

ZN3951E EMI Test Receiver - Product Datasheet

Manufacturer: Beijing Daze Technology Co., Ltd.



1. Product Overview

Model: ZN3951E
Type: EMI Test Receiver
Frequency Range: 9kHz – 350MHz

The ZN3951E EMI Test Receiver is designed to measure interference or sinusoidal signals within the frequency range of 9kHz to 350MHz. It complies with CISPR-16 standards and provides sweep or point frequency measurements for various applications, including household appliances, power tools, and lighting systems.

2. Technical Specifications

Parameter	Specification
Frequency Range	9kHz – 350MHz
Frequency Step	10Hz (9kHz – 150kHz), 1kHz (150kHz – 30MHz), 10kHz (30MHz – 350MHz)
Voltage Measurement Range	A, B Band: 10dBμV – 120dBμV (Preamp OFF), 0dBμV – 60dBμV (Preamp ON)
	C Band: 20dBμV – 120dBμV (Preamp OFF), 10dBμV – 60dBμV (Preamp ON)
Detection Methods	Peak, Quasi-Peak, Average
Detection Duration	10ms – 3000ms
6dB Bandwidth	200Hz ±10% (9kHz – 150kHz), 9kHz ±10% (150kHz – 30MHz), 120kHz ±10% (30MHz – 350MHz)
Intermediate Frequency Rejection	>40dB
Mirror Frequency Suppression	>40dB
Measurement Error	±2dB

Parameter	Specification
Dimensions	526mm × 376mm × 160mm (L × W × H)
Weight	16kg
Power Supply	~220V ±10%, 50Hz ±5%
Operating Temperature	0 – 40°C
Humidity Range	20 – 90% RH
Atmospheric Pressure	86 – 106kPa

3. Key Features

- CISPR-16 Compliant:** Fully meets the CISPR-16 standard requirements for accurate and standardized measurements.
- Display:** Equipped with an LCD screen for ease of operation and visualization of test data.
- Technology:** Utilizes DDS (Direct Digital Synthesis), PLL (Phase-Locked Loop), and a high-performance microprocessor for precise measurement.
- Detection Modes:** Supports peak, quasi-peak, and average detection over a wide frequency range.
- External Interface:** Can be connected to PC software for data storage and analysis.
- Field Strength Measurement:** Works with the company's antennas to perform field strength measurements over the corresponding frequency bands.

4. Detection Methods

Method	Description
Peak	Measures signal peaks without any time constant weighting.
Quasi-Peak	Measures signals with time constants as specified in the CISPR standard.
Average	Provides the average signal value over the detection duration.

5. Operating Conditions

- **Sweep Mode:** Measures frequencies sequentially over a selected range.
 - **Point Frequency Mode:** Measures a specific frequency point.
 - **List Mode:** Measures user-defined selected frequency points.
-

6. Standard Accessories

Item	Quantity
ZN3951E Test Receiver	1 unit
N-N Test Cable (1m)	1 unit
Power Cable	1 unit
N-BNC Adapter	1 unit

7. Warranty

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

8. Product Photo



Contact Information:
Beijing Daze Technology Co., Ltd.
Phone: 010-64357789
Fax: 010-64373942
Website: www.zn734.com.cn
Email: 781920339@qq.com