

ZN30600A Whip Antenna - Product Datasheet

Manufacturer: Beijing Daze Technology Co., Ltd.



1. Product Overview

Model: ZN30600A
Type: Whip Transmitting Antenna
Frequency Range: 10kHz - 30MHz (Two segments: 10kHz - 5MHz, 5MHz - 30MHz)

The ZN30600A whip antenna, designed by Beijing Daze Technology, is a lightweight, high-power, and high-efficiency antenna primarily used for transmission. It can also be used as a receiving antenna. When paired with the ZN30800A receiving antenna, it can measure the shielding effectiveness of shielding equipment.

2. Technical Specifications

Parameter	Specification
Frequency Range	10kHz - 30MHz (10kHz - 5MHz, 5MHz - 30MHz)
Input Power	≤10W
Correction Factor	Refer to Correction Factor Table
Operating Temperature	-10°C ~ +50°C
Relative Humidity	<90% (at 25°C)
Dimensions	80mm × 90mm × 160mm (Reflector: 0.6m × 0.6m)
Weight	Approx. 3kg

3. Standard Accessories

Item	Quantity
Antenna	1 unit
Ground Plate (0.6m²)	1 unit
Tripod	1 unit

Item	Quantity
5m N-N Cable	1 unit
User Manual	1 copy
Certificate of Conformity	1 copy
Packaging Box	1 unit

4. Operating Instructions

1. **Preparation:**
 - Mount the antenna on the tripod.
 - Attach the ground plate.
 - Connect the N-type connector to the power source or receiver using the provided 5m cable.
 - Extend the antenna fully.
 - Set the frequency band switch to the required frequency range.
 - **Note:** Turn off the power source before changing the frequency band to avoid damage to the antenna.
 - Once set, the power source can be turned on to begin operation.
2. **Shielding Effectiveness Measurement:**

When used with the ZN30800A active whip antenna, place the ZN30600A and ZN30800A antennas 0.6m apart. Connect the ZN30800A to the receiving device, adjust the power source so that the receiving device displays between 100dB and 120dB. Move the receiving antenna into the shielding equipment, maintaining a 0.3m distance from the shielding surface on both sides. The difference in readings will indicate the shielding effectiveness of the equipment.
3. **Receiving Antenna Usage:**

Connect the ZN30600A to the receiving device. Add the correction factor from Table 1 to the displayed reading to determine the actual electric field value at the antenna.
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5. Warranty

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

Frequency (MHz)	Correction Factor (dB/m)
0.01	78.7
0.03	75
0.05	72.7
0.08	68.8
0.1	66.9
0.3	58.6
0.5	53.5
0.8	49.7
1	49.1
3	39
5	33
8	29.8
10	28.5
15	25.9
20	25.7
25	25.2
30	26.3

7. Product Photo



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