

# ZN3950C EMI Test Receiver - Product Datasheet

**Manufacturer:** Beijing Daze Technology Co., Ltd.



## 1. Product Overview

**Model:** ZN3950C

**Type:** EMI Test Receiver

**Frequency Range:** 9kHz – 30MHz

The ZN3950C EMI Test Receiver is designed for measuring interference or sinusoidal signals within the frequency range of 9kHz to 30MHz. It can be paired with company-produced antennas for field strength measurements in the same frequency range. The receiver complies with CISPR-16 standards and is suitable for standard testing of household appliances, power tools, lighting equipment, and more. It also supports PC connectivity for data storage and analysis.

## 2. Technical Specifications

Parameter	Specification
Frequency Range	9kHz – 30MHz
Frequency Step	10Hz (9kHz – 150kHz), 1kHz (150kHz – 30MHz)
Voltage Measurement Range	10dB $\mu$ V – 110dB $\mu$ V
Detection Methods	Peak, Quasi-Peak, Average
Detection Duration	100ms – 3000ms
Peak Hold Time	100ms – 3s
Quasi-Peak Charge Time	45ms (9kHz – 150kHz), 1ms (150kHz – 30MHz)
Quasi-Peak Discharge Time	500ms (9kHz – 150kHz), 160ms (150kHz – 30MHz)
Meter Mechanical Time Constant	160ms $\pm$ 80ms
Overload Coefficient	>24dB (9kHz – 150kHz), >30dB (150kHz – 30MHz)
Measurement Error	$\pm$ 1.5dB
Intermediate Frequency Bandwidth (6dB)	200Hz (9kHz – 150kHz), 9kHz (150kHz – 30MHz)
Intermediate Frequency Rejection	>40dB
Mirror Frequency Suppression	>40dB

Parameter	Specification
Signal Source Output Level	>97dB $\mu$ V
Field Strength Measurement Range	10dB $\mu$ V/m – 140dB $\mu$ V/m (with ZN30800 Antenna)
	30dB $\mu$ V/m – 140dB $\mu$ V/m (with ZN30900A Antenna)
Standards Compliance	CISPR-16
Dimensions	360mm × 270mm × 120mm
Weight	9kg

### 3. Key Features

- **CISPR-16 Compliant:** Meets international standards, suitable for various testing applications.
- **Multiple Detection Modes:** Supports peak, quasi-peak, and average detection.
- **PC Connectivity:** Can be connected to a PC via USB-RS232 for data storage and analysis.
- **User-Friendly Operation:** Equipped with an LCD display for easy adjustment of frequency, step size, and other parameters.
- **Portable Design:** Compact and lightweight, making it easy to carry and operate.

### 4. Standard Accessories

Item	Quantity
ZN3950C Test Receiver	1 unit
USB Flash Drive	1 unit
1m Test Cable	1 unit
USB-RS232 Converter Cable	1 unit
Power Cable	1 unit

### 5. Warranty

- **Warranty Period:** 18 months from the date of shipment, covering defects under normal usage and transportation conditions.

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## 6. Product Photo



### Contact Information:

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