



CRY2716

Multi-channel Noise and Vibration Analysis System

Product Features

- Built-in 4mA /24V constant-current circuitry. This product can be directly connected to IEPE type acceleration sensors, speed sensors, force sensors, microphones, etc. for signal measurement.
- Voltage signal measurement. This product works with thermocouples, eddy current sensors, magnetolectric speed sensors, strain sensors and various transmitters (conditioners) to test and analyze a wide range of physical quantities.
- Optional built-in charge conditioner with piezoelectric transducer is available for accurate measurement of dynamic pressure and vibration acceleration.
- This product adopts 24-bit high-precision A/D, and all channels are sampled in parallel to achieve the advantages of low noise and high accuracy. Real-time communication with computer via Gigabit Ethernet, continuous sampling rate up to 256kHz/channel.
- This product can be equipped with D/A digital signal source output module to output sine, sweep, random and square wave signals. It can be used with power amplifier, shaker, acceleration sensor, etc. to form various vibration test systems.

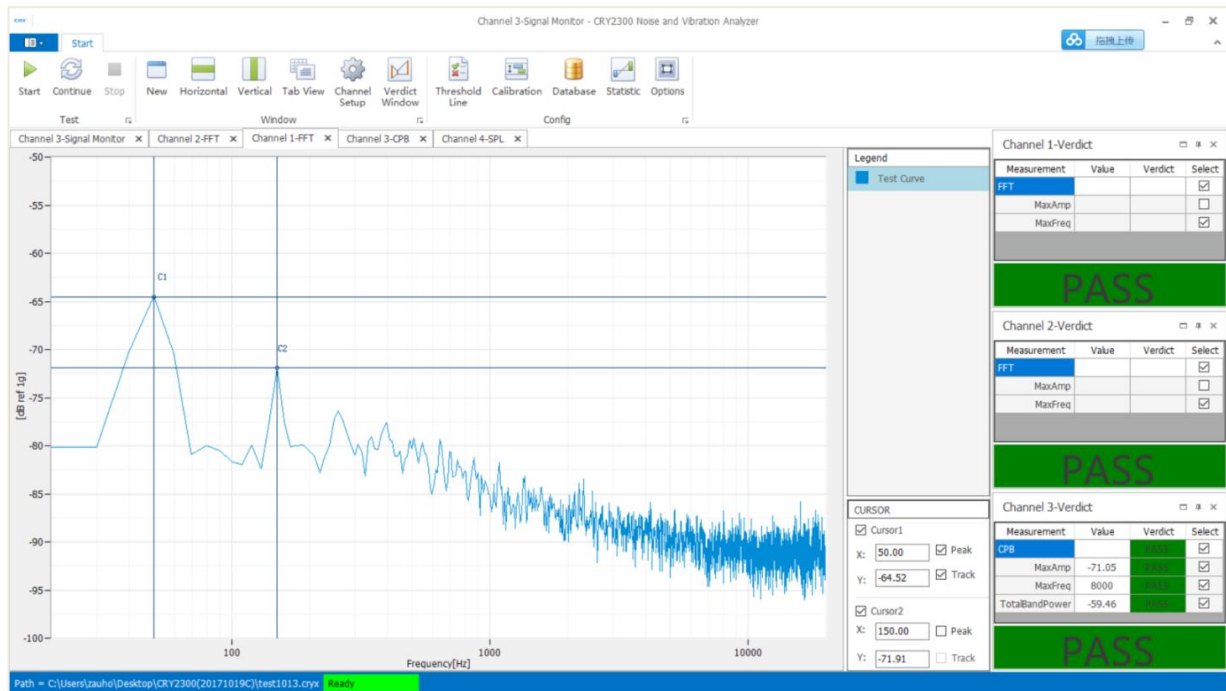
- Gigabit network port, suitable for industrial sites
- IEPE (ICP) power supply, line input
- Sampling rate up to 256 kHz, 24 bits
- 123 dB dynamic range
- Sound pressure level/Vibration level/Octave/FFT
- Provides programming interface for easy integration
- Support Modbus protocol docking platform

- Optional opto-isolated input and output digital interface modules are available to read input digital signals (such as encoders, photoelectric switches, etc.) and control external outputs.
- Equipped with easy-to-learn and functional acquisition and analysis software. There are three main functions that can be achieved by the software.
 - a. The software can set the input type, range, sensor sensitivity, sampling rate and other parameters of the dynamic signal analyzer.
 - b. The software can transmit, display, analyze and process data in real time.
 - c. The software can use the computer hard disk for long time real-time, uninterrupted multi-channel signal recording.
- With Gigabit Ethernet switch extension, a single computer can achieve simultaneous acquisition and analysis of multiple devices in parallel. It is widely used in fatigue testing, performance testing and characteristic analysis of various structures in education and scientific research, aerospace, automotive industry, rail transit and other industries.

Technical Index

Number of Channels		16
ADC Sampling Bits		24 bits
Input Type		IEPE (Optional: Voltage/IEPE/Charge input types)
ICP/IEPE power supply		4mA(24VDC)
Signal input range		±10VPEAK
Input Bandwidth	Voltage	DC~100kHz(-3dB)
	IEPE	0.3Hz~100kHz(-3dB)
Filters		Multi-grade analog filtering plus digital anti-alias filtering (automatically set following the sampling rate)
Built-in gain		×1 ,×10 ,×100
Precision		<0.3%
Maximum sampling rate		Parallel synchronization 256kHz/channel
Transmission interface		Gigabit Ethernet
Dimension (mm)		269W×68H×234D
Weight (grams)		2300
Power supply		220V 50Hz / 110V 60Hz

Supporting software interface



Application Scenarios

- Online monitoring of sound and vibration of large industrial equipment
- Online monitoring of sound and vibration of power equipment
- Bridge vibration online monitoring
- Sound power detection of household appliances

