

Featuring Aaronia[™], Invisible Waves[™] and LoWavz[™] products



Biconical EMC broadband antennas - BicoLOG Series

Broadband transmission and reception from 20MHz to 3GHz - mobile and stationary use

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
- Small weight and dimensions
- Made in Germany
- 10 years warranty

Calibration & standards:

- The biconical antennas of the BicoLOG[®]. 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 measurments according to the following standards and procedures: CISPR, VDE, MIL, VG, EN 55011, EN 55013, EN 55015, EN 55022, MIL-Std-461.

Included with delivery:

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

References / examples of proof:

- NATO, Belgium
- Rohde & Schwarz Rome, Italy
- EADS (European Aeronautic Defence & Space Company), Germany
- Robert Bosch GmbH, Germany
- Australian Government Department of Defence, Australia
- Eurocontrol, Netherlands

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: SMA (female) or N with adapter
- Tripod socket: 1/4"
- Dimensions (L/W/D) : (350x160x140)mm
- Weight: 350gr
- Warranty: 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: SMA (female) or N with adapter
- Tripod socket: 1/4"
- Dimensions (L/W/D) : (350x160x140)mm
- Weight: 350gr
- Warranty: 10 years

NEW: BicoLOG[®] 30100E

- Design: Biconical Antenna
- Frequency range: **30MHz** to **1GHz**
- Max. transmission power: 1W (30dBm or 0dbW)
- Nominal impedance: 50 Ohms
- Gain: -31dBi to 1dBi
- Antenna factor: 17-31dB/m
- Calibration points: 194 (5MHz steps)
- RF connection: SMA (female) or N with adapter
- Tripod socket: 1/4"
- Dimensions (L/W/D) : (540x225x225)mm
- Weight: 1150gr
- Warranty: 10 years
- Optimized for EMC measurements







Antenna factor BicoLOG 30100







Horizontal Pattern (typical) BicoLOG Antennas



Vertical Pattern (typical) BicoLOG Antennas



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
- Tripod socket: 1/4"
- Dimensions (L/W/D) : (350x160x140)mm
- Weight: 350gr
- Warranty: 10 years

NEW: BicoLOG® 20100E

- Design: Biconical Antenna
- Frequency range: 30MHz to 1GHz
- Max. transmission power: 1W (30dBm or 0dbW)
- Nominal impedance: 50 Ohms
- Gain: -38dBi to 1dBi
- Antenna factor: 17-34dB/m
- Calibration points: 196
- (5MHz steps)
- RF connection: N (female) or SMA with adapter
- Tripod socket: 1/4"
- Dimensions (L/W/D) : (540x225x225)mm
- Weight: 1150gr
- Warranty: 10 years
- Optimized for EMC measurements

BicoLOG® 20300

- Design: Biconical Antenna
- Frequency range: 20MHz to 3GHz
- Max. transmission power: 1W (30dBm or 0dbW)
- Nominal impedance: 50 Ohms
- Gain: -45dBi to 1dBi
- Antenna factor: 20-51dB/m
- Calibration points: 296 (5MHz and 10MHz steps)
- RF connection: N (female) or SMA with adapter
- Tripod socket: 1/4"
- Dimensions (L/W/D) : (350x160x140)mm
- Weight: 350gr
- Warranty: 10 years



Antenna factor BicoLOG 20100









Recommended accessories for Aaronia Antennas

Heavy Plastic Carrycase PRO

Schock resistant, heavy version with padding. Offers space foam for all BicoLOG[®] antennas with all accessories. A MUST for the professional user or outdoor usage!

Order/Art.-No.: 244



interior view (with optional accessories)

exterior view

1m / 5m / 10m SMA-Cable

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

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

This special high quality adapter allows operation of all HyperLOG[®]-Antenna with any standard spectrum-analyzer with N connector. Also this adapter is needed to connect BicoLOG[®] antennas to a Spectran Spectrum Analyzer.

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



Pistol grip / miniature tripod

Detachable handle with super-practical miniature tripod mode: this handle is attachable to the backside of the unit and allows optimal handling (esp. for directional measurement) and even fixed installation of the unit. STRONGLY recommended for PC use!

Order/Art.-No.: 280

