

ZN30800A Active Whip Antenna (Vehicle) Product Datasheet

Manufacturer: Beijing Daze Technology Co., Ltd.



1. Product Overview

Model: ZN30800A
Type: Active Whip Antenna
Frequency Range: 9kHz - 30MHz

The ZN30800A Active Whip Antenna is designed for electromagnetic compatibility (EMC) testing, featuring a wide frequency range from 9kHz to 30MHz. It provides a stable 50Ω output impedance across the entire bandwidth. The antenna offers signal overload indication and low battery warnings, making it ideal for precise field strength measurements.

2. Technical Specifications

Parameter	Specification
Frequency Range	9kHz - 30MHz
Antenna Correction Factor	0 dB ± 1dB (Refer to Correction Factor Table)
VSWR Curve	Less than 1.5 (Avg)
Noise Floor	<14 dB
Internal Attenuators	10dB, 30dB (non-series)
Measurement Error	±1.5 dBμV/m (dynamic range), ±2 dBμV/m (attenuator)
Antenna Length	1.04m (Equivalent capacitance 10-12pF)
Ground Plane Area	1250x600mm
Operating Voltage	12V (10 AA rechargeable batteries)
Power Consumption	50mA
Main Unit Dimensions	190mm × 110mm × 125mm
Main Unit Weight	3.6kg
Carrying Case Dimensions	635mm × 180mm × 365mm
Total Package Weight	10.2kg

3. Standard Accessories

Item	Quantity
ZN30800A Main Unit	1 unit
Tripod	1 set
Whip Antenna Element	1 unit (1.04m)
Ground Plane	1 set (0.61m ²)
Ground Plane Screws	4 units
Connection Cable	1 unit (BNC-BNC, 1m)
Charger	1 unit (AC 220V input)
User Manual	1 copy
Certificate of Conformity	1 copy
BNC-N Adapter	1 unit
ZN30800A Custom Angle Converter	1 unit
Antenna Connector	1 unit

4. Operating Instructions

- Antenna Setup:** Connect the antenna to the main unit and ensure the ground plane is properly assembled and secured with screws.
- Power On:** Turn on the power switch. The "Power Indicator" light will illuminate. If the light does not turn on, recharge the battery.
- Signal Measurement:** Use the internal attenuators if the signal is too strong. The "Saturation Indicator" light will turn on if the signal exceeds 100dBμV/m. Add the attenuator's value to the receiver reading to get the correct field strength.
- Battery Charging:** Connect the charger to the AC 220V socket. Charge for up to 5 hours for 8 hours of continuous use.

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.
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6. Correction Factor Table

Frequency (MHz)	Correction Factor (dB/m)
0.009	0
0.03	-0.4
0.05	-0.4
0.08	-0.4
0.1	-0.4
0.3	-0.4
0.5	-0.4
0.8	-0.4
1	-0.4
2	-0.4
4	-0.4
6	-0.4
8	-0.4
10	-0.4
12	-0.4
14	-0.5
16	-0.5
18	-0.5
20	-0.5
22	-0.5
24	-0.5
26	-0.5
28	-0.5
30	-0.6

7. Product Photo



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