

Surge Protector

User Manual

Model: SP003

HD-TVI/AHD/HDCVI/CVBS & Data Surge Protector (RJ45 Connector)



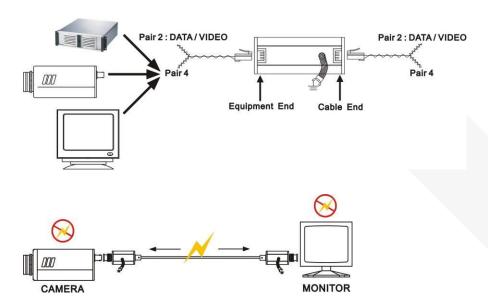
Introduction

SP003 is a surge protector designed to protect HD-TVI, AHD, HDCVI, CVBS and data devices from high voltage surges, supporting resolution up to 4K (8MP)..

Features

- Supports HD-TVI, AHD, HDCVI, CVBS and data signals.
- Use two pairs (Pin 3, 6, 7, 8) for surge protection.
- Response time less than Ins.
- Two stage protection: 130V, AC/DC 12V

Installation View



*Use pair2 and 4 (Pin3,6,7,8) for surge protection.

Application

- CATV System
- Antenna of Television
- Video Cassette Recorders
- FM receivers
- Video Cameras and monitors
- Multiplexers and Quad Processor

Specification

Support Video Resolution 4K (8MP) Response Time 7Ins Max. Surge Voltage 4 kV Surge Life 300 surges/ 100Amps Normal Resistance Across Coax 10,000 MΩ Surge Resistance Approx. 0Ω Band Pass 0-1 GHZ Power Passing Capability 130V AC / DC, 65 Vrms at10 Amps Insertion Loss 40.2 dB Return Loss (75Ω) 16dB Ports & Interfaces Equipment End 1x RJ45 Female Cable End 1x RJ45 Female Ambient Temperature Operation -10 to 75°C Storage -40 to 90°C Humidity 95% Physical Characteristics Dimensions 85 x 25 x 25 mm	ITELLINO	2022
Video Resolution 4K (8MP) Response Time ⟨Ins Max. Surge Voltage 4 kV Surge Life 300 surges/100Amps Normal Resistance Across Coax 10,000 MΩ Surge Resistance Approx. 0Ω Band Pass 0-1 GHZ Power Passing Capability 130V AC / DC, 65 Vrms at10 Amps Insertion Loss ⟨0.2 dB Return Loss (75Ω) 16dB Ports & Interfaces Equipment End Cable End 1 x RJ45 Female Ambient Temperature Operation Operation -10 to 75 °C Storage -40 to 90 °C Humidity 95% Physical Characteristics Dimensions	ITEM NO.	SP003
Response Time ⟨Ins Max. Surge Voltage 4 kV Surge Life 300 surges/100Amps Normal Resistance Across Coax 10,000 MΩ Surge Resistance Approx. 0Ω Band Pass 0~1 GHZ Power Passing Capability 130V AC / DC, 65 Vrms at10 Amps Insertion Loss ⟨0.2 dB Return Loss (75Ω) 16dB Ports & Interfaces Equipment End Cable End 1 x RJ45 Female Ambient Temperature Operation Operation -10 to 75°C Storage -40 to 90°C Humidity 95% Physical Characteristics Dimensions	Support	
Max. Surge Voltage 4 kV Surge Life 300 surges/100Amps Normal Resistance Across Coax 10,000 MΩ Surge Resistance Approx. 0Ω Band Pass 0-1 GHZ Power Passing Capability 130V AC / DC, 65 Vrms at10 Amps Insertion Loss <0.2 dB	Video Resolution	4K (8MP)
Surge Life 300 surges/ 100Amps Normal Resistance Across Coax 10,000 MΩ Surge Resistance Approx. 0Ω Band Pass 0~1 GHZ Power Passing Capability 130V AC / DC, 65 Vrms at10 Amps Insertion Loss <0.2 dB	Response Time	<ns><ns< ns=""></ns<></ns>
Normal Resistance Across Coax 10,000 MΩ Surge Resistance Approx. 0Ω Band Pass 0-1 GHZ Power Passing Capability 130V AC / DC, 65 Vrms at10 Amps Insertion Loss <0.2 dB	Max. Surge Voltage	4 kV
Surge Resistance Approx. 0Ω Band Pass 0-1 GHZ Power Passing Capability 130V AC / DC, 65 Vrms at10 Amps Insertion Loss <0.2 dB	Surge Life	300 surges/ 100Amps
Band Pass 0~1 GHZ Power Passing Capability 130V AC / DC, 65 Vrms at10 Amps Insertion Loss <0.2 dB	Normal Resistance Across Coax	$10{,}000~\mathrm{M}\Omega$
Power Passing Capability Insertion Loss (0.2 dB Return Loss (75Ω) Il6dB Ports & Interfaces Equipment End I x RJ45 Female Cable End I x RJ45 Female Ambient Temperature Operation -10 to 75℃ Storage -40 to 90℃ Humidity 95% Physical Characteristics Dimensions	Surge Resistance	Approx. 0Ω
Insertion Loss Return Loss (75Ω) 16dB Ports & Interfaces Equipment End 1 x RJ45 Female Cable End 1 x RJ45 Female Ambient Temperature Operation -10 to 75°C Storage -40 to 90°C Humidity 95% Physical Characteristics Dimensions 85 x 25 x 25mm	Band Pass	0~1 GHZ
Return Loss (75Ω) 16dB Ports & Interfaces 1x RJ45 Female Equipment End 1x RJ45 Female Cable End 1x RJ45 Female Ambient Temperature -10 to 75°C Storage -40 to 90°C Humidity 95% Physical Characteristics Dimensions 85 x 25 x 25mm	Power Passing Capability	130V AC / DC, 65 Vrms at10 Amps
Ports & Interfaces Equipment End	Insertion Loss	<0.2 dB
Equipment End 1 x RJ45 Female Cable End 1 x RJ45 Female Ambient Temperature Operation -10 to 75°C Storage -40 to 90°C Humidity 95% Physical Characteristics Dimensions 85 x 25 x 25mm	Return Loss (75 Ω)	16dB
Cable End I x RJ45 Female Ambient Temperature Operation -10 to 75°C Storage -40 to 90°C Humidity 95% Physical Characteristics Dimensions 85 x 25 x 25mm	Ports & Interfaces	
Ambient Temperature Operation -10 to 75°C Storage -40 to 90°C Humidity 95% Physical Characteristics Dimensions 85 x 25 x 25mm	Equipment End	1 x RJ45 Female
Operation -10 to 75°C Storage -40 to 90°C Humidity 95% Physical Characteristics Dimensions 85 x 25 x 25mm	Cable End	1 x RJ45 Female
Storage −40 to 90°C Humidity 95% Physical Characteristics Dimensions 85 x 25 x 25mm	Ambient Temperature	
Humidity 95% Physical Characteristics Dimensions 85 x 25 x 25mm	Operation	-10 to 75℃
Physical Characteristics Dimensions 85 x 25 x 25mm	Storage	-40 to 90°C
Dimensions 85 x 25 x 25mm	Humidity	95%
	Physical Characteristics	
Weight 90g	Dimensions	85 x 25 x 25mm
	Weight	90g

