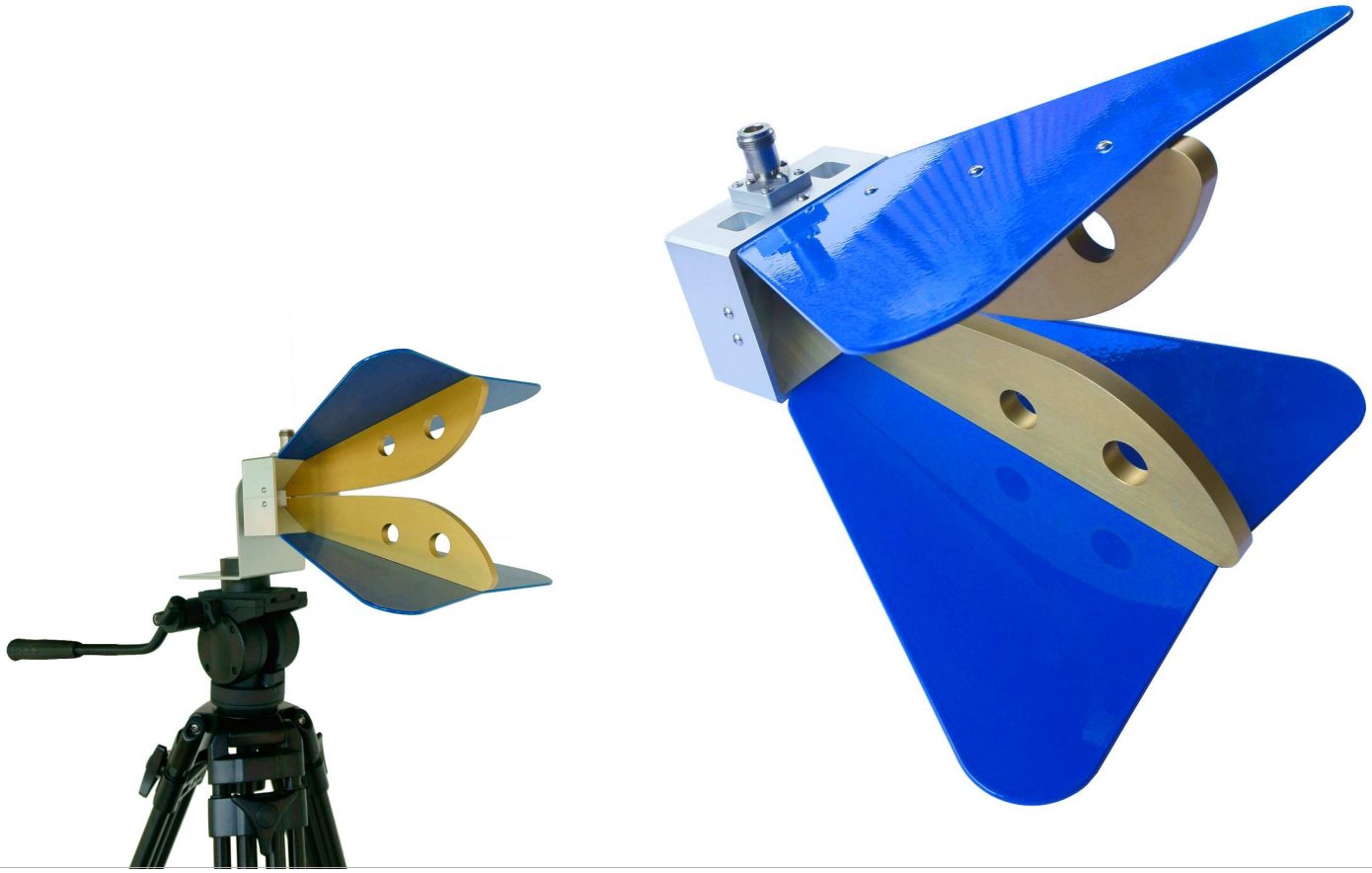

Rev 1.1
16.01.2016

# High Power Horn Antennas - PowerLOG® Series

## Frequency Range 700MHz - 18GHz, High Gain and High Max. Power

### Highlights:

- Supports very high power up to 500W (peak)
- Ultra wide frequency range, max. 700MHz to 18GHz
- Incl. specific calibration data
- Perfectly usable for EMC immunity tests with very
- high field strength
- Robust N-connector (female)
- Compact design, lightweight
- 10 years warranty
- Made in Germany

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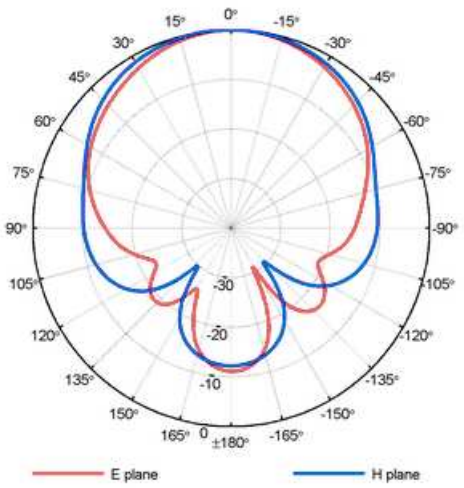
Made in Germany

## PowerLOG 10800

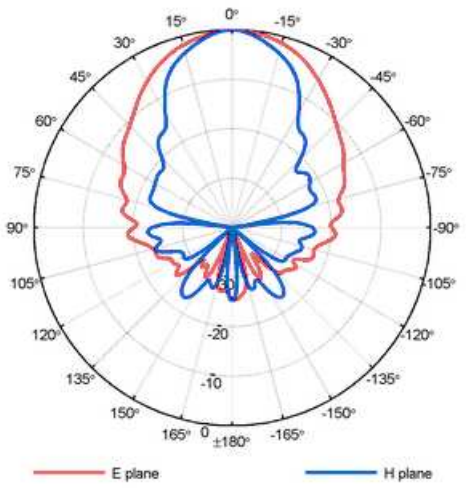
- Frequency range: **1GHz - 8GHz**
- Max. Input Power: **400W (peak), 200W (CW)**
- Gain: **4 to 13dBi**
- VSWR (typ): < 2,5:1
- Design: Double Ridge Horn
- Nominal impedance: 50 Ohm
- RF-connector: N (female)
- Temperature range: - 40°C to +85°C
- Dimensions (L/W/D): 235 x 252 x 175 mm
- Relative Humidity: 0% to 95%
- Weight: 1400gr
- RoHs compliant
- Incl. Specific Calibration Data and mounting plate
- **Warranty: 10 years**



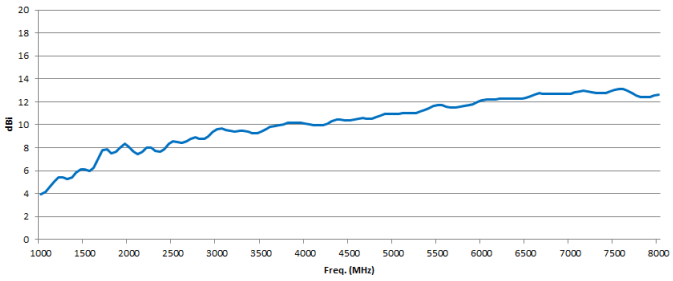

Typ. 1GHz Pattern

## PowerLOG 70180

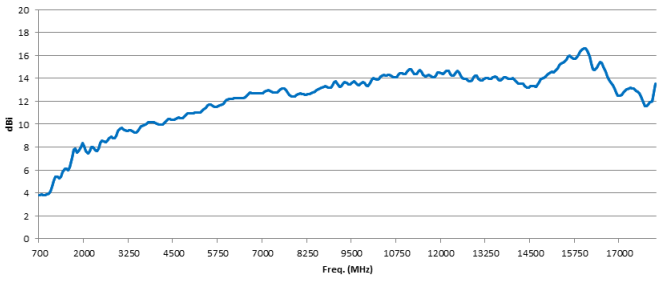
- Frequency range: **700MHz - 18GHz**
- Max. Input Power: **500W (peak), 300W (CW)**
- Gain: **2 to 17dBi**
- VSWR (typ): < 3:1
- Design: Double Ridge Horn
- Nominal impedance: 50 Ohm
- RF-connector: N (female)
- Temperature range: - 40°C to +85°C
- Dimensions (L/W/D): 235 x 252 x 175 mm
- Relative Humidity: 0% to 95%
- Weight: 1400gr
- RoHs compliant
- Incl. Specific Calibration Data and mounting plate
- **Warranty: 10 years**



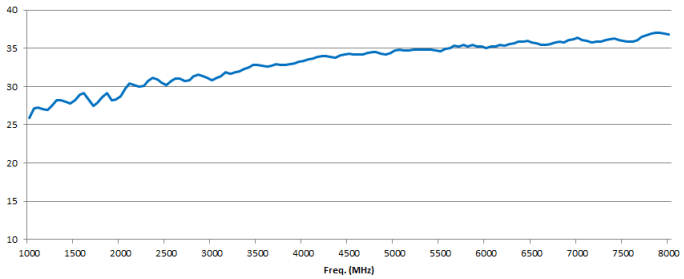

Typ. 3GHz Pattern



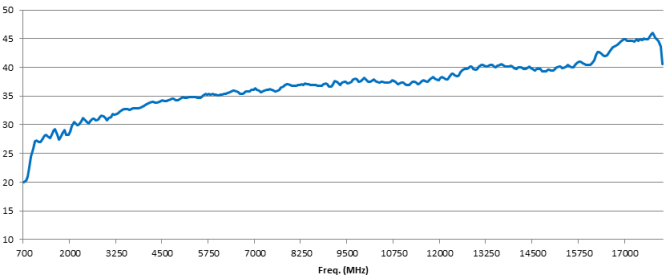

Gain PowerLOG 10800




Gain PowerLOG 70180




Antenna Factor PowerLOG 10800




Antenna Factor PowerLOG 70180

# Recommended accessories for Aaronia PowerLOG

## Heavy Tripod (strongly recommended!)

Highly recommend for the usage of PowerLOG antennas. Quick and easy change of antenna polarization, perfect antenna handling. Robust and sturdy. Incl. transport bag.

*Order/Art.-No.: 284*

## SMA to N Adapter

This special high quality adapter allows operation of all PowerLOG®-Antennas with any spectrum-analyzer with SMA connector, e.g. the 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*

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

High quality special SMA cable for connecting any PowerLOG®-Antenna with various test equipment like SPECTRAN 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)
(requires SMA to N Adapter for connection to PowerLOG)

*Order/Art.-No.: 771 (1m Cable), 772 (5m Cable), 773 (10m Cable)*

## 1m / 5m / 10m SMA-Cable with tightening nut

Same as above but incl. extremely pratical tightening nut for easy installation of the cable without any additional tool. Guarantees no fumbling anymore!

All versions: SMA plug (male) / SMA plug (male)
(requires SMA to N Adapter for connection to PowerLOG)

*Order/Art.-No.: 771X (1m Cable), 772X (5m Cable), 773X (10m Cable)*

# 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 Institute for Radio Astronomy, Germany
- Max-Planck Institute for Quantum Optics, Germany
- Max-Planck-Institute for Nuclear Physics, Germany
- Max-Planck-Institute for Iron Research, 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
- RTL Television, Germany
- Pro Sieben – SAT 1, Germany
- Channel 6, United Kingdom
- 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
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- Infineon Technologies, Germany
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- Hyundai Europe, Germany
- JDSU, Korea
- IBM Deutschland, Germany
- Nokia-Siemens Networks, Germany

AARONIA AG®
WWW.AARONIA.DE

Made in Germany

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