

# Active Logper Antenna OLP-440-A

Ultra high gain ACTIVE directional antenna. Wide frequency range from 400MHz to 4GHz .Optional laser, compass etc..

Every antenna goes through rigorous testing in our laboratories before dispatch and is equipped with a high quality GOLD COATING, a high-tech antenna-case (radome) which offers protection against mechanical damage and environmental influence, a top-quality integrated tripod connection and a SMA connector (18GHz version) with twist protection.

All antennas include a complete high resolution (10MHz steps!) calibration data set with up to 533 calibration points (on CD). This offers the ability to make a very accurate measurement with any Spectrum Analyzer.

All antennas are developed, individually produced and calibrated . This guarantees highest standard so that we can offer every customer a full 10 years warranty for all antennas.



## Features

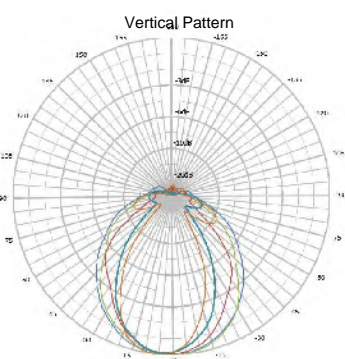
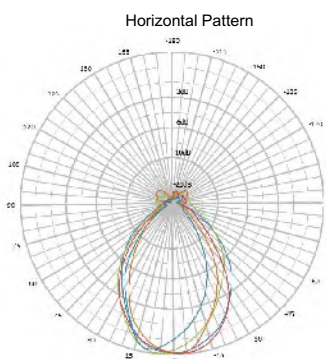
- Ultra high gain for detecting even lowest RF sources
- Integrated Low Noise Preamp incl. LiPo battery
- Runs with battery or external power supply (included)
- Integrated calibration data on EEPROM (readout via USB)
- Special designed radome for perfect antenna protection
- Gold coating for stable performance, Wide bandwidth
- Coverage of various mobile radio frequency ranges
- Suitable for field-strength and EMC measurements due to high precision
- Compact and sturdy design, Can be used in the lab and for open-field application

## Applications

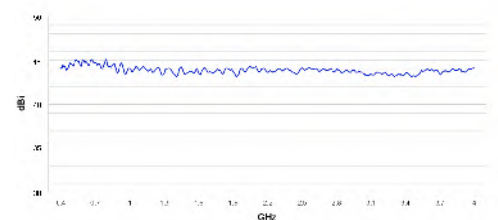
- ISM434, LTE800, ISM868, GSM900, GSM1800, GSM1900
- UMTS (Universal Mobile Telecommunications System)
- DECT (Digital Enhanced Cordless Telecommunications)
- Bluetooth, WiFi, WLAN, Microwave, LTE2.6, WiMAX, etc.

## Electrical Specifications

Frequency Range(GHz)	0.4-4
Nominal impedance	50 Ohm
VSWR	<1:2 (typ.)
Gain	44dBi (typ.)
RF connection	SMA (f) or N (see optional adapter)
Tripod connection	1/4"
Interface	USB2.0/1.1
Calibration points	361 (10MHz-steps)
Dimensions (L/W/D)	590x360x30 mm
Weight	1400gr



Gain diagram



## Recommended accessories for Antennas

### Heavy Plastic Carrycase PRO

Schock resistant, heavy version with padding. Offers spaces for a OLP 70xx or 60xxx antenna and 2 SPECTRAN units with all accessories.

A must for the professional user or outdoor usage!



interior view

exterior view



SMA Cable (1-10m)

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

High quality special SMA cable for connecting any Antenna or EC-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)

### Laser / Compass

Laser for pin pointing any RF source even at bright daylight. Available as 1mW version (red Laser) or 150mW power version (green Laser).

Easy to connect on top of any EC antenna. Including connector and all needed screws. Small Compass Ball for EC X Antennas. Works at any antenna position due to its liquid filled ball. Can be used together with above mentioned laser or separately. Including connector and all needed screws.



Compass



SMA to N Adapter

### SMA to N Adapter

This special high quality adapter allows operation of all EC-Antenna with any standard spectrum-analyzer with N connector. Also this adapter is needed to connect EC 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).

## Included in delivery

OLP-440-A active directional EMC measurement antenna  
 Low Noise Pre-amplifier with integrated LiPo battery (3,5h run time) International battery charger and power supply  
 Calibration data on EEPROM (readout via USB)  
 Typical calibration data with 361 calibration points (10MHz steps!) on CD  
 Large aluminum carrying case with foam protection  
 Pistol grip with mini tripod function  
 SMA tool set with over-torque protection

## Options

#### Option 502 (Tactical 150mW Green Power-Laser)

Extreme military grade. Easy to connect on top of any EC antenna. Including connector and all needed screws. Perfect for pinpointing any RF source even at bright daylight. About 1000x times brighter than our standard 1mW red laser. Very high range up to 15 km.  
**WARNING:** Only for outside use. This is no toy! Please make sure that you are allowed to use and/or import this gadget before placing an order!

#### Option 510 (Small Compass Ball)

Great gadget to localize a pinpointed RF source. Works at any antenna position due to its liquid filled ball. Can be used together with above mentioned laser or separately. Including connector and all needed screws.