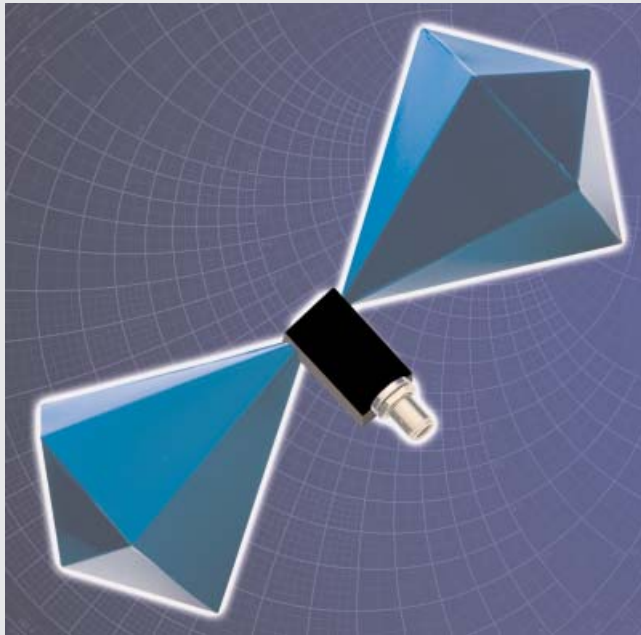


BicoLOG® Biconical EMC broadband test antenna 20MHz to 3GHz



REFERENCES / examples of profe

- Los Alamos National Laboratory, USA
- Australian Government Department of Defence, Australia
- EADS (European Aeronautic Defence & Space Company), Friedrichshafen
- NATO, Belgien

Highlights:

- Only a single broadband test antenna for the complete frequency range from 20MHz up to 3GHz
- Optimal for usage with spectrum analysers for EMC measurement
- Suitable for mobile use
- Robust design
- Small weight and dimensions
- Made in Germany
- **10 years warranty**

Included with delivery:

- BicoLOG® testantenna
- Typical calibration data with up to 106 calibration points (5MHz and 10MHz steps!)

Calibration & standards:

- The biconical antennas of the BicoLOG® EMC test series are suitable for EMI interference field strength measurement. The specialized broadband characteristics allow measurements to be taken in the complete specified frequency range **without switching**.
- **These antennas are suitable for measurement according to the following standards and procedures:** CISPR, VDE, MIL, VG, EN 55011, EN 55013, EN 55015, EN 55022, MIL-Std-461.

Specifications:

BicoLOG® 5070:

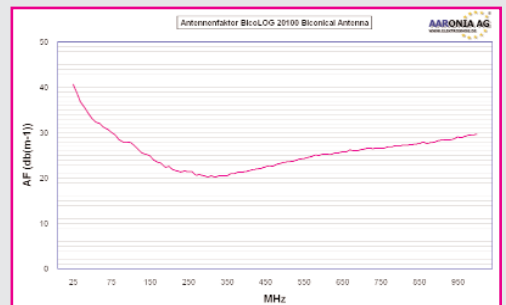
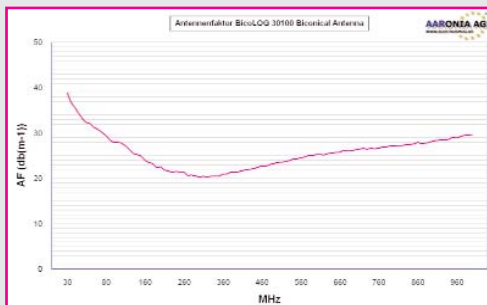
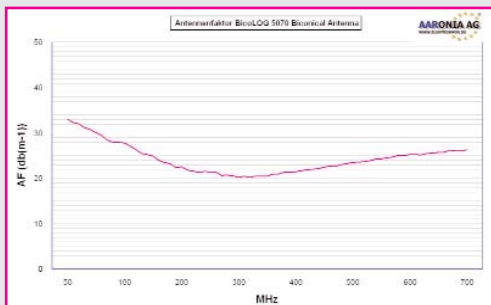
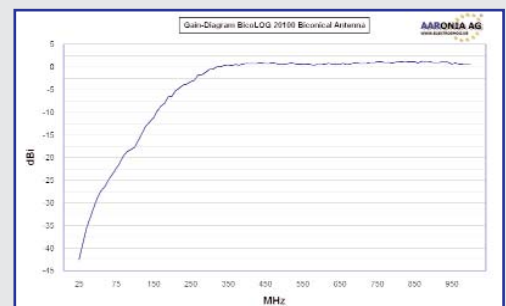
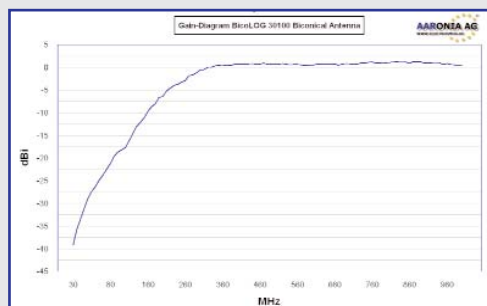
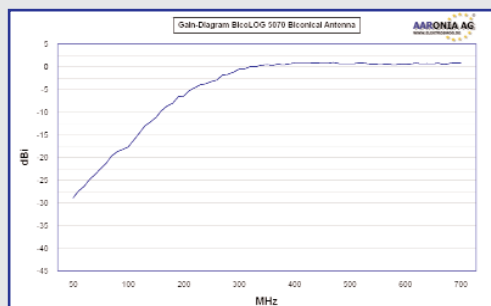
- Design: Biconical Antenna
- Frequency range: **50MHz to 700MHz**
- Max. transmission power: 1W (30dBm or 0dBW)
- Nominal impedance: 50 Ohms
- Gain: **-29dBi** to 1dBi
- Antenna factor: **20-33dB/m**
- Calibration points: **70** (5MHz and 10MHz steps)
- RF connection: N (female) or SMA with adapter
- Dimensions (L/W/D): (350x160x140) mm
- Weight: 350gr
- **Warrenty: 10 years**

BicoLOG® 30100:

- Design: Biconical Antenna
- Frequency range: **30MHz to 1GHz**
- Max. transmission power: 1W (30dBm or 0dBW)
- Nominal impedance: 50 Ohms
- Gain: **-39dBi** to 1dBi
- Antenna factor: **20-41dB/m**
- Calibration points: **104** (5MHz and 10MHz steps)
- RF connection: N (female) or SMA with adapter
- Dimensions (L/W/D): (350x160x140) mm
- Weight: 350gr
- **Warrenty: 10 years**

BicoLOG® 20100:

- Design: Biconical Antenna
- Frequency range: **20MHz to 1GHz**
- Max. transmission power: 1W (30dBm or 0dBW)
- Nominal impedance: 50 Ohms
- Gain: **-45dBi** to 1dBi
- Antenna factor: **20-42dB/m**
- Calibration points: **106** (5MHz and 10MHz steps)
- RF connection: N (female) or SMA with adapter
- Dimensions (L/W/D): (350x160x140) mm
- Weight: 350gr
- **Warrenty: 10 years**



Frequency Range Aaronia BicoLOG® EMC Test Antenna

Antenna-Version	20MHz	30MHz	50MHz	700MHz	1GHz	3GHz	Total	Examples for the utilizable frequency range
BicoLOG® 5070	No	No	Yes	Yes	No	No	50MHz-700MHz	ISM433, ISM866, Radio & TV (UKW, VHF)
BicoLOG® 30100	No	Yes	Yes	Yes	Yes	No	30MHz-1GHz	VHF-Band, ISM433, ISM866, Radio & TV (UKW, VHF, UHF), GSM900, CT1+
BicoLOG® 20100	Yes	Yes	Yes	Yes	Yes	No	20MHz-1GHz	CB-Radio, VHF-Band, ISM433, ISM866, Radio & TV (UKW, VHF, UHF), GSM900, CT1+
BicoLOG® 20300	Yes	Yes	Yes	Yes	Yes	Yes	20MHz-3GHz	VHF-Band, ISM433, ISM866, Radio & TV (UKW, VHF, UHF), GSM900, CT1+, GSM1800, UMTS, 2.4GHz WLAN

The biconical antennas of the BicoLOG® series are suited for measuring the strength of interfering fields. The special wideband characteristics allow for readings in the entire specified frequency range without switching. The antennas are suited for readings according to the following norms and procedures: CISPR, VDE, MIL, VG, EN 55011, EN 55013, EN 55015, EN 55022, MIL-Std-461.

© Aaronia AG, DE-54597 Euscheid, www.spectran.com, Tel. ++49(0)6556-93033



Aaronia AG, Gewerbegebiet Aaronia AG, DE-54597 Euscheid, Germany
Tel. ++49(0)6556-93033, Fax ++49(0)6556-93034
Email: mail@aaronia.de URL: www.spectran.com

BicoLOG®

HyperLOG®

Spectran®

Aaronia-Shield®

Aaronia X-Dream®

MagnoShield®

are registered trademarks of Aaronia AG