

# SURGE FOR EQUIPMENT

- Performs a different function than grounding requirements.
- Protects equipment from high voltage surges from nearby lightning strikes.
- Two stage protection: under 1ns-90V, over 10ns-12V.
- Wide rang of applications: CCTV/CATV system, antenna of television, FM receivers, video camera, monitors multiplexers & quad processor, VCR, etc.

## Coaxial Video Surge Protector BNC Connector

ป้องกันฟ้าผ่า



- BNC male to BNC female, Hi Frequency for both CCTV and CATV use
- Surge Protection Attack Time: 1 ns Maximum
- Surge Current:4 KV
- Surge Life:300 surges of 100Amps
- Normal Resistance Across Coax: 10,000 MΩ
- Surge ResistanceApprox: 0Ω
- BAND PASS: 0~1 GHZ
- Power Passing Capability 130V AC/DC, 65 Vrms at 10Amps Insertion Loss:Less than 0.2 dB
- Return Loss (75 ohms):16dB
- Return Loss (75 ohms): 16dB , WEIGHT: 80g

### Features:

- Performs a different function than grounding requirements.
- Protects equipment from high voltage surges from nearby lightning strikes.
- Two stage protection: under 1ns-90V, over 10ns-12V.
- Wide range of applications: CCTV/CATV system, Antenna of Television, FM receivers, video camera, monitors, multiplexers & Quad processor, VCR...etc.

Part number	Description	Price List
SP001	Coaxial Video Surge Protector BNC Connector	776

## AC Power Surge protection Device Terminal Connector

ป้องกันฟ้าผ่า



- Norminal peak voltage : wire >300V, Wire-grounding: >300V
- Surge current capacity : 6000A (8x20us)
- Surge voltage capacity : 6000V (1.2us x 50 us)
- Max. Load current : 4A (max.)
- Temperature : Operation: 0 to 55 C, Storage: -20 to 85 C, Humidity : Up to 95%
- Material : Metal Black
- Dimension (mm) : 67x87x28.5
- Weight (g) : 140

### Features:

- Performs a different function than grounding requirements.
- Providing protection against lightning stroke for AC power loops.
- Protects equipment from high voltage surges from nearby lightning strikes.
- Providing protection for equipments or instruments with power consumption below 10Amp.
- Terminal connector to terminal connector.
- Application for protect AC220-240V.

Part number	Description	Price List
SP001P-AC220	AC Power Surge protection Device Terminal Connector	1,116

## Power Surge Protector

ป้องกันฟ้าผ่า



- Surge protection attack time : 1 ns
- Maximum surge voltage : 4KV
- Surge life : 300 surges of 100 Amps
- Normal resistance across coax. : 10,000 M Ohm
- Surge resistance : approx. 0 Ohm
- Band Pass : 0-1 GHZ
- Power Passing capability : 130V DC / AC, 65 Vrms at 10 Amps
- Insertion loss (75 ohms) : 16 dB
- Power in put : AC 40 V (Max.), DC 56V(Max)
- Connectors : Terminal
- Dimension (mm) : 65x25x25
- Weight (g) : 65

### Features:

- Performs a different function than grounding requirements.
- Protects equipment from high voltage surges from nearby lightning strikes.
- Two stage protection: 130V, AC/DC 12V
- Wide range of applications: CCTV system, Antenna of Television, satellite receivers, FM receivers, video camera, monitors, multiplexers & Quad processor, VCR, etc.

Part number	Description	Price List
SP001P	Power Surge Protector	836

# SURGE FOR EQUIPMENT

## Video & Power Surge Protector

ป้องกันฟ้าผ่า



front



back

- Surge Protection Attack Time : 1 ns
- Maximum Surge Voltage : 4 KV
- Surge Life : 300 surges of 100Amps
- Normal Resistance Across Coax : 10,000 MΩ
- Surge Resistance : Approx. 0Ω
- BAND PASS : 0~1 GHZ
- Power Passing Capability : 130V DC / AC, 65 Vrms at 10 Amps
- Insertion Loss : Less than 0.2 dB
- Return Loss (75 ohms) : 16dB
- Power IN Put : AC 40V(MAX), DC 56V(MAX)
- Connectors : BNC, Terminal
- Dimensions (mm) : 87x67x27
- Weight (g) : 136

### Features:

- Performs a different function than grounding requirements.
- Protects equipment from high voltage surges from nearby lightning strikes.
- Two stage protection: 130V, AC/DC 12V
- Wide range of applications: CCTV system, Antenna of Television, satellite receivers, FM receivers, video camera, monitors, multiplexers & Quad processor, VCR, etc.
- 3 pin terminal + BNC female to 4 pin terminal + BNC female.
- Two stage protection, AC/DC 130V, AC/DC 12V
- Max power input AC 40V(MAX), DC 56V(MAX).
- Max current up to 2Amp.

Part number	Description	Price List
SP001VP	Video & Power Surge Protector	1,328

## Video, Power, Data Surge Protector

ป้องกันฟ้าผ่า



front



back

- Surge Protection Attack Time : 1 ns
- Maximum Surge Voltage : 4 KV
- Surge Life : 300 surges of 100Amps
- Normal Resistance Across Coax : 10,000 MΩ
- Surge Resistance : Approx. 0Ω
- BAND PASS : 0~1 GHZ
- Power Passing Capability : 130V DC / AC, 65 Vrms at 10 Amps
- Insertion Loss : Less than 0.2 dB
- Return Loss (75 ohms) : 16dB
- Power IN Put : AC 40V(MAX), DC 56V(MAX)
- Connectors : Terminal
- Dimensions (mm) : 87x67x27
- Weight (g) : 136

### Features:

- Performs a different function than grounding requirements.
- Protects equipment from high voltage surges from nearby lightning strikes.
- Two stage protection: 130V, AC/DC 12V
- Wide range of applications: CCTV system, Antenna of Television, satellite receivers, FM receivers, video camera, monitors, multiplexers & Quad processor, VCR, etc.
- 5 pin terminal (data, power, grounding) + BNC female (video) to 4 pin terminal + BNC female.
- Two stage protection, AC/DC 130V, AC/DC 12V
- Max power input AC 40V(MAX), DC 56V(MAX).
- Max current up to 2Amp.

Part number	Description	Price List
SP001VPD	Video, Power, Data Surge Protector	1,620

## Video Surge Protector - F Connector

ป้องกันฟ้าผ่า



- Surge Protection Attack Time : 1 ns
- Maximum Surge Voltage : 4 KV
- Surge Life : 300 surges of 100Amps
- Normal Resistance Across Coax : 10,000 MΩ
- Surge Resistance : Approx. 0Ω
- BAND PASS : 0~1 GHZ
- Power Passing Capability : 130V DC / AC, 65 Vrms at 10 Amps
- Insertion Loss : Less than 0.2 dB
- Return Loss (75 ohms) : 16dB
- Power IN Put : AC 40V(MAX), DC 56V(MAX)
- Connectors : F
- Dimensions (mm) : 78x25x25
- Weight (g) : 80

### Features:

- Performs a different function than grounding requirements.
- Protects equipment from high voltage surges from nearby lightning strikes.
- Two stage protection: under 1ns-90V, over 10ns-12V.
- Wide range of applications: CCTV/CATV system, Antenna of Television, FM receivers, video camera,
- Protects UTP Twisted Pair transmission products.

Part number	Description	Price List
SP002	Video Surge Protector - F Connector	756

# SURGE FOR EQUIPMENT

## Video & Power Surge Protection - F connector

ป้องกันฟ้าผ่า



front



back

- Surge Protection Attack Time : 1 ns
- Maximum Surge Voltage : 4 KV
- Surge Life : 300 surges of 100Amps
- Normal Resistance Across Coax : 10,000 MΩ
- Surge Resistance : Approx. 0Ω
- BAND PASS : 0~1 GHZ
- Power Passing Capability : 130V DC / AC, 65 Vrms at10 Amps
- Insertion Loss : Less than 0.2 dB
- Return Loss (75 ohms) : 16dB
- Power IN Put : AC 40V(MAX), DC56V(MAX)
- Connectors : F, Terminal
- Dimensions (mm) : 87x67x27
- Weight (g) : 136

### Features:

- Performs a different function than grounding requirements.
- Protects equipment from high voltage surges from nearby lightning strikes.
- Two stage protection: under 1ns-90V, over 10ns-12V.
- Wide range of applications: CCTV/CATV system, Antenna of Television, FM receivers, video camera, monitors, multiplexers & Quad processor, VCR...etc.
- 3 pin terminal + F female to 4 pin terminal + F female.
- Two stage protection, AC/DC 130V, AC/DC12V
- Max power input AC 40V(MAX), DC 56V(MAX).
- Max current up to 2Amp.

Part number	Description	Price List
SP002VP	Video & Power Surge Protection - F connector	1,328

## UTP Video Surge Protector RJ45 Connector

ป้องกันฟ้าผ่า



front



back

- Surge Protection Attack Time : 1 ns
- Maximum Surge Voltage : 4 KV
- Surge Life : 300 surges of 100Amps
- Normal Resistance Across Coax : 10,000 MΩ
- Surge Resistance : Approx. 0Ω
- BAND PASS : 0~1 GHZ
- Power Passing Capability : 130V DC / AC, 65 Vrms at10 Amps
- Insertion Loss : Less than 0.2 dB
- Return Loss (75 ohms) : 16dB
- Connectors : RJ45
- Dimensions (mm) : 85x25x25
- Weight (g) : 90

### Features:

- Performs a different function than grounding requirements.
- Protects equipment from high voltage surges from nearby lightning strikes.
- Two stage protection: 130V, AC/DC 12V
- Two pairs protection (pair 2 & pair 4)
- Protects UTP twisted pair transmission products

Part number	Description	Price List
SP003	UTP Video Surge Protector RJ45 Connector	1,268

## UTP Data Surge protection Device Terminal Connector

ป้องกันฟ้าผ่า



front



back

- Surge Protection Attack Time : 1 ns
- Maximum Surge Voltage : 4 KV
- Surge Life : 300 surges of 100Amps
- Normal Resistance Across Coax : 10,000 MΩ
- Surge Resistance : Approx. 0Ω
- BAND PASS : 0~1 GHZ
- Power Passing Capability : 130V DC / AC, 65 Vrms at10 Amps
- Insertion Loss : Less than 0.2 dB
- Return Loss (75 ohms) : 16dB
- Power IN Put : AC 40V(MAX), DC56V(MAX)
- Connectors : Terminal
- Dimensions (mm) : 65x25x25
- Weight (g) : 65

### Features:

- Performs a different function than grounding requirements.
- Protects equipment from high voltage surges from nearby lightning strikes.
- Two stage protection: under 1ns-90V, over 10ns-12V.
- Wide range of applications: CCTV/CATV system, Antenna of Television, FM receivers, video camera, monitors, multiplexers & Quad processor, VCR...etc.
- Terminal connector to terminal connector.
- Perfect for video or data signal protection

Part number	Description	Price List
SP004	UTP Data Surge protection Device Terminal Connector	796

# SURGE FOR EQUIPMENT

## UTP Video, Power, Data Surge Protection

ป้องกันฟ้าผ่า



front



back

- Surge Protection Attack Time : 1 ns
- Maximum Surge Voltage : 4 KV
- Surge Life : 300 surges of 100Amps
- Normal Resistance Across Coax : 10,000 MΩ
- Surge Resistance : Approx. 0Ω
- BAND PASS : 0~1 GHZ
- Power Passing Capability : 130V DC / AC, 65 Vrms at 10 Amps
- Insertion Loss : Less than 0.2 dB
- Return Loss (75 ohms) : 16dB
- Power IN Put : AC 40V(MAX), DC 56V(MAX)
- Connectors : Terminal
- Dimensions (mm) : 87x67x27
- Weight (g) : 136

### Features:

- Performs a different function than grounding requirements.
- Protects equipment from high voltage surges from nearby lightning strikes.
- Two stage protection: 130V, AC/DC 12V
- Wide range of applications: CCTV system, Antenna of Television, satellite receivers, FM receivers, video camera, monitors, multiplexers & Quad processor, VCR, etc.
- Terminal connector to terminal connector.
- Perfect for PTZ camera protection.
- Two stage protection, AC/DC 130V, AC/DC 12V.
- Max power input AC 40V(MAX), DC 56V(MAX).
- Max current up to 2Amp.
- Application for UTP cabling video, power, data protection.
- Could be two data, one power for access control application.

Part number	Description	Price List
SP004VPD	UTP Video, Power, Data Surge Protection	1,508

## Video and Data Surge Protection Device

ป้องกันฟ้าผ่า



front



back

- Surge Protection Attack Time : 1 ns
- Maximum Surge Voltage : 4 KV
- Surge Life : 300 surges of 100Amps
- Normal Resistance Across Coax : 10,000 MΩ
- Surge Resistance : Approx. 0Ω
- BAND PASS : 0~1 GHZ
- Power Passing Capability : 130V DC / AC, 65 Vrms at 10 Amps
- Insertion Loss : Less than 0.2 dB
- Return Loss (75 ohms) : 16dB
- Connectors : Terminal
- Dimensions (mm) : 65x25x25
- Weight (g) : 65

### Features:

- Performs a different function than grounding requirements.
- Protects equipment from high voltage surges from nearby lightning strikes.
- Two stage protection: 130V, AC/DC 12V
- Wide range of applications: CCTV system, Antenna of Television, satellite receivers, FM receivers, video camera, monitors, multiplexers & Quad processor, VCR, etc.

Part number	Description	Price List
SP005	Video and Data Surge Protection Device	1,328

## Network Surge Protection Device

ป้องกันฟ้าผ่า



- Surge Protection Attack Time : 1 ns
- Maximum Surge Voltage : 4 KV
- Surge Life : 300 surges of 100Amps
- Normal Resistance Across Coax : 10,000 MΩ
- Surge Resistance : Approx. 0Ω
- BAND PASS : 0~1 GHZ
- Power Passing Capability : DC 90V, AC 90Vp-p, 65 Vrms at 10 Amps
- Insertion Loss : Less than 0.2 dB
- Return Loss (75 ohms) : 16dB
- Connectors : RJ45
- Dimensions (mm) : 87x67x27
- Weight (g) : 126

### Features:

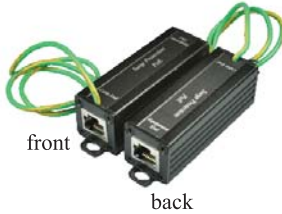
- Performs a different function than grounding requirements.
- Protects equipment from high voltage surges from nearby lightning strikes.
- Two stage protection: under 100ns-90V, over 100ns-12V.
- Wide range of applications: CCTV system, Antenna of Television, satellite receivers, FM receivers, video camera, monitors, multiplexers & Quad processor, VCR, etc.

Part number	Description	Price List
SP006-K	Network, IP Surge Protector, RJ45 Connector	2,416

# SURGE FOR EQUIPMENT

## PoE Surge Protector

ป้องกันฟ้าผ่า



- Surge Protection Attack Time : 1 ns
- Maximum Surge Voltage : 4 KV
- Surge Life : 30000 surges@4KV
- Normal Resistance Across Coax : 10,000 MΩ
- Surge Resistance : Approx. 0Ω
- BAND PASS : 0~1 GHZ
- Power Passing Capability : 130V DC / AC, 65 Vrms at 10 Amps
- Insertion Loss : Less than 0.2 dB
- Return Loss (75 ohms) : 16dB
- Connectors : RJ45
- Dimensions (mm) : 85x25.4x25.4
- Weight (g) : 80

### Features:

- Performs a different function than grounding requirements.
- Protects equipment from high voltage surges from nearby lightning strikes.
- RJ45 Jack to RJ45 Jack
- Power and signal line protection.
- 10/100 Base-T CAT5/CAT5e compatible.
- 802.3af POE (Power over Ethernet) compatible.
- Application for POE (Power over Ethernet) protection.

Part number	Description	Price List
SP006P-K	PoE Surge Protector (RJ45)	2,416

## HD-SDI Surge Protection Device BNC Connector

ป้องกันฟ้าผ่า



- Equipment Connector : BNC MALE (75 Ohms)
- Cable Connector : BNC FEMALE (75 Ohms)
- Transmission Rate : 2.97Gb/s (Max)
- Insertion Loss : 1.1dB @ 2.97Gb/s
- Resisting Surge : 8KV (Max)
- Discharging Current : 10KA (Max)
- Dimensions (mm) : 75.5x25.4x25.4
- Weight (g) : 68

### Features:

- BNC male to BNC female.
- Provide protection for HD CCTV, broadcasting devices.
- SDI transmission rate: 270M ~ 2.97G
- Resisting surge : 8KV (Max)
- Discharging current: 10KA (Max)

Part number	Description	Price List
SP007	HD-SDI Surge Protection Device BNC Connector	1,636

## Video Surge Protector for DVR in 1U Rack Mounting Panel

### SP016C

For RACK 19"  
แบบ BNC

- Surge Protection Attack Time : 1 ns
- Maximum Surge Voltage : 4 KV
- Surge Life : 300 surges of 100Amps
- Normal Resistance Across Coax : 10,000 MΩ
- Surge Resistance : Approx. 0Ω
- BAND PASS : 1 GHZ
- Power Passing Capability : 130V AC / DC, 65 Vrms at 10 Amps**
- Insertion Loss : Less than 0.2 dB
- Return Loss (75 ohms) : 16dB
- Connectors : BNC
- Dimensions (mm) : 482x170x44 (Standard 1U Rack Panel)
- Weight (g) : 1200

### Features:

- Performs a different function than grounding requirements.
- Protects equipment from high voltage surges from nearby lightning strikes.
- Two stage protection: under 100ns-90V, over 100ns-12V.
- Wide range of applications: CCTV system, Antenna of Television, satellite receivers, FM receivers, video

Part number	Description	Price List
SP016C	Video Surge Protector for DVR in 1U Rack Mounting Panel	11,392

SP016C



Video Surge Protector for DVR in 1U Rack Mounting Panel



# SURGE FOR EQUIPMENT

## Video Surge Protector for DVR in 1U Rack Mounting Panel

ป้องกันฟ้าผ่า

For RACK 19"

แบบ Terminal

- Surge Protection Attack Time : 1 ns
- Maximum Surge Voltage : 4 KV
- Surge Life : 300 surges of 100Amps
- Normal Resistance Across Coax : 10,000 MΩ
- Surge Resistance : Approx. 0 Ω
- BAND PASS : 0-1 GHZ
- Power Passing Capability : DC 90V, AC 90Vp-p, 65 Vrms at 10 Amps**
- Insertion Loss : Less than 0.2 dB
- Return Loss (75 ohms) : 16dB
- Connectors : **Terminal**
- Dimensions (mm) : 482x170x44 (Standard 1U Rack Panel)
- Weight (g) : 1200

### Features:

- Performs a different function than grounding requirements.
- Protects equipment from high voltage surges from nearby lightning strikes.
- Two stage protection: under 100ns-90V, over 100ns-12V.
- Wide range of applications: CCTV system, Antenna of Television, satellite receivers, FM receivers, video



Video Surge Protector for DVR in 1U Rack Mounting Panel

แบบ Terminal

Part number	Description	Price List
SP016T	Video Surge Protector for DVR in 1U Rack Mounting Panel	11,392

## Video Surge Protector for NVR in 1U Rack Mounting Panel

ป้องกันฟ้าผ่า  
สำหรับกล่อง IP

- Operating Temperature -40 to 85 °C
- Connectors: 16 x RJ45 to 16 RJ45
- Connectors : **RJ45**
- Dimensions (mm) : 483x170x44 (Standard 1U Rack Panel)
- Weight (g) : 2200

### Features:

- 16 x RJ45 Jack to 16x RJ45 Jack.
- 10/100/1000 Base-T CAT5/CAT5e compatible.

Parameter	Sym-bal	Test Conditions	Min	Typ	Max	Units
Reverse Standoff Voltage	VRWM	IR<= 1uA			6.0	V
Reverse Voltage Drop	VR	IR=1mA		8.0		V
Reverse Leakage Current	ILEAK	VR=5V		0.1	0.5	um
Clamp Voltage	VC	IPP=1A, tP=8/20uS, I/O to GND		8.8	10.0	V
		IPP=5A, tP=8/20uS, I/O to GND		11.5	13.0	V
		IPP=8A, tP=8/20uS, I/O to GND		13.2	15.0	V
Dynamic Resistance	RDYN	(VC2-VC1) / (IPP2-IPP1)		0.7		Ohm
ESD Withstand Voltage	VESD	IEC61000-4-2 (Contact)	+20			KV
		IEC61000-4-2 (Air)				KV



Part number	Description	Price List
SP016N	16 Channel Network Surge Protector for NVR in 1U Rack mounting Panel	16,252

# SURGE FOR EQUIPMENT

## Video Surge Protector for DVR in 1U Rack Mounting Panel

For RACK 19"

แบบ RJ45 PoE  
สำหรับกล่อง IP

- Respective Peak Off - Stage Voltage VDRM@IDRM=5μ: 58V
- Switching Voltage VS@100V: 77 V
- Minimum Holding Current: 150 IH mA
- Switching Current: 800 Is mA
- On Stage Current: 2.2 IT A
- Operating Temperature -40 to 85 °C
- Conectors : **16xRJ45 to 16 RJ45**
- Dimensions (mm) : 483x170x44 (Standard 1U Rack Panel)
- Weight (g) : 2200

### Features:

- 16 x RJ45 Jack to 16x RJ45 Jack
- Application for 16 channel POE hub (Power over Ethernet) protection.
- 10/100/1000 Base-T CAT5/CAT5e compatible.
- Support Mid-Span POE and End Span POE.
- 802.3af POE compatible.



Part number	Description	Price List
SP016P	16 Channel POE Surge Protector for POE Hub in 1U Rack Mounting Panel	17,932

## SP016P



## SP016C

