

Surge Protector

User Manual

Item No.: SP009P

**HD-TVI/AHD/HDCVI/CVBS POC (Power over Coax) Surge
Protector**

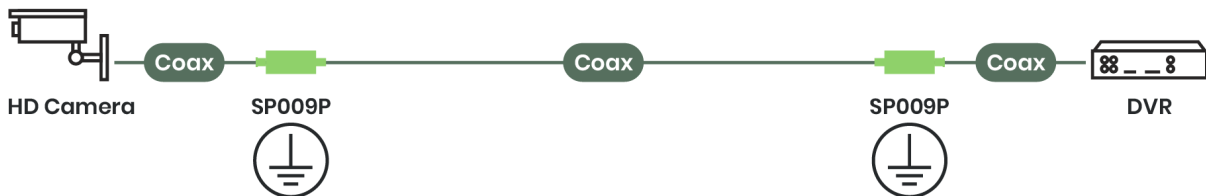
SP009P is a surge protector designed to protect HD-TVI, AHD, HDCVI, CVBS, and PoC (Power over Coaxial) device from high voltage spikes without compromising the performance of network bandwidth and power transfer.

Features

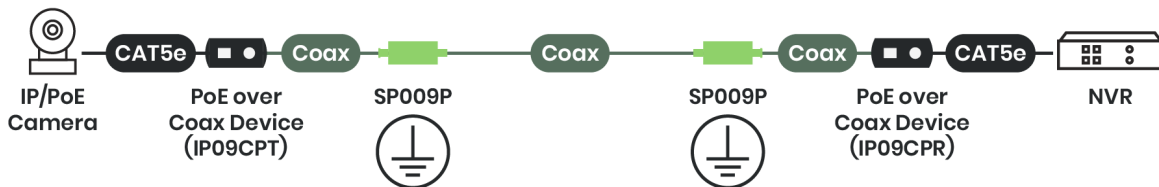
- Supports HD-TVI, AHD, HDCVI, CVBS, and PoC devices.
- Supports PoC (Power over Coaxial).
- Resolution up to 8MP (4K).
- Max surge current up to 25KA.
- Network bandwidth up to 100Mbps at 450M.
- Response time less than 1 microsecond.
- Compliant with IEC 61000-4-5.

Diagram

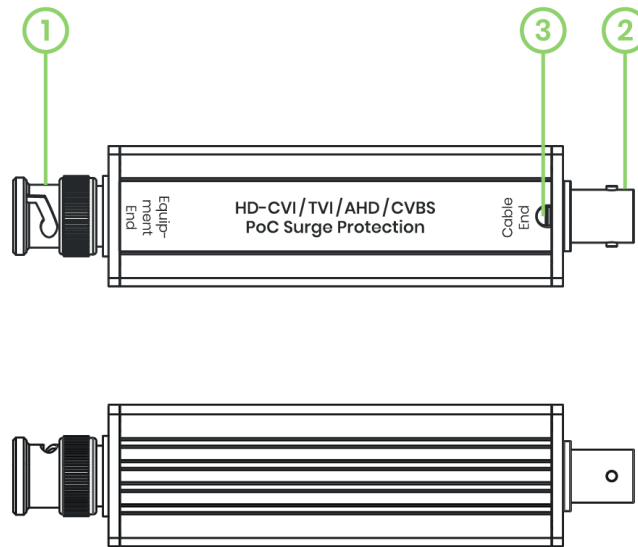
Connect a HD Camera (Must connect to the earth ground)



Connect a PoC Device (Must connect to the earth ground)



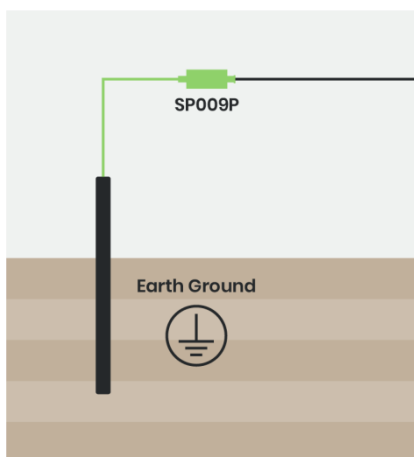
Panel View



| No | Interface | Function |
|----|---------------|-----------------------------|
| 1 | Equipment End | To connect a video source. |
| 2 | Cable End | To connect a coaxial cable. |
| 3 | Ground Wire | To connect the ground. |

Caution

1. We recommend using a RG-coaxial cable, such as RG59/ RG6U.
2. To effectively protect your device, please ensure to connect the ground wire to the earth ground (Impedance <math>< 100\Omega</math>).



3. Do NOT connect the ground wire to an electrical wire.
4. We recommend using SP009P with IP09CP (PoE over coaxial extender).
 - ※ IP09CP has built-in ESD protection, you can use it with SP009P to improve the protection.
 - ※ SP009P might shorten the transmission distance by up to 50M.

Specification

| | |
|---------------------------|-------------------------|
| Item No. | SP009P |
| Support | |
| Compliant | IEC 61000-4-5 PoC |
| Bandwidth | 0 to 1000MHz |
| Response Time | < 1us |
| Insertion Loss | 0.8db@42 MHz |
| Max. Discharge Current | 25kA (8/20 us) |
| Maximum Operating Voltage | 58V |
| Ports & Interfaces | |
| Input (Equipment End) | 1 x BNC (Male) |
| Output (Cable End) | 1 x BNC (Female) |
| Ground | 1 x Fork-type cable lug |
| Ambient Temperature | |
| Operation | -40 to 90°C |
| Storage | -40 to 90°C |
| Humidity | Up to 95% |
| Operating Altitude (Max) | 2000M |
| Physical Characteristics | |
| Mounting | Rack-Mount / Wall-Mount |
| Dimension | 112.65 x 25.4 x 25.4mm |
| Weight | 85g |