

Sapphire Instruments Co., Ltd.

Specifications of SI-200

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Bandwidth	DC to 200MHz (-3dB)
Attenuation Ratio	1/10
Accuracy	±1%
Rise Time	1.75ns
Input Impedance	500kΩ//7pF each side to ground
Input Voltage*	
- Differential Range	±20V (DC+peakAC)
- Common Mode Range	±60V (DC+peakAC)
- Absolute Max. Voltage (either input to ground)	±60V (DC+peakAC)
Output Voltage	
- Swing	±2V (into 50Ω load)
- Offset (typical)	<±2mV
- Noise (typical)	0.3mVrms
- Source Impedance (typical)	50Ω (for using 50Ω input system oscilloscope)
CMRR (typical)	-80dB @100Hz, -50dB @10MHZ
Power Requirements	Mains adaptor (6VDC/90mA or 9VDC/70mA) or
(Four options of power sources)	Removable battery pack (4xAAcells) or Power leads or USB power cord
Optional Extension Plugs for Mains Adaptor	
- Input	One jack of 1A current rating
- Output	Three plugs of 1A current rating
Ambient Operating Temperature	-10 to 40
Ambient Storage Temperature	-30 to 70
Ambient Operating Humidity	25 to 85% RH
Ambient Storage Humidity	25 to 85% RH
Length of BNC Cable	125cm
Length of Input Leads	50cm
Weight	300gms
Dimensions (LxWxH)	111mm x 22mm x 14mm

* Voltage limit is the lesser of the DC+Peak AC and RMS values..

** a. The supplied voltage must be less than 16V and greater than 3.3V, otherwise the probe could be damaged or can't be operated properly.

- b. For wrong polarity of power sources, a built-in circuit will protect the probe and no danger or damage will occur.
- c. When the voltage of the cells become too low, the power indicator on the panel will change its color and then distinguish.