

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	10dBμV – 110dBμV
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 ±80ms
Overload Coefficient	>24dB (9kHz – 150kHz), >30dB (150kHz – 30MHz)
Measurement Error	±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	>97dBμV
Field Strength Measurement Range	10dBμV/m – 140dBμV/m (with ZN30800 Antenna)
	30dBμV/m – 140dBμV/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.

6. Product Photo



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