum tolerance of as little as 100µm per antenna element. Measurements in EMC labs confirm this probably unprecedented precision in antenna construction and thus warrant the best possible measurement results even in high GHz ranges.



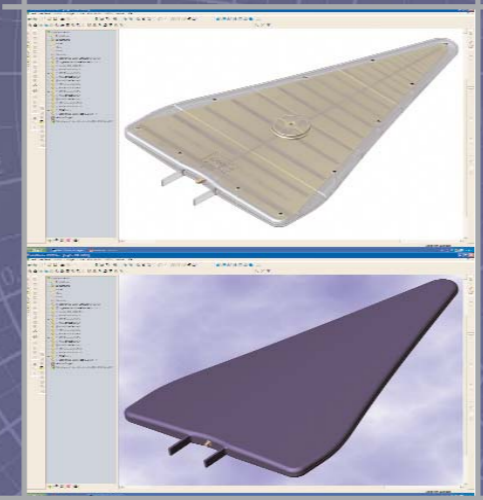
Singular technology

HyperLOG® antennas provide an option for an internal, electronically readable database that can store all important data like calibration charts, serial number and antenna model permanently. Using a corresponding spectrum analyzer, this data can be extracted automatically at any later time. Calibration of the entire measurement system then happens auto-matically as if by magic. Complex and error-prone manual calibration hence is a thing of the past with a HyperLOG®.



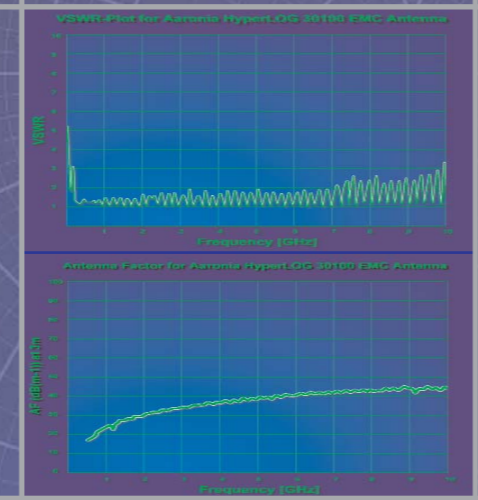
Singular appearance

Decent and to the point down to every detail - that's the design of Aaronia's HyperLOG® antennas. Elaborate computer simulations and countless prototypes were necessary in order to come up with the light-weight, elegant design of our HyperLOG® antenna series. And all this WITHOUT reducing the quality of the actual antenna. The radome coating reliably protects the sensitive antenna from moisture, dust and mechanical damage. Deformed antenna elements, fissures or oxidized connectors are hence finally a thing of the past with HyperLOG® antennas.



Extreme bandwidth

The top of the line model of our HyperLOG® series sports an extreme bandwidth of 380MHz to 18GHz - ISO calibration certificate included. HyperLOG® antennas offer a phantastically low ripple in their price category and a very linear frequency response. This is the result of a lot of fine-tuning, innovation and state-of-the-art antenna technology "Made in Germany". Every HyperLOG® and BicoLOG® is packed with a generic antenna factor correction table for the corresponding antenna model.



The dream team

Pair an Aaronia SPECTRAN® spectrum analyzer and a HyperLOG® or BicoLOG® antenna, and you got the ultimate dream team for EMC measurement, being the definite and innovative solution for your ambitious measurement needs - while still being easy on your budget. Where else can you get an antenna with these specifications at a comparable price? When using Aaronia's spectrum analyzers, you can further significantly reduce cost and at the same time fully benefit from all the features of our antennas including automatic calibration.



Device mount

For stable attachment of a spectrum analyzer to the HyperLOG® antenna

SMA connector

High-grade, gold-coated 18GHz version with over-torque protection

HyperLOG® 60xxx

Cross-section of the optimized case design of a HyperLOG® 60xxx.

High-tech paint

RF-optimized paint for the lowest possible damping

RF coating

For the best possible paint absorption and durability

Custom plastic

RF-optimized for precise measurements

Teflon/gold antenna

(series 60xxx / 30xxx) with ultra-precise dipole elements

Tripod mountable

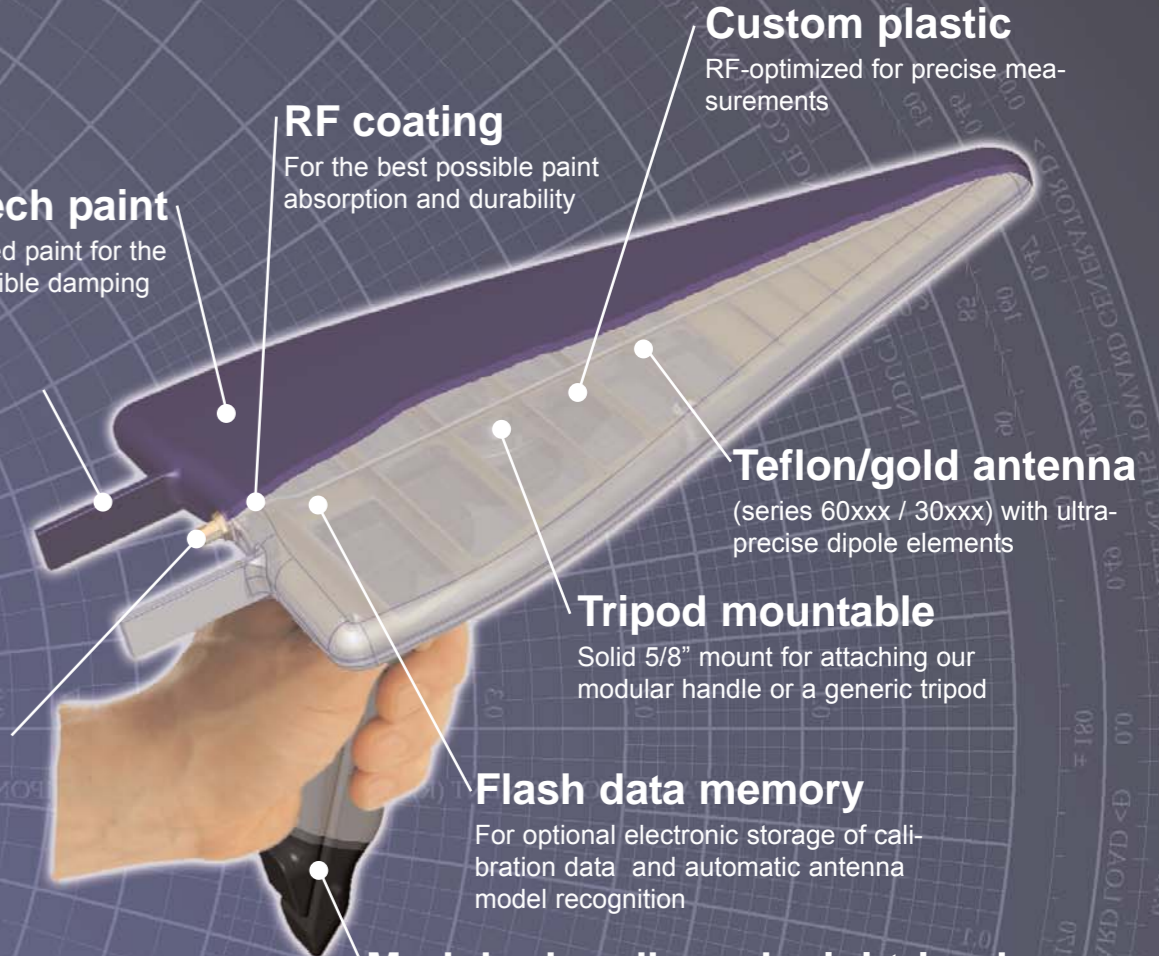
Solid 5/8" mount for attaching our modular handle or a generic tripod

Flash data memory

For optional electronic storage of calibration data and automatic antenna model recognition

Modular handle and mini-tripod

For easy handling when doing measurements on the road. Detachable at any time.



Available in noble silk blue finish...

...or in a "high-tech" transparent version

With just a few tweaks the included handle...

...becomes a practical minitripod

Polarisation is adjustable...

...continuously at any time...

The right size for any application

Included: aluminum case and accessories

BicoLOG® 20300 antenna with typical biconical shape

HyperLOG® and BicoLOG® Quality & innovation from a dependable partner

You want precision, reliability, outstanding features and appearance on the highest possible technical level? While still being easy on your budget? Aaronia's new EMC antennas are exactly what you were looking for. Formerly, high-quality antennas used to be handcrafted tediously in very small quantities. Of course, this manifested itself in exorbitantly high prices - often far beyond the 5000 Euro mark. In contrast, Aaronia makes HyperLOG® and BicoLOG® EMC antennas in mass production - thereby reducing the price to a formerly impossible level - while still maintaining the highest quality. Indeed: Where else can you get EMC antennas with our features and appearance at such a price?