

ZN30900C Active Loop Antenna - Product Datasheet

Manufacturer: Beijing Daze Technology Co., Ltd.



1. Product Overview

Model: ZN30900C
Type: Active Loop Antenna
Frequency Range: 9kHz - 30MHz

The ZN30900C Active Loop Antenna is a new product developed by Beijing Da Ze Technology Co., Ltd. It features a wide frequency coverage from 9kHz to 30MHz, with consistent correction factors within the effective frequency range. The antenna offers excellent repeatability, high sensitivity, and is suitable for indoor use.

2. Technical Specifications

Parameter	Specification
Frequency Range	9kHz - 30MHz
Antenna Impedance	50Ω
Correction Factor	Refer to the attached table
Field Strength Measurement Error	±2dB
Field Strength Measurement Range	26dBμV/m – 100dBμV/m (with 1kHz bandwidth)
Background Noise	9kHz: 15 dBuV
	30kHz:10dBuV
	150kHz: 10dBuV
	1MHz: 10dBuV
	30MHz: 10dBuV
Operating Temperature	-10°C to +50°C
Relative Humidity	<90% (at 25°C)
Package Dimensions	750mm × 720mm × 230mm
Weight	19kg (including packaging)

3. Standard Accessories

Item	Quantity
Active Loop Antenna	1 unit
Charger	1 unit
5-meter N-to-N connection cable	1 unit
Tripod	1 unit
Certificate of Conformity	1 copy
User Manual	1 copy
Dedicated Carrying Case	1 unit

4. Operating Instructions

- Antenna Operation:** Connect the cables as shown in the diagram. Turn on the power switch, and the indicator light should turn green. The antenna does not have a tuning device; when a signal is present, the receiver will indicate the field strength at the corresponding frequency. Add the antenna correction factor to the receiver’s value to get the actual field strength.
- Charging:** The battery is located at the bottom of the antenna. When the power indicator turns red, it needs to be charged. Charge by connecting the charger to the DC12V socket and plugging the other end into a 220V power outlet. The yellow light on the charger will flash during charging and remain solid when fully charged. Charging time is 4.5 hours for more than 8 hours of usage. Charge the battery every three months to avoid depletion.

5. Warranty

- Warranty Period:** 18 months from the date of shipment.
- Warranty Conditions:** Covers defects in materials and workmanship under normal transportation and usage conditions.

Correction Factor Table

Frequency (MHz)	Correction Factor (dB)
0.09	35.2
0.03	27.8
0.05	25.9
0.08	24.9
0.1	23.4
0.3	21.0
0.5	20.3
0.8	20.1
1	20.0
2	20.1
4	21.3
6	20.1
8	20.0
10	19.1
12	19.2
14	19.6
16	19.8
18	19.8
20	19.6
22	19.3
24	18.7
26	17.9
28	18.0
30	19.2

6. Product Photo

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