

Vibration Controller

K2 Sprint

Common hardware supports all types of vibration test.

While inheriting all of the performance and features of K2, K2 Sprint offers improved cost-effectiveness with 2-channel hardware.

K2 Sprint is best-suited to single monitor-channel operation.

[Differences from K2]

- Input 2 channels (No expansion)
- Output 2 channels (No expansion)



Minimum Specifications for PC

- One built-in PCI Express x1 slots
- Microsoft Windows 10 Pro (64bit), Windows 10 IoT Enterprise (64bit) or Windows 7 Professional SP1 (32bit/64bit) is required*.
- Memory required (for 8 input channels)
Windows 7 (32 bit) :2 GB or more
Windows 7/10 (64 bit) :4 GB or more
- DVD-ROM Drive (required for installation)
- One USB port
- PC and monitor resolution should be 1280 x 1024 or more

* Recommended OS and memory vary depending on software, options , number of I/O channels, etc.

* When the optional software is added to the Eco Shaker, system requirements for the PC will change.

Specifications

Main Enclosure	
AC Power	Single-phase AC, 100V-240V (Auto-selected)
External Communication	Contact I/O (for Emergency stop)
Ambient Conditions	0-40°C, below 85% RH, no condensing
Dimensions	W345 x H40 x D210mm (excluding connectors etc)
Mass	Approximately 6.0kg

●Input Section	
Number of Channels	2
Input Connector	BNC
Input Signal	Charge, Voltage, IEPE
Charge Amplifier Sensitivity	1.0mV/pC or 10mV/pC
Charge Amplifier Cut-off	0.32Hz
Maximum Input	Charge Input $\pm 10000\text{pC}$ or $\pm 1000\text{pC}$ Voltage Input $\pm 10000\text{mV}$ IEPE Input $\pm 10000\text{mv}$
Sampling Frequency	51.2kHz maximum
Voltage Input Coupling	AC or DC
AC Coupling Cut-off	0.1Hz
CCLD Amplifier(IEPE)	+24VDC,3.5mA
TEDS(IEPE)	Version0.9,Version1.0
A/D Converter	Type : $\Delta\Sigma$ Resolution : 24-bit Dynamic Range: 117dB Digital Filter : Pass-band ripple $\pm 0.001\text{dB}$: Stop-band attenuation 110dB

●Output Section	
Number of Channels	2 (a channel is occupied for drive output)
Output Terminal	BNC
Output Signal	Voltage
Maximum Output	$\pm 10000\text{mV}$
Sampling Frequency	51.2kHz maximum
D/A Converter	Type : $\Delta\Sigma$ Resolution : 24-bit Dynamic Range: 120dB Digital Filter : Pass-band ripple $\pm 0.005\text{dB}$: Stop-band attenuation 75dB

