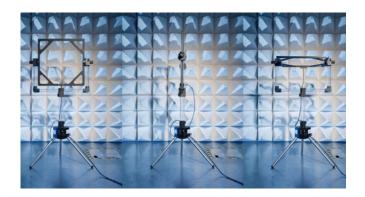


PLA-R RECEIVE ANTENNA

PRECISION LOOP ANTENNA



The PLA-R antenna is an active, battery powered loop antenna for fully compliant radiated disturbance measurements. Due to the broad frequency range from 9 kHz to 30 MHz it is suitable for all emission standards.

A very low noise floor allows for compliance measurements with low limits. Furthermore, the passive operation mode ensures that strong emissions e.g. from wireless charging applications don't overload the preamplifier.

With the integrated tripod, positioning is convenient and fast as the loop antenna needs to be oriented in x, y and z orientation. Two integrated laser pointers support the alignment.

SATURATION INDICATION

The patented circuit avoids erroneous measurements. In case of overload the PLA-R generates a pulsed signal which saturates the EMI receiver. The detection is done "automatically" by the EMI measurement software. No further saturation control mechanism is required. This works with all modern EMI receivers and test software.

PRODUCT HIGHLIGHTS

- Active and passive operation
- Patented saturation indication
- · Very low noise floor
- Fully compliant to CISPR 16-1-4
- Integrated tripod with laser alignment
- Battery powered
- Accredited calibration included
- Transport/Flight case included

TECHNICAL DATA

| Frequency range | 9 kHz - 30 MHz |
|---|---|
| Antenna area | Square, 60 cm side length |
| Antenna height (center) | 1.3 m |
| Antenna output VSWR | <1.1 |
| Connector type | Type N female |
| Pulse generator | |
| - Voltage | 30 V |
| - Pulse repetition frequency | 10 kHz, 1 MHz |
| - Pulse width | 200 ns, 12 ns |
| Temperature stability of antenna factor | ± 0.1 dB |
| Battery operation time, continuous use | >24 h |
| Batteries | internal, 10 cell NiMH, factory serviceable only |
| Laser | Class 2 |
| Temperature operating range | 10°C - 35°C |
| Dimensions of Antenna Set (flightcase) | 89 x 83 x 28 cm, weight 32kg |
| Weight of Antenna including tripod | 12.5 kg |







PLA-R ACTIVE LOOP ANTENNA PRECISION LOOP ANTENNA - PLA

FIGURES (TYPICAL DATA)

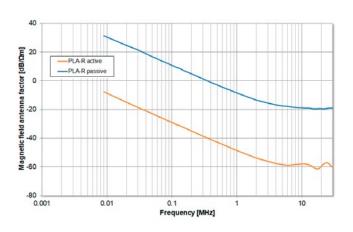


Figure 1: Magnetic field antenna factor in active and passive mode



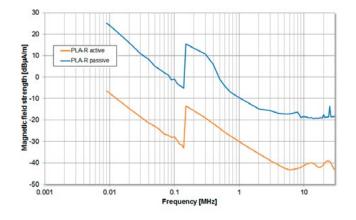


Figure 2: Noise floor for RE measurements in active and passive mode using Quasi-Peak detector

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