



Table of Contents

HD-TVI/AHD/HDCVI/CVBS Transmission

Twisted Pair Solution	1
HD-TVI/AHD/HDCVI/CVBS Twisted Pair Transmission Chart.....	1
Passive Transmission.....	1
Active Transmission.....	3
HD CCTV over Coaxial Cable Solution	4
Distributor/Distribution Amplifier, Extend and Distribute Camera footage.....	4
Extender	6
Converter	8
Video Ground Loop Isolator	11
Video Ground Loop Isolator	11
Video Ground Loop Isolator	11
Surge Protector	12

IP/PoE Transmission

IP over CAT5e/IP over Coaxial (EoC)/IP over Fiber Extender	14
IP over CAT5e Extender/Repeater.....	14
IP over Coaxial Extender.....	15
IP over Fiber Extender.....	15
PoE over CAT5e/PoE over Coaxial (PoC) Extender	16
PoE over CAT5e Extender.....	16
PoE over Coaxial Cable Extender	18
PoE Injector/Splitter/Switch.....	19
IP/PoE/PoC Surge Protector	20
IP Surge Protector.....	20
PoE Surge Protector.....	21
PoC Surge Protector.....	23
12G/6G/3G/HD SDI to HDMI Converter.....	24
HDMI to 12G/6G/3G/HD/SD-SDI Converter.....	25
SDI Surge Protector	25

SDI Transmission

25

HDMI/DVI/VGA KVM Matrix over IP Transmission

26

HDMI Transmission

HDMI Extender	29
HDMI over CAT5e 1080p 40m Extender.....	29
4K HDMI over HDBaseT Extender	30
HDBaseT Tools	33
HDMI over IP Extender	34
HDMI over Fiber Extender	36
HDMI over Coaxial Transmission	37
HDMI Distributor Amplifier	38

HDMI Distribution Amplifier CAT5e Extender-----	39
HDMI Switcher -----	40
HDMI Matrix Switcher -----	41
HDMI Tools: Audio Extractor/Converter/Repeater/Surge Protector-----	44

DisplayPort/DVI Transmission

DisplayPort Transmission -----	45
DVI Extender-----	47

VGA/CATV Transmission

VGA/CATV Transmission-----	48
VGA CAT5e Extender.....	48
VGA Distributing CAT5e Extender.....	50

Audio Transmission

Microphone -----	52
Audio Extender -----	52
Audio Tools -----	53

IR/USB/Data Transmission

IR Repeater -----	54
IR Receiver-----	54
IR Emitter (E: Invisible, F: Visible Red) -----	54
IR 1 X 4 Repeater Distribution Kit -----	54
IR Receiver & Blaster -----	54
USB CATX Extender-----	55
Data Converter-----	56
Data Repeater/Extender -----	57
Data Distributor-----	58

Power Center

Power Converter & Distributor Box -----	59
Power Supply in Rack Panel Mounting/Wall Mounting -----	59
Power Adapter-----	60
Power Surge Protector -----	61

Accessories

Cable-----	62
Tool -----	62
Parts -----	63
Connectors (Package: 100pcs/bag) -----	64

HD-TVI/AHD/HDCVI/CVBS Transmission

Twisted Pair Solution

Using Twisted Pair cable to Transmit HD CCTV signals, instead of coaxial cable

HD-TVI/AHD/HDCVI/CVBS Twisted Pair Transmission Chart

Transmitter	Receiver	HD-TVI			AHD			HDCVI			CVBS
		720p	1080p	4K	720p	1080p	4K	720p	1080p	4K	
Passive	Passive	150m	150m	150m	200m	200m	200m	400m	250m	250m	400m
	Active	300m	250m	N/A	500m	450m	300m	400m	300m	250m	600m
Active	Passive	200m	200m	300m	500m	400m	350m	400m	300m	250m	600m
	Active	400m	400m	N/A	600m	500m	N/A	600m	400m	250m	900m

Passive Transmission

Balun HD Passive Twisted Pair 150m~250m

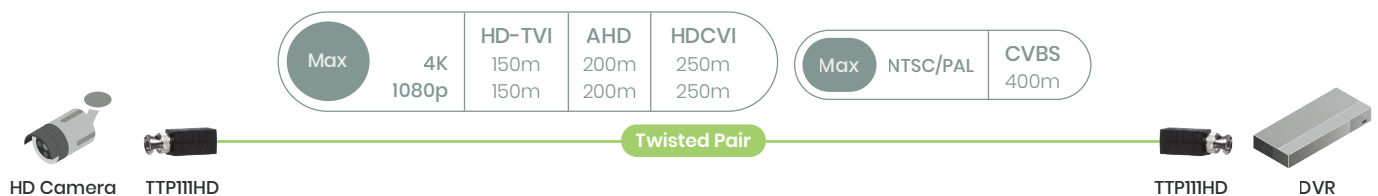
TTP111HD 4K HD-TVI/AHD/HDCVI/CVBS Passive Twisted Pair Video Balun 150m~250m



TTP111HD

BNC male to screw terminal. To send HD-TVI / AHD / HDCVI / CVBS signals.

- Passive, no power required
- Cable: UTP CAT5e or higher



Balun HD Passive Pigtail Twisted Pair 150m~250m

TTP111HDL 4K HD-TVI/AHD/HDCVI/CVBS Passive Twisted Pair Pigtail Video Balun 150m~250m



TTP111HDL

Identical to TTP111HD, but with 10cm mini coaxial cable for easy mounting behind DVR.

- Passive, no power required
- Cable: CAT5e UTP or higher
- Specification refers to TTP111HD



Balun HD Passive Pigtail Twisted Pair 150m~250m Set Package

TTP111HDLK 4K HD-TVI/AHD/HDCVI/CVBS Passive Twisted Pair Video Balun Kit 150m~250m



TTP111HDLK
(TTP111HD + TTP111HDL)

Set package, include TTP111HD and TTP111HDL

- Specification refers to TTP111HD

Balun HD Passive RJ45 CAT5e 150m~250m

TTP111V 4K HD-TVI/AHD/HDCVI/CVBS Video Balun RJ45 Connector 150m~250m



TTP111V

Identical to TTP111HD, but with RJ45 connector for easily plugging in.

- Passive, no power required

HD-TVI/AHD/HDCVI/CVBS Transmission

Max	4K 1080p	HD-TVI	AHD	HDCVI	Max	NTSC/PAL	CVBS 300m
		100m 100m	200m 150m	200m 200m			

Balun Power Injector Power Splitter HD Passive RJ45 CAT5e 150m~250m

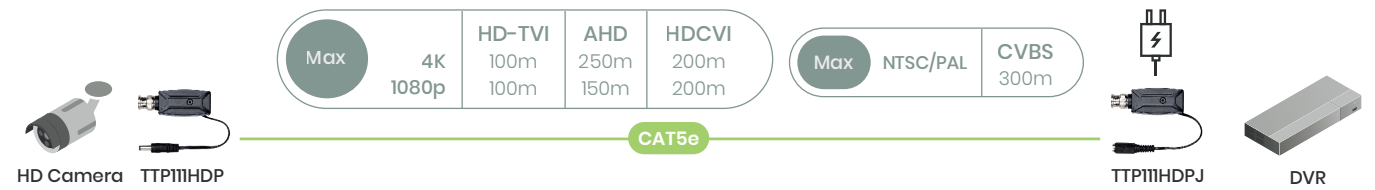
TTP111HDPK 4K HD-TVI/AHD/HDCVI/CVBS Passive Twisted Pair Video & Power Balun 150m~250m

To send HD-TVI/AHD/HDCVI/CVBS video and power (3 pairs) over one CAT5e cable.

- Built with DC plug/jack for power transmission
- Male BNC to RJ45 connector design
- Built-in ESD, EFT, and transient protection
- Cable: CAT5e UTP or higher
- Power connector: $\varnothing 2.1\text{mm} \times 5.5\text{mm}$
- The balun does not need power, power is for camera



TTP111HDPK
(TTP111HDP + TTP111HDPJ)



Balun Power Injector Power Splitter HD Passive RJ45 Pigtail CAT5e 100m~150m

TTP111HDP-LK 4K HD-TVI/AHD/HDCVI/CVBS Passive Twisted Pair Video & Power Pigtail Balun 100m~150m

Identical to TTP111HDPK, but with 12cm mini coaxial cable for easy mounting.

- Built with DC plug/jack for power transmission
- Male BNC to RJ45 connector design
- Built-in ESD, EFT, and transient protection
- Cable: CAT5e UTP or higher
- Power connector: $\varnothing 2.1\text{mm} \times 5.5\text{mm}$
- The balun does not need power, power is for camera



TTP111HDP-LK
(TTP111HDP-L + TTP111HDPJ-L)

Max	4K 1080p	HD-TVI	AHD	HDCVI	Max	NTSC/PAL	CVBS 300m
		- 100m	150m 150m	100m 200m			

Balun Power Injector Power Splitter HD Passive RJ45 Pigtail CAT5e 100m~250m

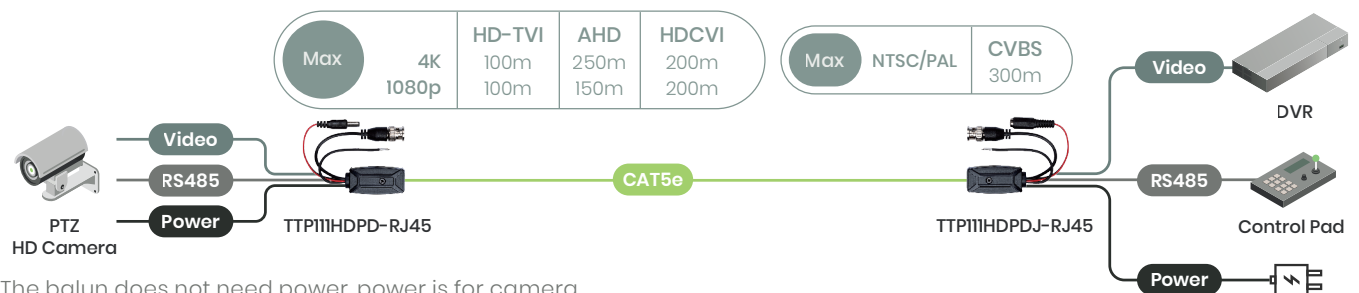
TTP111HDPD-RJ45-K 4K HD-TVI/AHD/HDCVI/CVBS Passive Twisted Pair Video & Power & Data Balun 100m~250m

To send HD-TVI/AHD/HDCVI/CVBS video and power (2 pairs) and RS485 data (for PTZ camera) over one CAT5e cable.

- Built with DC plug/jack, and 2 bare wire for power & RS485 transmission
- Male BNC to RJ45 connector design
- Built-in ESD, EFT (impulse noise) and transient protection
- Cable: CAT5e UTP or higher
- Power connector: $\varnothing 2.1\text{mm} \times 5.5\text{mm}$



TTP111HDPD-RJ45-K
(TTP111HDPD-RJ45 + TTP111HDPD-RJ45)



The balun does not need power, power is for camera

HD-TVI/AHD/HDCVI/CVBS Transmission

Balun HD Passive 4 to 4 Twisted Pair 150m~250m

TTP414HD 4K HD-TVI/AHD/HDCVI/CVBS Passive Twisted Pair 4 Port Video Transceiver 150m~250m



TTP414HD

Identical to TTP111HD, but with 4 ports.

- RJ45 connector or push pin terminal selection
- Cable: CAT5e UTP or higher



HD Camera x 4

Balun HD Passive 16 to 16 Twisted Pair 150m~250m

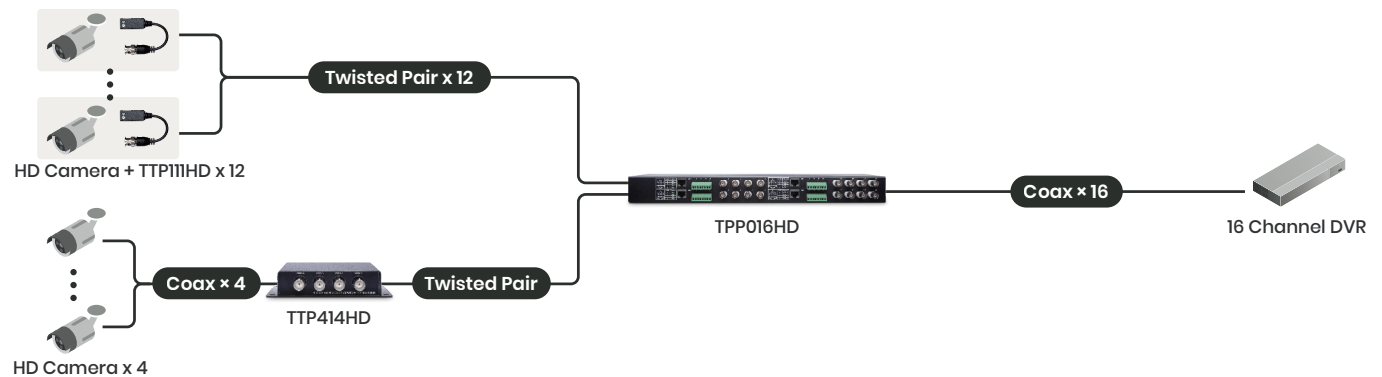
TPP016HD 4K HD-TVI/AHD/HDCVI/CVBS Passive Twisted Pair Video 16 Port Transceiver in 1U Rack 150m~250m



TPP016HD

Identical to TTP111HD, but with 16 channel in 1U rack mounting panel.

- RJ45 connector or screw terminal selection
- could use with TTP111HD, TTP414HD
- Specification Refers to TTP414HD



HD Camera x 4

Active Transmission

Transmitter Active Twisted Pair 250m

TTA111HDT 4K HD-TVI/AHD/HDCVI/CVBS Twisted Pair Active Transmitter 250m



TTA111HDT

To amplifier and send HD-TVI/AHD/HDCVI/CVBS over CAT5e cable.

- Built-in L, M, and H three-stage high frequency video gain
- Built-in transient protection and ground lifting, damaging voltage spike problems are eliminated
- Cloud use with SC&T's passive balun(Ex. TTP111HD)
- Cable: CAT5e UTP or higher



HD Camera

TTA111HDT

TTP111HD

DVR

HD-TVI/AHD/HDCVI/CVBS Transmission

Receiver Active Twisted Pair 250m

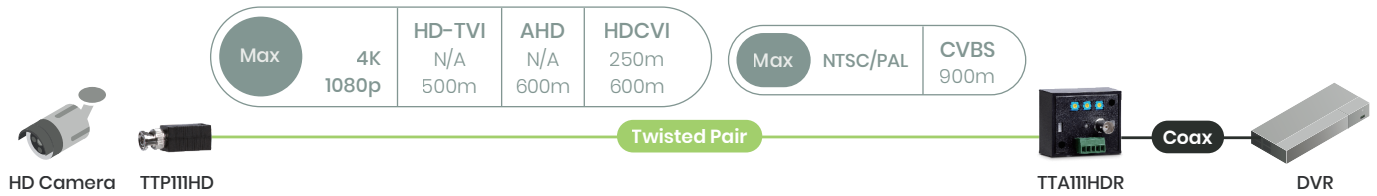
TTA111HDR 4K HD-TVI/AHD/HDCVI/CVBS Twisted Pair Active Receiver 250m



TTA111HDR

To amplify and receive HD-TVI/AHD/HDCVI/CVBS over CAT5e cable.

- Built-in middle frequency, high frequency and brightness adjustment
- Allow using one power adapter for multiple receivers
- Cloud use with SC&T's passive balun(Ex. TTP111HD)
- Cable: CAT5e UTP or higher



Rack 2U

TPN008 19" 2U Rack Mounting Panel

Standard 2U Rack for up to 8 piece of TTA111HDT/TTA111HDR or CD102HD/CA101HD

- Wide: 19-inch (482mm), Height: 3.5-inch (88mm)



TPN008

HD CCTV over Coaxial Cable Solution

Distributor/Distribution Amplifier, Extend and Distribute Camera footage

Distributor HD Coax 1 to 2

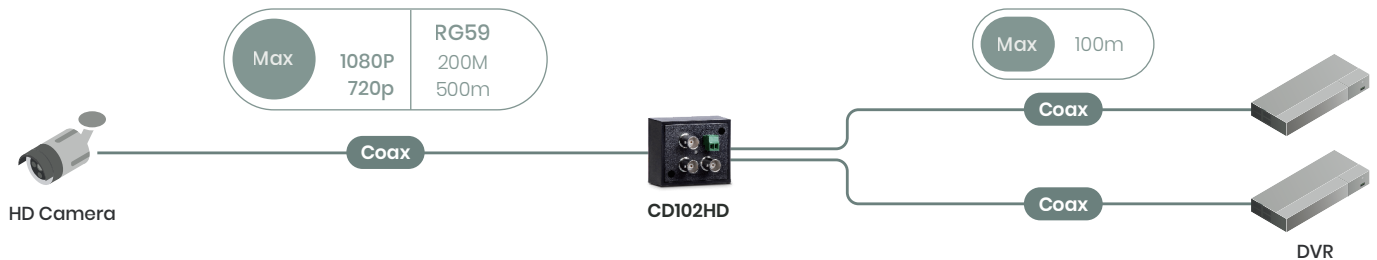
CD102HD 4K HD-TVI/AHD/HDCVI/CVBS 1 x 2 Video Distributor

1 video input to 2 video output.

- Built-in TVS protection



CD102HD



Distributor Amplifier CVBS Coax 1 to 2

CD102A CVBS 1 x 2 Video Distributioin Amplifier

1 video input to 2 video output with amplifier function.

- 10dB adjustable image gain
- High frequency compensation
- Sharpness and brightness adjustment



CD102A



Distributor HD Coax 1 to 4

CD104HD 4K HD-TVI/AHD/HDCVI/CVBS 1 x 4 Video Distributor

1 video input to 4 video output.

- Support UTC data control (Up The Coax)
- Built-in TVS protection
- Resolution: up to 4K



CD104HD

Distributor HD Coax 1 to 8

CD108HD 4K HD-TVI/AHD/HDCVI/CVBS 1 x 8 Video Distributor

1 video input to 4 video output.

- Support UTC data control (Up The Coax)
- Built-in TVS protection
- High frequency
- Resolution: up to 4K
- Specification Refers to CD104HD



CD108HD

Distributor HD Coax 4 to 8

CD408HD 4K HD-TVI/AHD/HDCVI/CVBS 4 x 8 Video Distributor

4 video input to 8 video output.

- Support UTC control (Up The Coax)
- Built-in TVS protection
- Resolution: up to 4K
- Transmission distance:
 - up to 500m at 720p RG59, from Camara to distributor
 - up to 200m at 1080p RG59, from Camara todistributor
 - up to 100 from distributor to DVR



CD408HD

Distributor HD Coax 8 to 16

CD816HD 4K HD-TVI/AHD/HDCVI/CVBS 8 x 16 Video Distributor in 1U Rack

8 video input to 16 video output.

- Built-in TVS protection
- Resolution: up to 4K
- Specification Refers to CD102HD



CD816HD

Distributor HD Coax 16 to 32

CD1632HD 4K HD-TVI/AHD/HDCVI/CVBS 16 x 32 Video Distributor in 1U Rack

16 video input to 32 video output.

- Built-in TVS protection
- Resolution: up to 4K
- Specification Refers to CD102HD



CD1632HD

Distributor Amplifier CVBS Coax 16 to 32

CD1632A CVBS 16 x 32 Video Distribution Amplifier in 2U Rack



CD1632A

16 video input to 32 video output with amplifier function

- 10dB adjustable image gain
- High frequency compensation
- Sharpness and brightness adjustment
- Specification refers to CD102A

Distributor CVBS Coax 16 to 32

CD1664HD 4K HD-TVI/AHD/HDCVI/CVBS 16 x 64 Video Distributor in 2U Rack



CD1664HD

16 video input to 64 video output. (16 sets 1 in 4 out video distributor)

- Support UTC control (Up The Coax)
- Built-in TVS protection.
- Resolution: up to 4K
- Specification refers to CD104HD

Extender

Extend your HD CCTV signals further, save cables in between

Amplifier HD Coax 600m~800m

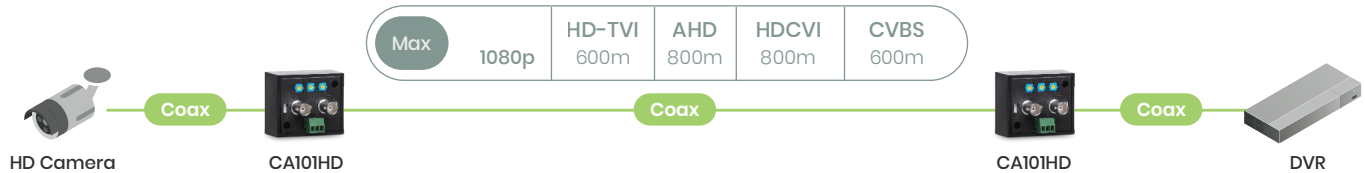
CA101HD HD-TVI/AHD/HDCVI/CVBS Video Amplifier 600m~800m



CA101HD

To boost HD-TVI/AHD/HDCVI/CVBS signals for longer distance over coaxial cable.

- Built-in middle frequency, high frequency and brightness adjustment



Extender HD 5MP RS485 Fiber FC 2km~20km

HD401F-5M HD-TVI/AHD/HDCVI/CVBS with RS485 Fiber Extender 2km~20km



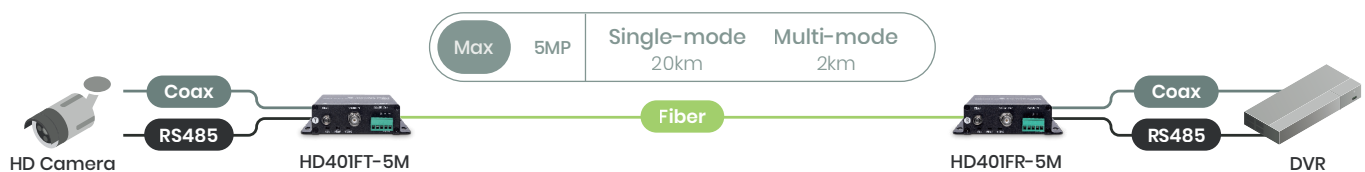
HD401FT-5M



HD401FR-5M

To send HD-TVI/AHD/HDCVI/CVBS and RS485 data signal over fiber cable.

- Digital and non-compression coding technology
- Plug and play
- Cable: Single or Multi-mode Fiber with FC (Ferrule Connector)
- Max resolution: 5MP (2560 x 1920)



HD-TVI/AHD/HDCVI/CVBS Transmission

Extender HD 5MP RS485 4 camaras with 1 Fiber Fiber FC 2km~20km

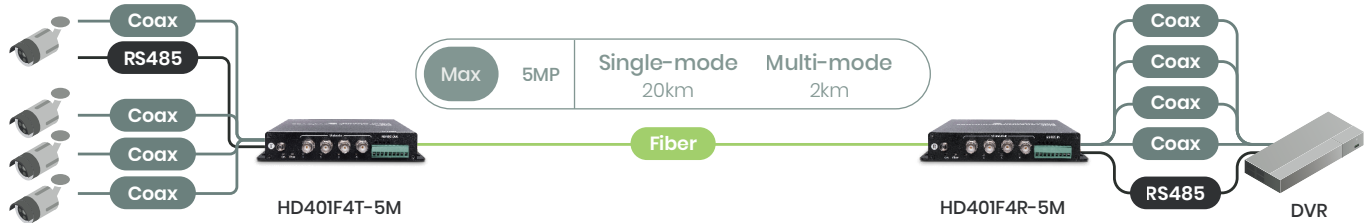
HD401F4-5M HD-TVI/AHD/HDCVI/CVBS 4 Port with RS485 Fiber Extender 2km~20km

Identical to HD401F-5M, but support 4 video input and 4 video output.
• Specification Refers to HD401F-5M



HD401F4T-5M

HD401F4R-5M



Extender HD 5MP RS485 8 camaras with 1 Fiber Fiber FC 2km~20km

HD401F8-5M HD-TVI/AHD/HDCVI/CVBS 8 Port with RS485 Fiber Extender 2km~20km

Identical to HD401F-5M, but support 8 video input and 8 output.
• Specification Refers to HD401F4-5M



HD401F8T-5M

HD401F8R-5M

Converter

Convert HD CCTV signal to usual monitors

Converter HD to HDMI/VGA/CVBS 4K Simultaneous 1080p

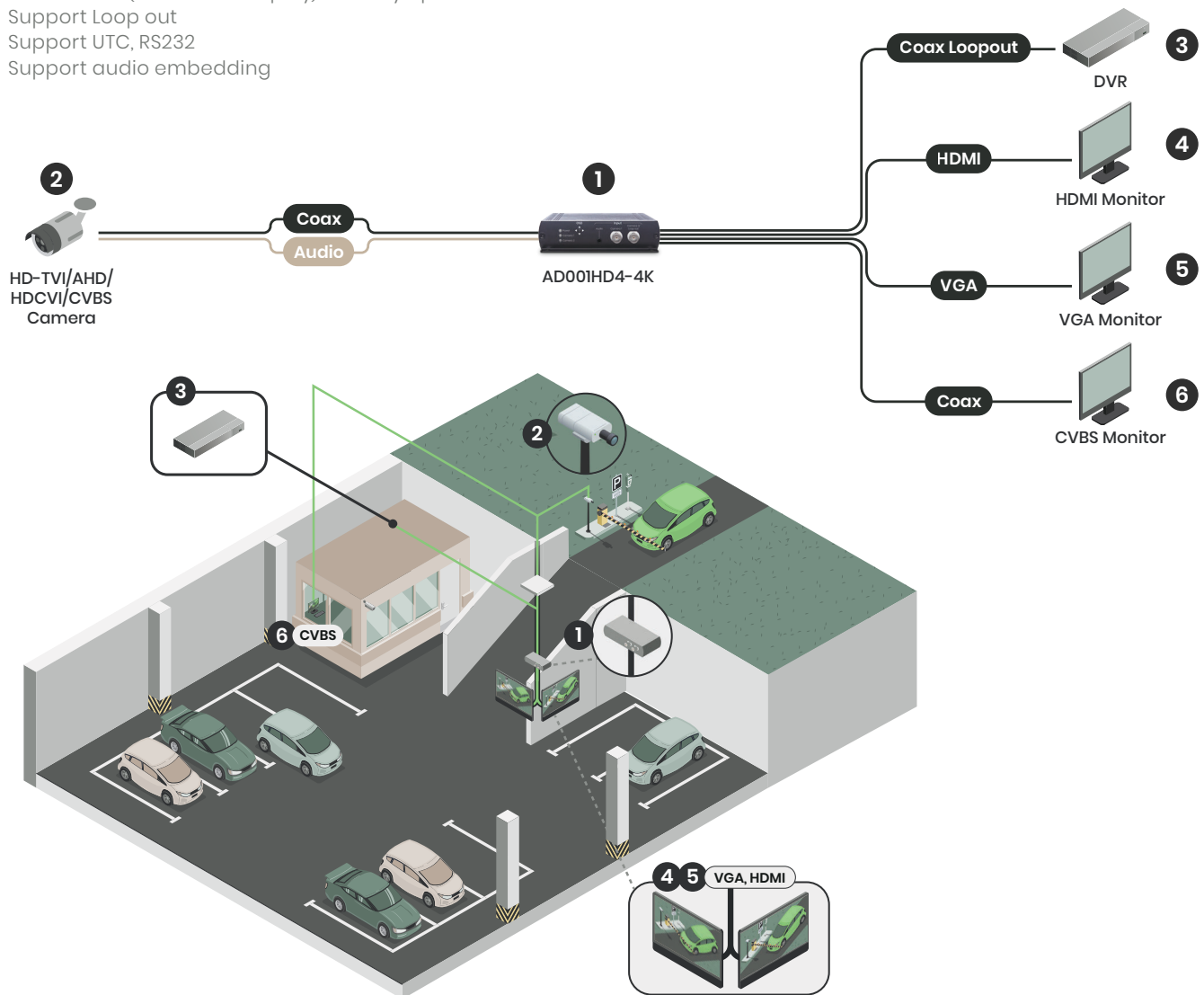
AD001HD4-4K 4K HD-TVI/AHD/HDCVI/CVBS to HDMI/VGA/CVBS Converter with Loop Out

To convert 4K HD-TVI/AHD/HDCVI/CVBS signal to HDMI/VGA/CVBS.

- 3 outputs (HDMI,VGA,CVBS) be displayed simultaneously
- 3 functions of second BNC connector: loop out, CVBS out, camera input
- Built-in PIP (Picture in Picture) under 2 camera input mode
- Built-in underscan adjustment for CVBS output
- Built-in OSD (On Screen Display) for easy operation
- Support Loop out
- Support UTC, RS232
- Support audio embedding



AD001HD4-4K



Input	Resolution	HD-TVI	AHD	HDCVI	
	8MP (4K)	12.5/15 FPS	15 FPS	15 FPS	
	6MP	N/A	N/A	20 FPS	
	5MP	12.5/20 FPS	20 FPS	N/A	
	4MP	25/30 FPS	25/30 FPS	25/30 FPS	
Output	Resolution	HDMI	VGA	CVBS	
	4K, 2K	30/25 Hz	N/A	N/A	
	2160p	30/25 Hz	N/A	N/A	
	1080p	60/50 Hz	50/60 Hz	N/A	
	1080i	60/50 Hz	50/60 Hz	N/A	

HD-TVI/AHD/HDCVI/ CVBS Transmission

Converter

HD to HDMI/VGA/CVBS

Simultaneous

1080p

AD001HD4

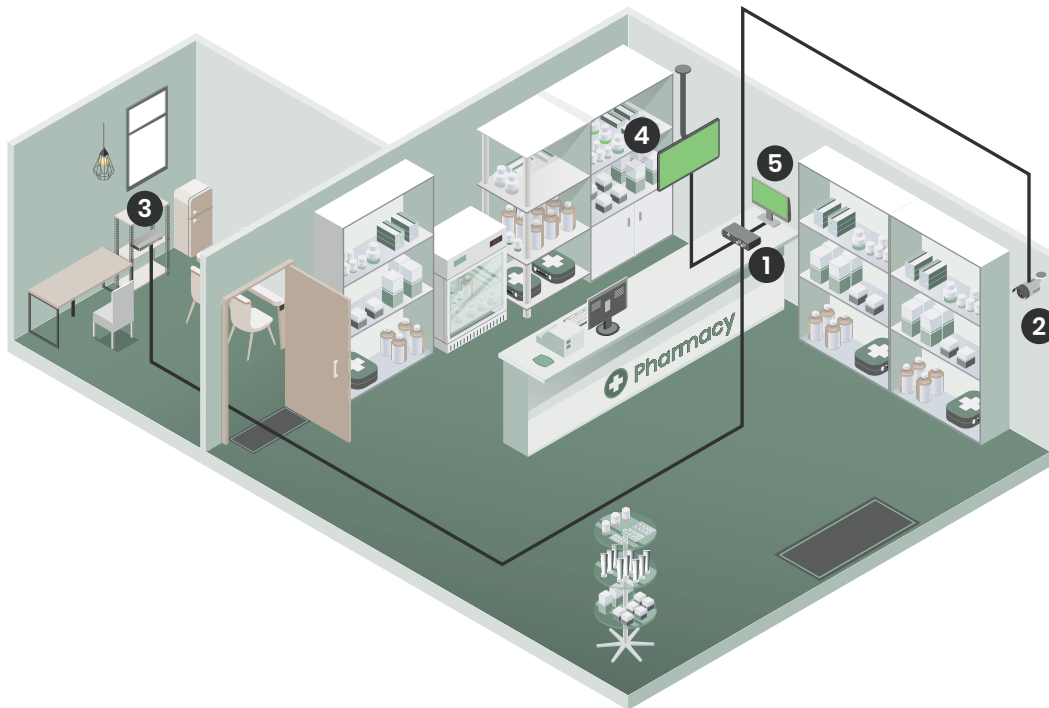
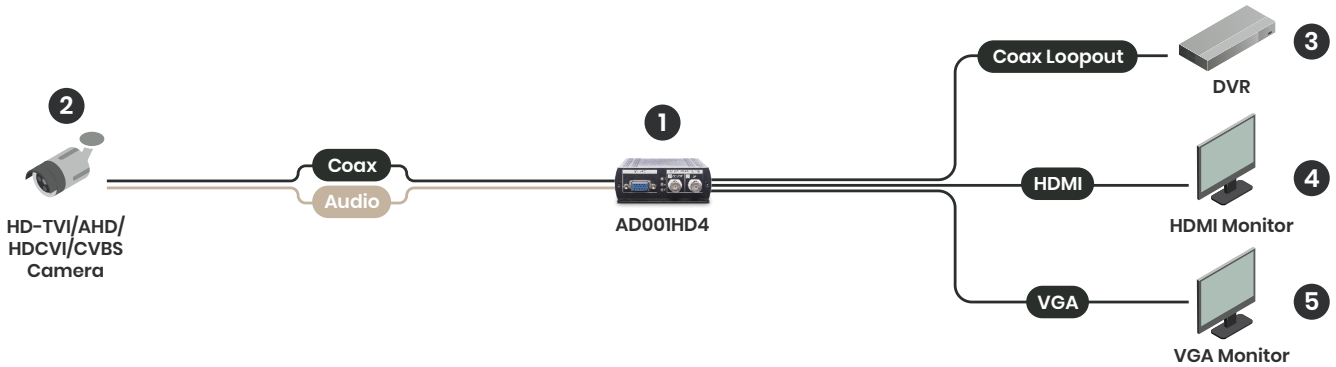
HD-TVI/AHD/HDCVI/ CVBS to HDMI/VGA/CVBS Converter with Loop Out

To convert HD-TVI/AHD/HDCVI/ CVBS signal to HDMI/VGA/CVBS.

- 3 outputs (HDMI,VGA,CVBS) be displayed simultaneously
- 3 functions of second BNC connector: loop out, CVBS out, camera input
- Built-in PIP (Picture in Picture) under 2 camera input mode
- Built-in underscan adjustment for CVBS output.
- Built-in OSD (On Screen Display) for easy operation
- Support Loop out



AD001HD4



Input	Resolution	HD-TVI	AHD	HDCVI	CVBS
	1080P	25/30 FPS	25/30 FPS	25/30 FPS	
	720P	25/30/50/60 FPS	25/30/50/60 FPS	25/30/50/60 FPS	
	NTSC/PAL				50/60 Hz
Output	Resolution	HDMI	VGA		CVBS
	1080P	50/60 Hz	50/60 Hz		
	1080i	50/60 Hz	50/60 Hz		
	NTSC/PAL				50/60 Hz

Converter HD to HDMI/VGA/CVBS 1080p either one

AD001HDE HD-TVI/AHD/HDCVI/CVBS to HDMI/VGA/CVBS Selection Converter with Loop Out

Identical to AD001HD4, but only 1 output port (HDMI, VGA, CVBS) can be selected at once.
 • Support Loop out



AD001HDE

Input	Resolution	HD-TVI	AHD	HDCVI	CVBS
	1080P	25/30 FPS	25/30 FPS	25/30 FPS	
	720P	25/30/50/60 FPS	25/30/50/60 FPS	25/30/50/60 FPS	
	NTSC/PAL				50/60 Hz
Output	Resolution	HDMI	VGA	CVBS	
	1080P	50/60 Hz	50/60 Hz		
	1080i	50/60 Hz	50/60 Hz		
	NTSC/PAL				50/60 Hz

Converter HD to CVBS 1080p

AD001HD1 HD-TVI/AHD/HDCVI to CVBS Converter with Loop Out

To convert HD-TVI/AHD/HDCVI signal to CVBS video.
 • HD Loop out support UTC data control (Up The Coax)
 • Built-in OSD (On Screen Display) for easy operation



AD001HD1

Input	Resolution	HD-TVI	AHD	HDCVI	CVBS
	1080P	25/30 FPS	25/30 FPS	25/30 FPS	
	720P	25/30/50/60 FPS	25/30/50/60 FPS	25/30/50/60 FPS	
	NTSC/PAL				50/60 Hz
Output	Resolution	HDMI	VGA	CVBS	
	1080P	50/60 Hz	50/60 Hz		
	1080i	50/60 Hz	50/60 Hz		
	NTSC/PAL				50/60 Hz

Converter CVBS to VGA

AD001H CVBS to VGA Converter with Loop Out

To convert CVBS video to VGA monitor
 • Support loop out
 • Auto detection of NTSC/PAL system
 • Built-in video auto gain function for good quality picture
 • Built-in OSD(on screen display) for easy adjustment.
 • Built-in ESD protection



AD001H

Input	Resolution	CVBS
	NTSC/PAL	50/60 Hz
Output	Resolution	VGA
	1280 x 1024	60 Hz

Video Ground Loop Isolator

Video Ground Loop Isolator

Video Isolator HD Coax/Coax 4K Camera

GL001HDP 4K HD-TVI/AHD/HDCVI/CVBS Ground Loop Isolator

To eliminate ground loop which leads to distortion of video such as tearing, cross talk, rolling

- No power is required.
- Support high resolution up to 4K
- Video format: HD-TVI, AHD, HDCVI, CVBS
- Connector: BNC male to BNC female 75Ω
- Bandwidth: 25Hz ~ 50MHz (-3dB)



GL001HDP

Video Isolator CVBS Coax/Coax Camera

GL001 CVBS Ground Loop Isolator

To eliminate ground loop which leads to distortion of video such as tearing, cross talk, rolling

- No power required.
- Built-in TVS
- Video format: CVBS
- Connector: BNC male to BNC male 75Ω



GL001

Video Isolator CVBS Coax/Coax High Performance Camera

GL001H High Performance CVBS Ground Loop Isolator

To eliminate ground loop which leads to distortion of video such as tearing, cross talk, rolling

- Low video loss
- No power required
- Built-in TVS
- Video format: CVBS
- Connector: BNC male to BNC male 75Ω
- Bandwidth: 20Hz ~ 11MHz (-3dB)



GL001H

Video Isolator CVBS Coax/Twisted Pair Camera

TGP001H High Performance CVBS Video Ground Loop Isolator

- Identical to GL001H, but with BNC male to terminal block with 20cm mini coaxial cable.



TGP001H

Video Isolator CVBS Coax/Coax Built-in Balun Camera

GB001 CVBS Ground Loop Isolator Built-in Video Balun

- Identical to GL001, but built-in video balun for video balance and extra interference rejection



GB001

Video Isolator CVBS Coax/Coax Built-in Balun Camera

GL001HP-1A HD-TVI/AHD/HDCVI/CVBS Power Isolator 1A

To eliminate ground loop which is caused by power cables laid together with video/data cables, support power output to 1A.

- Support UTC control (Up The Coax)



GB001

Video Filter CVBS DVR

CB001VH CVBS Balun for DVR

• Built-in a highly balanced mode of video transmission, which is immune to interference from these, and other sources of noise: Data signals, other video signals, nearby power, ringing telephones, fluorescent lights, transformers, and more...

- Video format: CVBS
- Connector: BNC male to BNC female 75Ω



CB001VH

Surge Protector

Surge protector HD 4K BNC/BNC

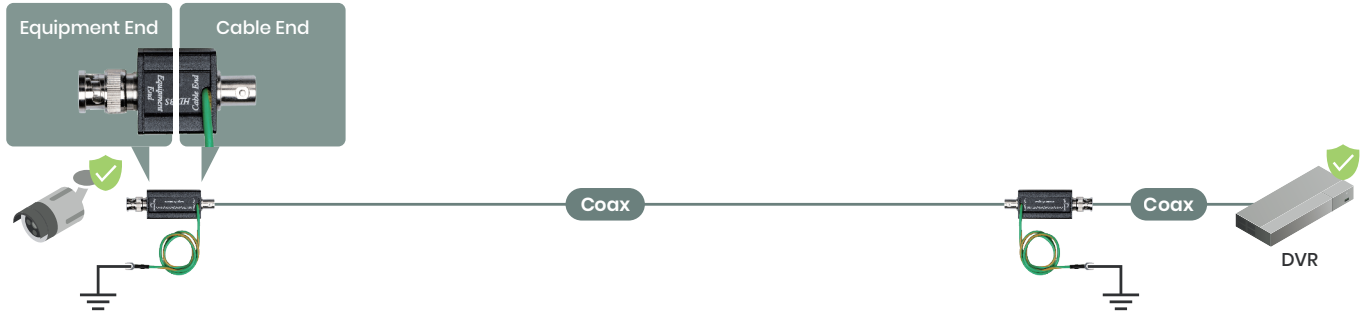
SP009 4K HD-TVI/AHD/HDCVI/CVBS Surge Protector

To provide surge protection for HD-TVI, AHD, HDCVI, CVBS devices.

- Connector: BNC male to BNC female
- Resolution: up to 4K
- Response time: < 1ns
- Max discharge current: 15kA
- Insertion loss: 0.8dB (42MHz)
- Breakdown voltage : 6V



SP009



Surge protector HD UTP 4K Terminal/Terminal

SP009T 4K UTP HD-TVI/AHD/HDCVI/CVBS Surge Protector

Identical to SP009, compatible with UTP transmission.



SP009T

Surge protector UTP Data Terminal/Terminal

SP004 4K UTP HD-TVI/AHD/HDCVI Data Surge Protector

To provide surge protection for data

- Connector: screw terminal to screw terminal
- Resolution: up to 4K
- Response time: < 1ns
- Max discharge voltage: 4kV
- Insertion loss: < 0.2dB
- Breakdown voltage: 6V



SP004

Surge protector Power Terminal/Terminal

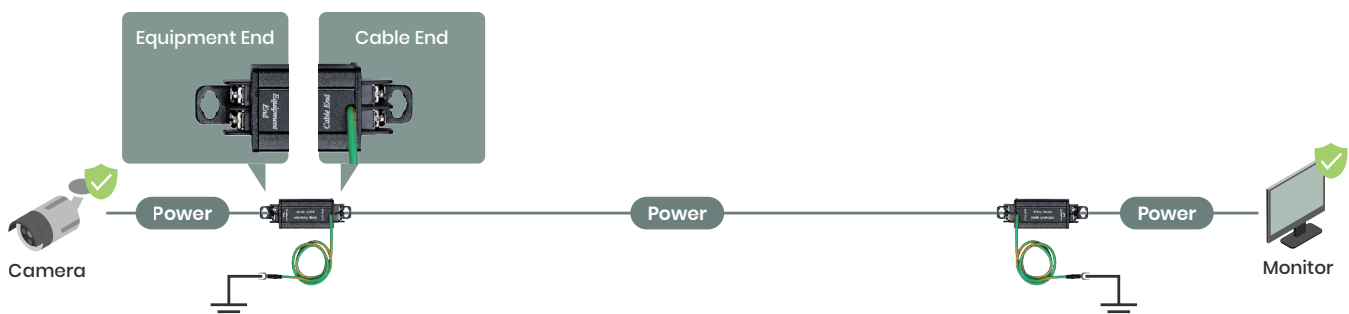
SP001P Power Surge Protector

To provide surge protection for AC/DC power

- Connector: screw terminal to screw terminal
- Response time: < 1ns
- Max discharge voltage: 4kV
- Insertion loss: < 0.2dB
- Breakdown voltage: AC 40V/DC 56V



SP001P



Surge protector

HD

4K

16 ports

BNC/BNC

SP016HD 4K HD-TVI/AHD/HDCVI /CVBS 16 Channel Surge Protector in 1U Rack



SP016HD

To provide 16 channels surge protection for HD-TVI, AHD, HDCVI, CVBS devices.

- Perfect for DVR
- Connector: 16 BNC female to 16 BNC female
- Resolution: up to 4K
- Response time: < 1ns Max discharge current: 15kA
- Insertion loss: < 0.2dB Breakdown voltage: 6V



IP over CAT5e/IP over Coaxial (EoC)/IP over Fiber Extender

Item No.	Cable Type	Transmission Protocol	Active/Passive	Data Rate/Max. Distance Comparison		
				1,000 Mbps	100 Mbps	10 Mbps
IP09	CAT5e	Long Reach Ethernet	Active	-	under 500m	500m~800m
SR01X	CAT5e	Standard Ethernet	Active	-	120m	120m
IP09C	RG59 or GR6U	Long Reach EoC	Active	-	under 500m	500m~1,000m
IP01	RG59	EoC	Passive	-	under 100m	100m~200m
	RG6U	EoC	Passive	-	under 100m	100m~300m
IP01F	SC Single Fiber	Ethernet over Fiber	Active	20km	20 km	20 km

IP over CAT5e Extender/Repeater

Extender IP Active CAT5e 800m

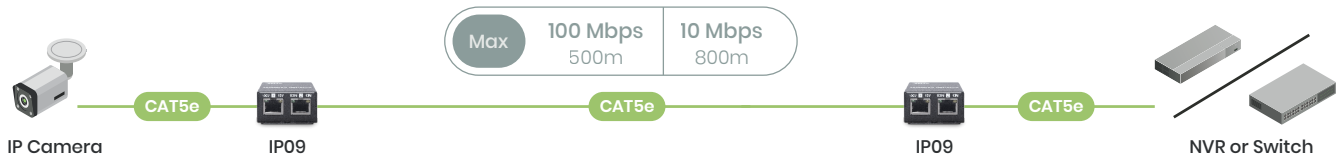
IP09 IP over CAT5e Active Extender 800m

IP09 is an Ethernet extender (or LAN extender) that can break the transmission limit of Ethernet (100m or 328 feet) to transmit the TCP/IP signal for up to 800m.

- Signal extension up to 800m over a cost-effective CAT5e cable.
- Max transmission distance: 800m



IP09



Repeater IP CAT5e 120m

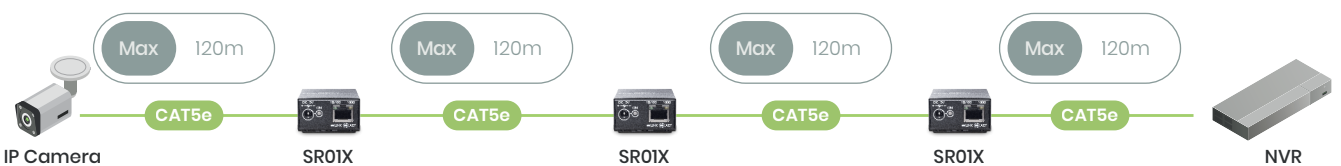
SR01X IP Repeater 120m

To extend IP signal over CAT5e cable up to 120m

- Using multiple repeater to get long transmission distance.
- Max transmission distance: 120m
- Max bandwidth: 10/100/1000 Mbps



SR01X



IP over Coaxial Extender

Extender IP Active Coax 1,000m

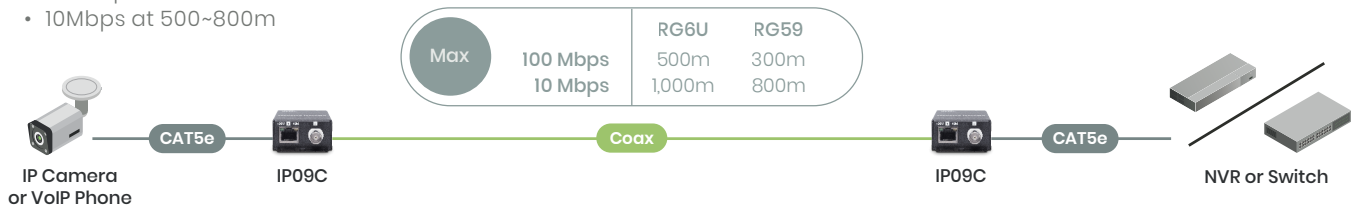
IP09C IP over Coaxial Extender 1000m

IP09C is an Ethernet extender (or LAN extender) that can use a single coaxial cable to send TCP/IP signals to a remote device.

- Signal extension up to 1000m over an RG6U coaxial cable.
- Max transmission distance: 1000m
- Max bandwidth:
 - 100Mbps under 500m
 - 10Mbps at 500-800m



IP09C



Extender IP Passive Coax 300m

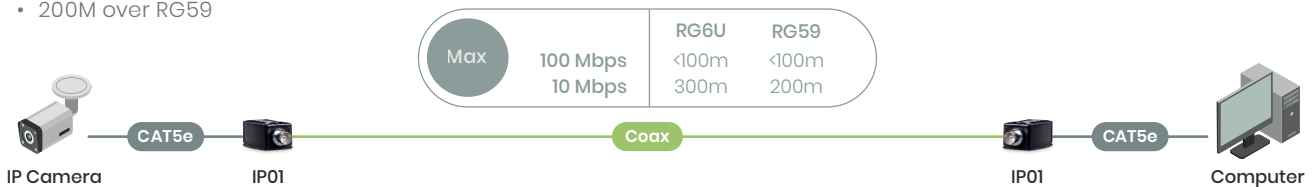
IP01 IP over Coaxial Passive Extender 300m

To send IP camera signal over existing coaxial cable.

- No power required
- Max Bandwidth:
 - 10/100Mbps under 100M
 - 10Mbps at 100-300M
- Max transmission distance:
 - 300M over RG6U
 - 200M over RG59



IP01



IP over Fiber Extender

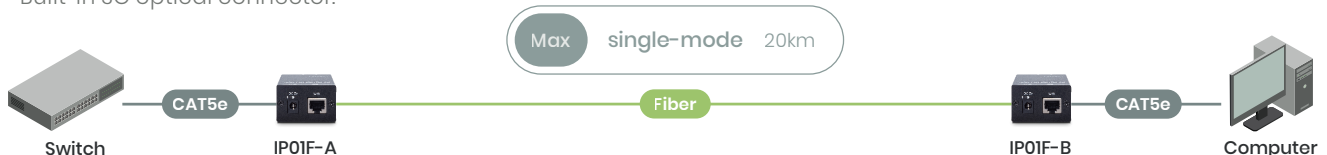
Extender IP Active Fiber 20km

IP01F IP over Fiber Extender 20km

- Cable: Single mode fiber cable (OS 1 is recommended)
- Max bandwidth: 10/100/1000Mbps
- Transmission distance up to 20km via single-mode single-core fiber cable.
- Built-in SC optical connector.



IP01F



PoE over CAT5e/PoE over Coaxial (PoC) Extender

Item No.	Cable Type	Transmission Protocol	PoE Mode	Active/Passive	Max. Distance		
					100 Mbps	10 Mbps	Max. Distance PoE
IP09P	CAT5e	Long Reach PoE	IEEE 802.3 bt	Active	under 500m	500m-800m	10W (800m, 56V adapter)
IP09PHK	CAT5e	Long Reach PoE	IEEE 802.3 bt	Active	under 500m	-	18W (500m, 56V adapter)
IP04R	CAT5e	Standard PoE	IEEE 802.3 bt PoE passthrough	Active	120m	120m	48.86W (120m)
IP09CP	RG59	Long Reach PoC	IEEE 802.3 bt	Active	under 500m	500m-1,000m	7W (1000m, 56V adapter)
	RG6U	Long Reach PoC	IEEE 802.3 bt	Active	under 500m	500m-1,000m	10W (1000m, 56V adapter)
IP09CPHK	RG59	Long Reach PoC	IEEE 802.3 bt	Active	under 500m	-	12W (500m, 56V adapter)
	RG6U	Long Reach PoC	IEEE 802.3 bt	Active	under 500m	-	25W (500m, 56V adapter)
IP01P	RG59	PoC	IEEE 802.3 at	Active	under 100m	100m-200m	18W (200m)
	RG6U	PoC	IEEE 802.3 at	Passive	under 100m	100m-300m	15W (300m)

PoE over CAT5e Extender

Extender PoE IEEE 802.3 bt CAT5e 800m

IP09P PoE over CAT5e Extender 800m

To extend PoE data/power up to 800m. Provides up to 60W power for remote PoE devices.

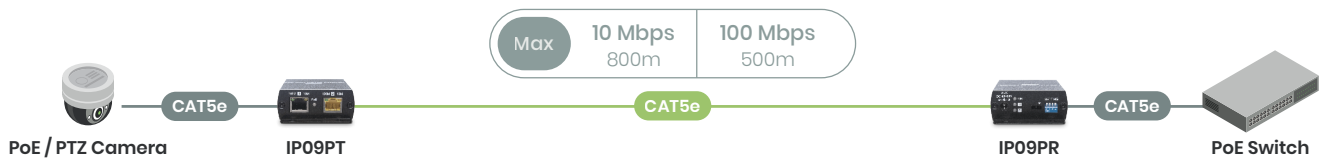
- Cable: CAT5e
- Max transmission Distance: 800m
- Max PoE Power:
 - 10W at 800m CAT5e cable and 56V adapter
 - PoE compliance: IEEE802.3af, IEEE802.3at, IEEE802.3bt



IP09PT



IP09PR



Repeater PoE IEEE 802.3 bt CAT5e 120m

IP04R PoE Active Repeater 120m

To extend PoE data/power up to 120m.

- Using multiple repeater to get long transmission distance (Cable: CAT5e)
- Provides power up to 30W
- Max transmission distance: 120M
- Max transmission distance: up to 1000Mbps



IP04R



IP/PoE Transmission

Extender PoE IEEE 802.3 bt CAT5e 4 Port 500m

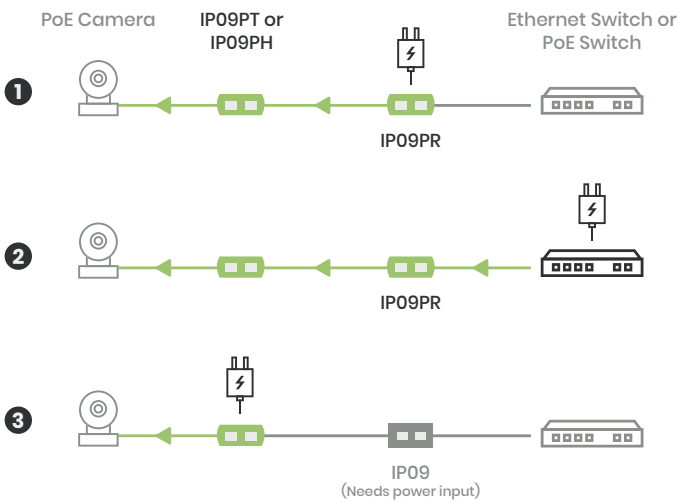
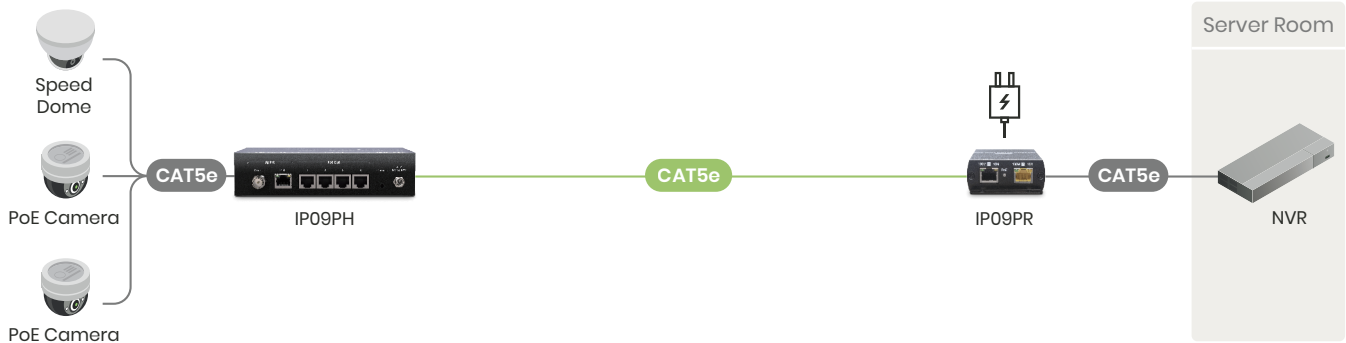
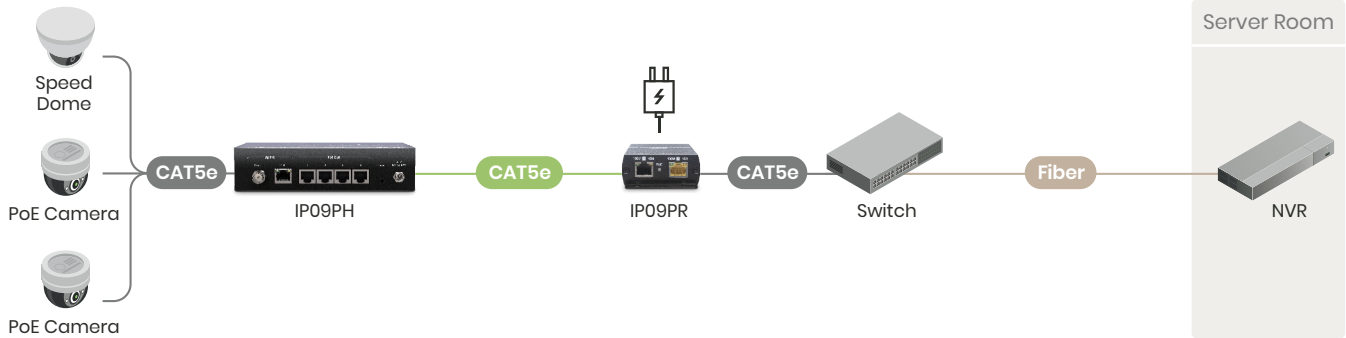
IP09PHK PoE over CAT5e 4 Port Extender 500m

Using one CAT5e cable to transmit PoE data/power for 4 PoE cameras.

- Provides up to 60W power for 4 remote PoE devices
- Cable: CAT5e
- Max transmission Distance: 500m
- Max bandwidth : 100Mbps under 500m
- Max PoE Power : 18W at 500m CAT5e cable and 56V adapter
- PoE compliance: IEEE802.3af, IEEE802.3at, IEEE8023.bt
- Support different PoE power mode



IP09PHK
(IP09PH + IP09PR)



PoE over Coaxial Cable Extender

Extender PoE IEEE 802.3 bt Active Coax 800m

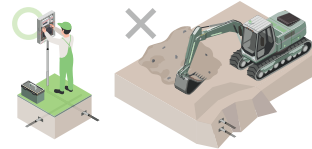
IP09CP IP over CAT5e Active Extender 800m

IP09CP is a PoE extender that can use a single coaxial cable to send PoE data/power for a remote PoE device.

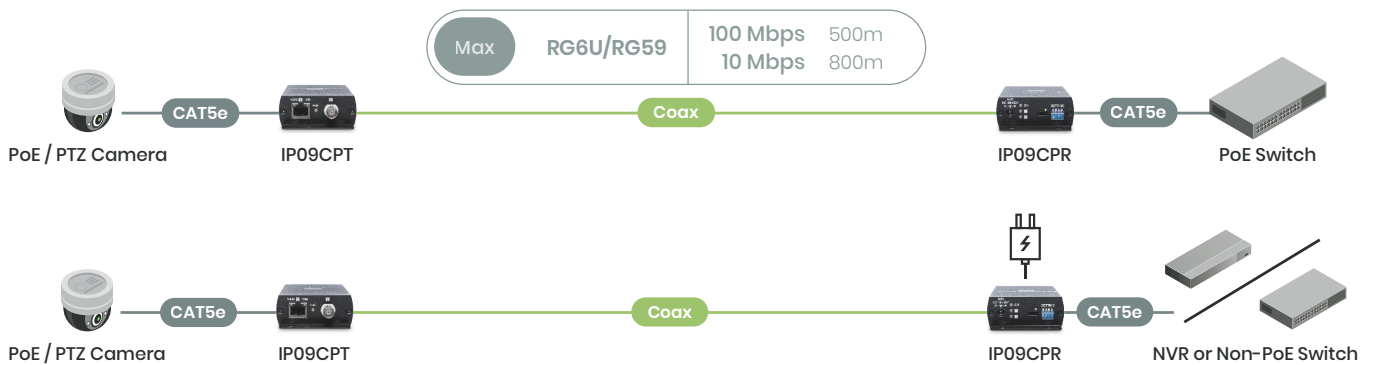
- Package includes: IP009CPT x 1, IP09CPR x1
- Extends PoE data/power over a coaxial cable.
- Provides up to 60W power for remote PoE devices.
- Power source from either a PoE switch or an external power adapter.
- Max PoE Power: 10W at 1000m RG6U cable and 56V adapter
- PoE compliance: IEEE802.3af, IEEE802.3at, IEEE802.3bt



IP09CP



Saving time for changing the existed coaxial cable.



Extender PoE IEEE 802.3 bt Coax 4 Port 500m

IP09CPHK PoE over Coaxial 4 Port Extender 500m

Using one Coaxial cable to transmit PoE data/power for 4 PoE cameras, identical to IP09CPHK but using coaxial cable.

- Provides up to 60W power for 4 remote PoE devices
- Cable: RG59/RG6U
- Max bandwidth: 100Mbps under 500m
- Max PoE Power: 17W at 500m RG59 cable and 56V adapter
- PoE compliance: IEEE802.3af, IEEE802.3at, IEEE802.3bt



IP09CPHK



Extender PoE IEEE 802.3 at Coax 300m

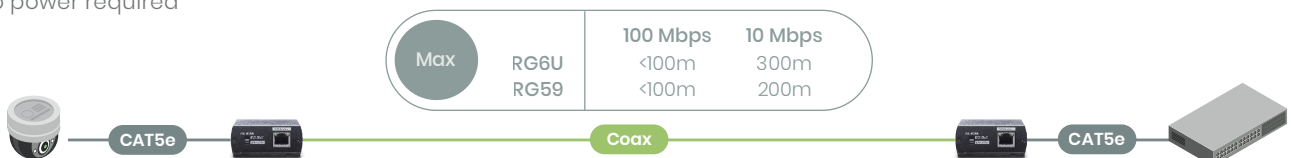
IP01P PoE over Coaxial Passive Extender 300m

To extend PoE data/power over coaxial cable.

- Power from a PoE switch or a PoE injector
- No power required



IP01P



PoE Injector/Splitter/Switch

PoE Splitter

15W

IP05SE 15W PoE Splitter

IP05SE is a PoE splitter designed to separate PoE data/power into IP signal and power for a remote non-PoE device.

- Max bandwidth: 100 Mbps
- PoE compliance: IEEE802.3af
- Power output: 5 VDC(2A)/ 9V DC(1.1A)/ 12 VDC(0.85A)



IP05SE

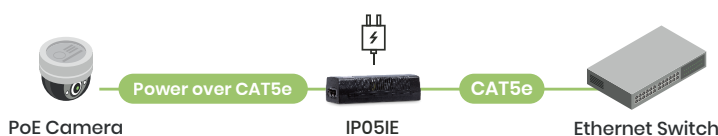
PoE Injector

15W

IP05IE 15W PoE Injector

IP05IE is a PoE injector designed to combine IP TCP/IP signal and power into PoE signal for remote PoE device where a power outlet is not available.

- Max bandwidth : 100 Mbps
- PoE compliance: IEEE802.3af
- Power output: DC 52V (Max)



IP05IE

PoE Switch

8 Port

100 Mbps

30W

IP08H 30W 8 Port PoE Switch

8Port Fast Ethernet Switch with 8 ports of PoE 802.3at supported, total 120W power output.

- Max bandwidth : 100Mbps
- PoE compliance: IEEE802.3af, IEEE802.3at
- Max power output: 30W(per port), 120W(total)



IP08H

PoE Switch

16 Port

100 Mbps

30W

IP16H 30W 16 Port PoE Switch

16Port Fast Ethernet Switch with 16 ports of PoE 802.3at supported, total 250W power output.

- Max bandwidth : 100Mbps
- PoE compliance: IEEE802.3af, IEEE802.3at
- Max power output: 30W(per port), 250W(total)



IP16H

PoE Switch

24 Port

100 Mbps

30W

IP24H 30W 24 Port PoE Switch

24Port Fast Ethernet Switch with 2 Combo Gigabit RJ45 SFP open slots, total 380W power output.

- Max bandwidth : 100Mbps(24-port), 1000Mbps(2 combo port)
- PoE compliance: IEEE802.3af, IEEE802.3at
- Max power output: 30W(per port), 380W(total)



IP24H

IP/PoE/PoC Surge Protector

Item No.	Support Mode	Bandwidth	PoE Mode	Feature
SP006	Ethernet	1,000 Mbps	-	-
SP006H	Ethernet	10 Gbps	-	-
SP006P	PoE	100 Mbps	IEEE 802.3 at	-
SP006PH	PoE	1,000 Mbps	IEEE 802.3 at	-
SP006PH-10G	PoE	10 Gbps	IEEE 802.3 bt	20kA Protection
SP006PHO	PoE	1,000 Mbps	IEEE 802.3 bt	Waterproof
SP016P	PoE	1,000 Mbps	IEEE 802.3 at	16 Port
SP009P	PoC/HD CCTV	100 Mbps	IEEE 802.3 at	Protect PoC devices

IP Surge Protector

Surge Protector

IP

1,000 Mbps

SP006 IP 1000Mbps Surge Protector

To protect Ethernet equipment (four pairs protection) from high voltage surges from nearby lightning strikes.

- Perfect for IP camera, network, server
- Plug and play
- Max bandwidth: 1000Mbps
- Response time: < 1ns
- Max discharge voltage: 4kV
- Insertion loss: < 0.2dB



SP006



Surge Protector

IP

10 Gbps

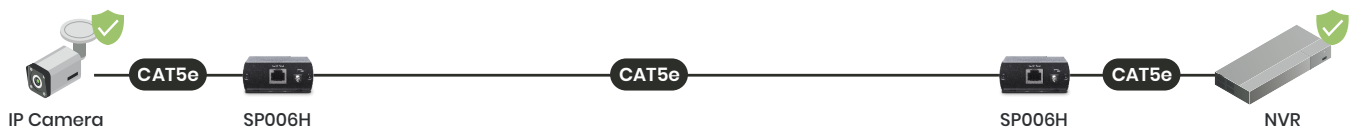
SP006H IP 10Gbps HDBaseT Surge Protector

Identical to SP006, but supports data rate up to 10Gbps.

- Perfect for HDBaseT extender and any Ethernet equipment
- Plug and play
- Built-in ESD, EFT (impulse noise) protection
- Max bandwidth : 10Gbps
- Response time: < 1ns
- Max discharge voltage: 6kV
- Insertion loss: < 0.2dB



SP006H



PoE Surge Protector

Surge Protector

PoE

IEEE 802.3 at

100 Mbps

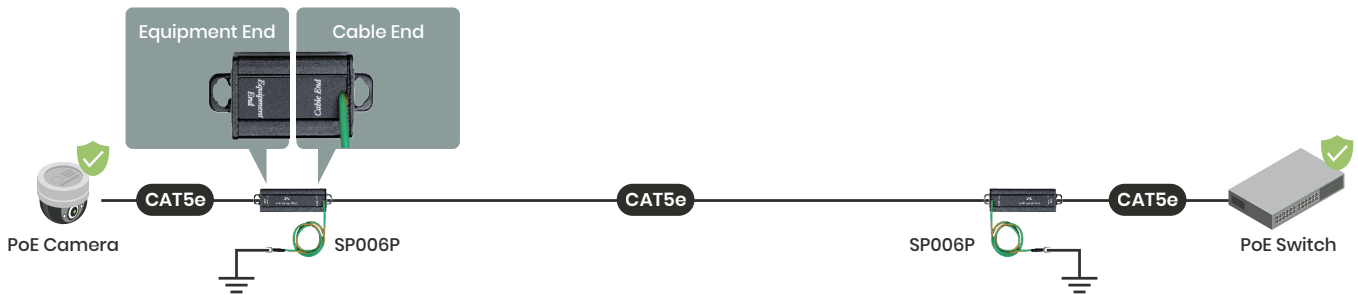
SP006P PoE 100Mbps Surge Protector

To protect 100Mbps PoE equipment from high voltage surges from nearby lightning strikes.

- Perfect for PoE camera
- Plug and play
- Support Mid-Span PoE and End-Span
- Max bandwidth: 100Mbps
- PoE compliance: IEEE802.3af, IEEE802.3at
- Response time: < 1ns
- Max discharge voltage: 4kV
- Insertion loss: < 0.2dB



SP006P



Surge Protector

PoE

IEEE 802.3 at

1,000 Mbps

SP006PH PoE 1000Mbps Surge Protector

To protect 1G PoE equipment from high voltage surges from nearby lightning strikes.

- Perfect for high bandwidth PoE camera, PoE switch
- Plug and play
- Support Mid-Span PoE and End-Span
- Max bandwidth: 1000Mbps
- PoE compliance: IEEE802.3af, IEEE802.3at
- Response time: < 1ns
- Max discharge voltage: 4kV
- Insertion loss: < 0.2dB



SP006PH

Surge Protector

PoE

IEEE 802.3 bt

10 Gbps

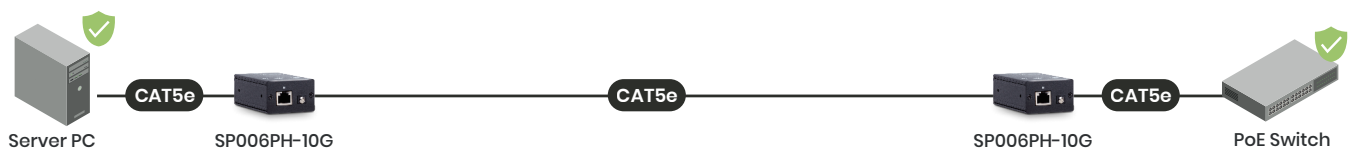
SP006PH-10G PoE 10Gbps Surge Protector

SP006PH-10G is an in-line surge protector designed for preventing damage to PoE (Power over Ethernet) devices from high voltage surges.

- Perfect for high bandwidth PoE switch, server
- Surge current up to 20KA, for better protection
- Perfect for high bandwidth PoE camera, PoE switch
- Max bandwidth: 10Gbps
- PoE compliance: IEEE 802.3bt PoE++
- Response time: < 1ns
- Surge Discharge Current: 20KA (8/20us)
- Insertion loss: > 10000Ω.



SP006PH-10G



Surge Protector

PoE

IEEE 802.3 bt

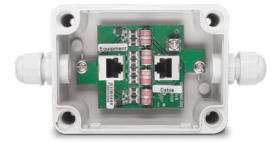
1,000 Mbps

Waterproof

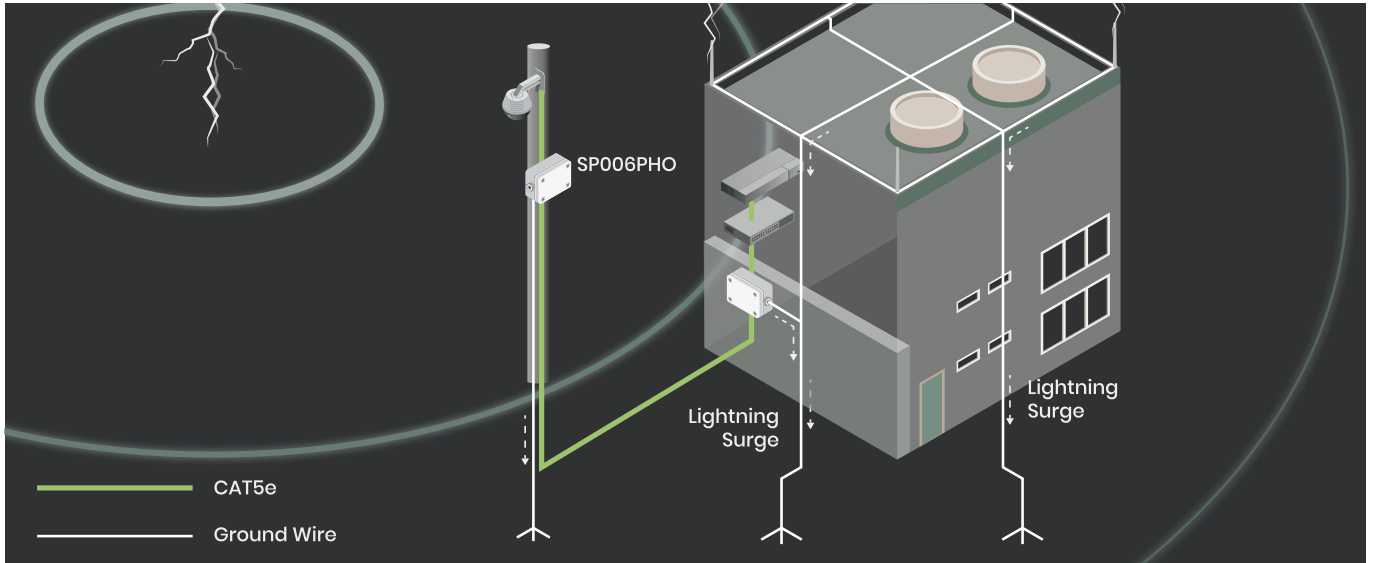
SP006PHO PoE 1000Mbps Outdoor Surge Protector

To protect outdoor 1G PoE equipment from high voltage surges from nearby lightning strikes.

- Support high power 90W pass-through
- Max bandwidth: 1000Mbps
- PoE compliance: IEEE802.3af, IEEE802.3at, IEEE802.3bt
- Response time: < 0.7ns
- Max discharge voltage: 20kV
- Max discharge current: 10KA
- Insertion loss: < 0.2dB
- Supports IP66 Waterproof rating



SP006PHO



Surge Protector

PoE

IEEE 802.3 at

1,000 Mbps

16 Ports

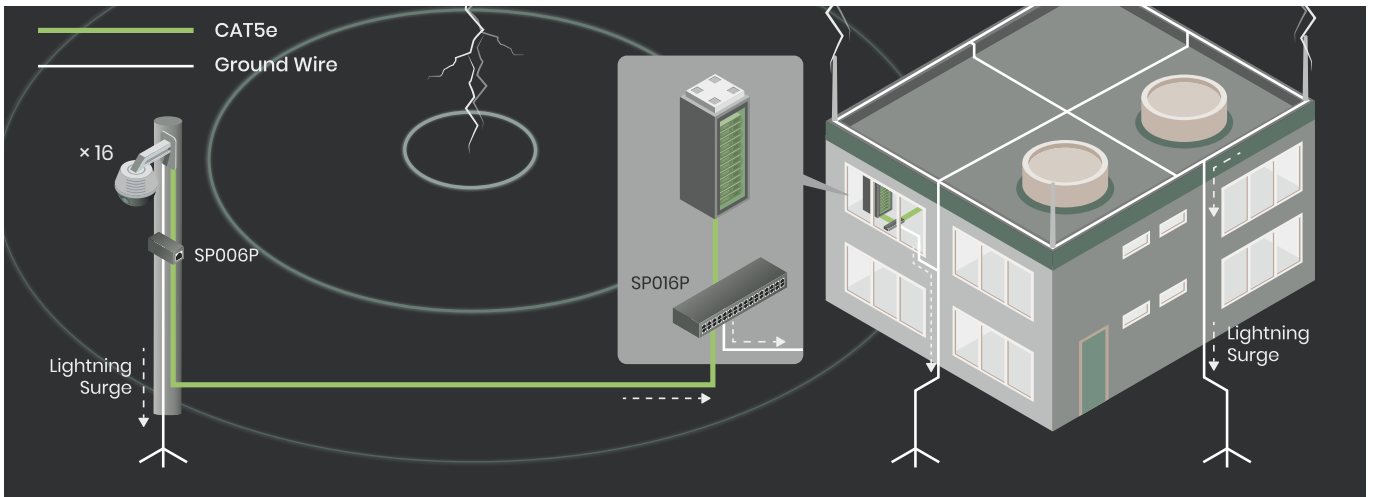
SP016P PoE 1000Mbps 16 Channel Surge Protector in 1U Rack



SP016P

To protect up to 16 devices of 1G PoE equipment from high voltage surges from nearby lightning strikes.

- Perfect for server room that has ethernet cable link from outdoor
- Supports up to 15W for power input
- Supports Mid-Span PoE and End Span PoE
- Max bandwidth: 10/100/1000Mbps
- PoE compliance: IEEE802.3af, IEEE802.3at
- Response time: < 1ns
- Max discharge voltage: 4kV
- Insertion loss: < 0.2dB



PoC Surge Protector

Surge Protector

PoC

HD

SP009P 4K UTP HD-TVI/AHD/HDCVI/CVBS Surge Protector (for PoC or HD Cameras)

To protect HD or PoC equipment from high voltage surges from nearby lightning strikes.

- Supports HD-TVI, AHD, HDCVI, CVBS, and PoC devices
- Resolution up to 8MP (4K)
- Supports 20kA (8/20 us) lightning protection, up to 25kA (8/20us) per strike
- Supports PoC (Power over Coaxial)
- Network bandwidth up to 100Mbps at 450m
- Could work with IP09CP
- Compliant with IEC 61000-4-5



SP009P

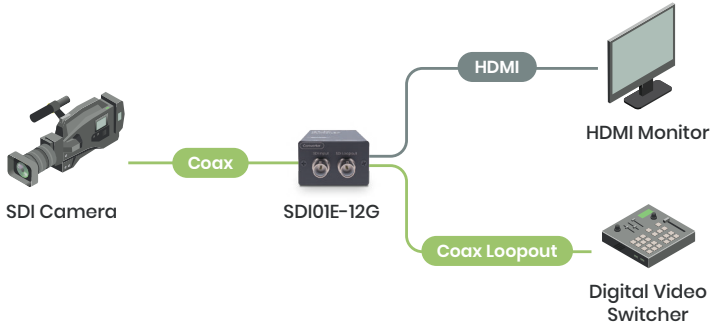
12G/6G/3G/HD SDI to HDMI Converter

Converter SDI to HDMI 12G-SDI 4K 60Hz

SDI01E-12G 12G-SDI to HDMI Converter with Loop Out

To convert 12G-SDI to 4K HDMI monitor.

- SDI Loopout
- Audio Extraction
- 2G-SDI input compatible with 6G/3G/HD (3G-level B not supported)



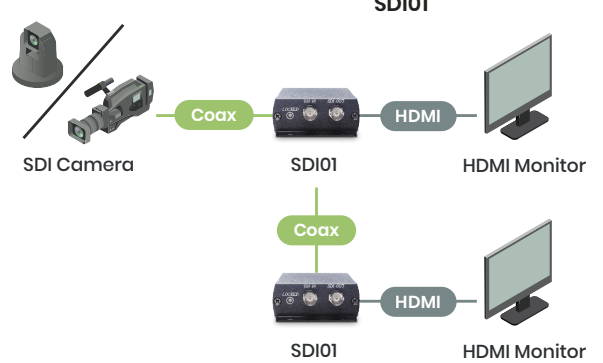
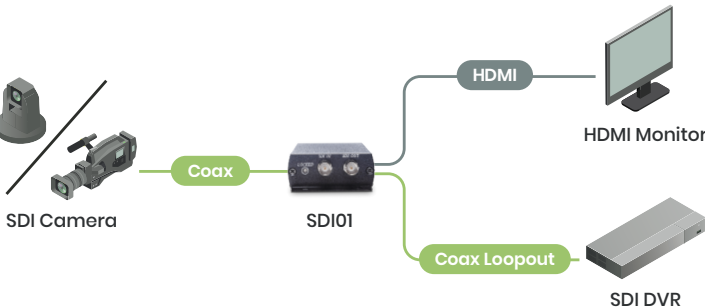
SDI01E-12G

Converter SDI to HDMI 3G-SDI 1080p

SDI01 3G/HD-SDI to HDMI Converter with Loop Out

To convert 3G/HD/SD-SDI signal to HDMI.

- Support HDMI 7.1 Channel audio
- Built-in equalizer to increase the working distance and signal reliability
- Built-in SDI loop-out port for an additional SDI display or next SDI01
- Supported SDI format: 3G-SDI (SMPTE 424M), HD-SDI (SMPTE 292M), SD-SDI (SMPTE 259M)
- Max. resolution: up to 3G-SDI, 1080p@60Hz



SDI01

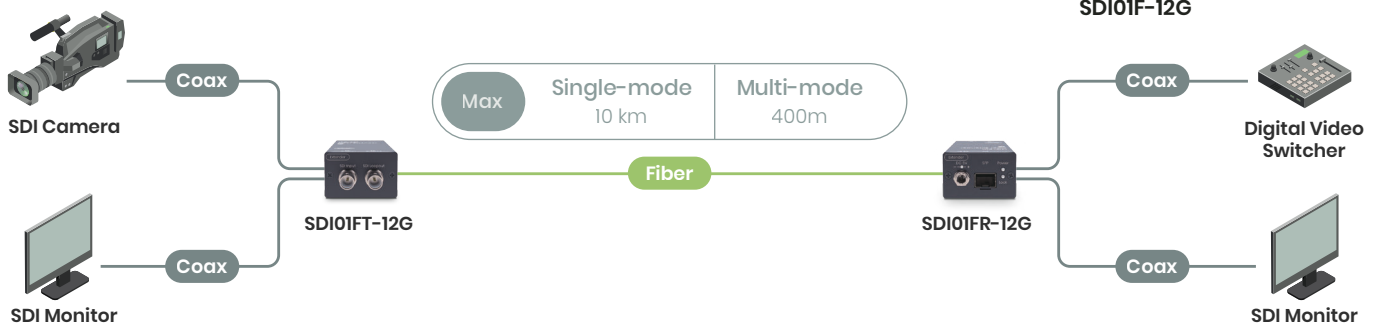
12G/6G/3G/HD SDI Extender

Extender SDI Fiber Loop out

SDI01F-12G 12G/6G/3G/HD SDI Extender

To extend 12G-SDI video over fiber cable.

- 12G-SDI input compatible with 6G/3G/HD/SD



SDI01F-12G

HDMI to 12G/6G/3G/HD/SD-SDI Converter

Converter

HDMI to SDI

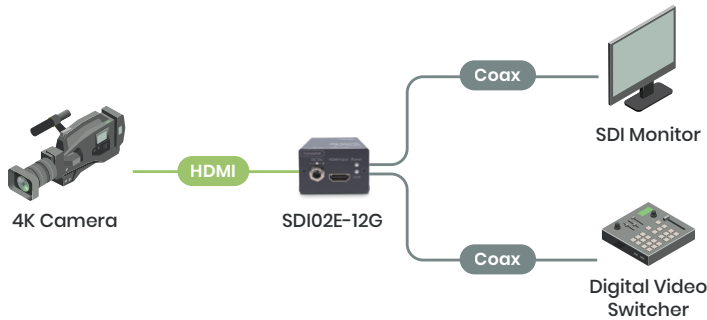
12G-SDI

4K 60Hz

SDI02E-12G HDMI to 12G-SDI Converter with Dual Output

To convert 4K HDMI to 12G-SDI. monitor

- Dual SDI output
- 12G-SDI output compatible with 6G/3G/HD (3G-level B not supported)



SDI02E-12G

Converter

HDMI to SDI

3G-SDI

1080p

SDI02 HDMI to 3G/HD-SDI Converter

To convert HDMI signal to 3G/HD/SD-SDI. Monitor.

- Support audio LPCM 7.1 Channel
- SDI format: 3G-SDI (SMPTE 424M), HD-SDI (SMTPE292M), SD-SDI (SMPTE 259M)
- Max. resolution: up to 3G-SDI, 1080p@60Hz



SDI02

SDI Surge Protector

Surge Protector

3G-SDI

SP007 3G/HD-SDI Surge Protector

To provide protection for SDI relative devices, such as SDI cameras, SDI monitor

- SDI format: 3G-SDI (SMPTE 424M), HD-SDI (SMTPE292M), SD-SDI (SMPTE 259M)
- Supports 3G-SDI, and HD-SDI video formats
- Supports video bandwidth at 270M, 1.5G, 2.97G
- Connector: BNC male to BNC female
- SDI transmission rate: 270M ~ 2.97G
- Insertion loss: 1.1dB
- Response time: < 1ns
- Breakdown voltage(power): DC24V
- Max discharge voltage: 8KV
- Max discharge current: 10K



SP007

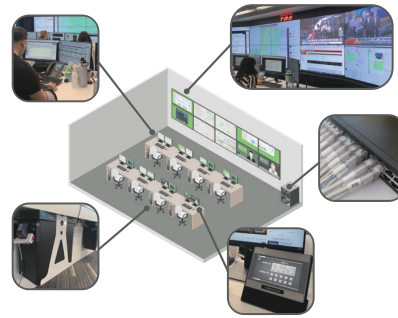
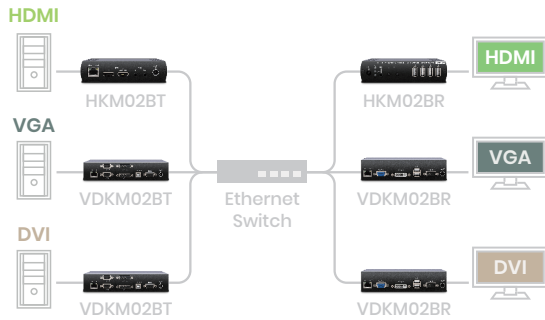


HDMI/DVI/VGA KVM & USB, RS232, IR, Audio Matrix Switch over IP with Video Wall

Item No.	Video Interface	Resolution	Type	PoE	USB	RS232	IR	Analog Audio
HKM02BPT-4K6G	HDMI	4K@60	Transmitter	Yes	Yes	Yes	Yes	Bi Directional
HKM02BT-4K6G	HDMI	4K@60		-				
HKM02BPT-4K	HDMI	4K@30		Yes				
HKM02BT-4K	HDMI	4K@30		-				
HKM02BT	HDMI	1080p		-				
VDKM02BT	VGA/DVI	1920 x 1200		-				
HKM02BPR-4K6G	HDMI	4K@60	Receiver	Yes	Yes	Yes	Bi Directional	
HKM02BR-4K6G	HDMI	4K@60		-				
HKM02BPR-4K	HDMI	4K@30		Yes				
HKM02BR-4K	HDMI	4K@30		-				
HKM02BR	HDMI	1080p		-				
VDKM02BR	VGA/DVI	1920 x 1200		-				

Highly Flexible and Integratable, 4K over IP

The AVoIP system can be built by different models, including HDMI, VGA, and DVI models, and they can mix together to have multiple signals in one A/V system. With the mix, you can have 4K HDMI videos to be displayed on DVI/ VGA monitors or 1080p HDMI videos to be displayed on 4K HDMI monitors...etc.



Up to 8 x 16 TV Wall

With an 8x16 TV wall, the AVoIP system is suitable for business commercial use and data analysis centers to set the screen mode based on their needs.



Audio Embedding and Extraction

With the 3.5mm audio phone jack at the transmitter and the receiver, The system can also support the audio embedding function that allows you to extract audio from your HDMI signal to connect to an external audio output device. You can also embed external audio (microphone audio) into your A/V output device like an HDMI monitor.

Supporting CAT5e & Fiber Optic Cable Transmission

SC&T's over IP series (4K version and above) support both CAT5e and fiber optic cable transmission for 150M and 60KM, respectively. The long extension distance allows you to apply the system to larger signal projects.

Multi-functional Transmission

Multiple standard/customized ways of control & Custom Scene Setup

You can set up scenes and easily switch between the TV wall and matrix with different devices. SC&T's HDMI over IP system supports PC software, mobile APP, IR, RS232, keypads, consoles, and other remote controllers. This character allows integrators to design a better control platform for end-user.



Support RS232 for Environmental Control Software

An AVoIP case study, see how our client integrates an over IP system into an Environmental Control system with a user-friendly touch panel, to achieve a smooth user experience.

Highly Compatible

SC&T's AVoIP system supports RS232 command, which enables integrators to incorporate the control system into their customized Environmental Control Software.

HDMI/DVI/VGA KVM Matrix over IP Transmission

HDMI

4K 60Hz

- HKM02BPT-4K6G** 4K 60Hz HDMI KVM over IP Transmitter with PoE
- HKM02BPR-4K6G** 4K 60Hz HDMI KVM over IP Receiver with PoE
- HKM02BT-4K6G** 4K 60Hz HDMI KVM over IP Transmitter
- HKM02BR-4K6G** 4K 60Hz HDMI KVM over IP Receiver

- Transmitter built-in HDMI loop out
- Cable recommended:
 - UTP CAT5e AWG 24 bare copper wire or higher spec.
 - OS1 (single-mode)/ OM3(multi-mode) fiber
- Max. resolution: up to 4K 60Hz



HKM02BT-4K6G



HKM02BR-4K6G

HDMI

4K 30Hz

- HKM02BPT-4K** 4K HDMI KVM over IP Transmitter with PoE
- HKM02BPR-4K** 4K HDMI KVM over IP Receiver with PoE
- HKM02BT-4K** 4K HDMI KVM over IP Transmitter
- HKM02BR-4K** 4K HDMI KVM over IP Receiver

- Transmitter built-in HDMI loop out
- Cable recommended:
 - UTP CAT5e AWG 24 bare copper wire or higher spec.
 - OS1 (single-mode)/ OM3(multi-mode) fiber or higher
- Max. resolution: up to 4K 30Hz
- HKM02BT/R-4K identical to HKM02BPT/R-4K, but without the PoE function



HKM02BT-4K



HKM02BR-4K

HDMI

1080p

- HKM02BT** 1080p HDMI KVM over IP Transmitter
- HKM02BR** 1080p HDMI KVM over IP Receiver

Identical to HKM02BT/R-4K, but support up to 1080p, without fiber function



HKM02BT



HKM02BR

VGA

DVI

1920 x 1200

- VDKM02BT** VGA/DVI KVM over IP Transmitter
- VDKM02BR** VGA/DVI KVM over IP Receiver

- Transmitter built-in both DVI and VGA loop out
- Receiver support DVI & VGA output at the same time.
- Cable recommended:
 - UTP CAT5e AWG 24 bare copper wire or higher spec.
- Max. resolution: up to 1920x1200 60Hz



VDKM02BT



VDKM02BR

Rack Panel

- TPN002BT** Fit 2 pcs of HKM02BT-4K Transmitter Unit
- TPN003BT** Fit 3 pcs of HKM02BT Transmitter Unit
- TPN002I-190** Fit 2 pcs of VDKM02BT Transmitter Unit



TPN002BT



TPN003BT



TPN002I-190

HDMI/DVI/VGA KVM Matrix over IP Transmission

Power Supply

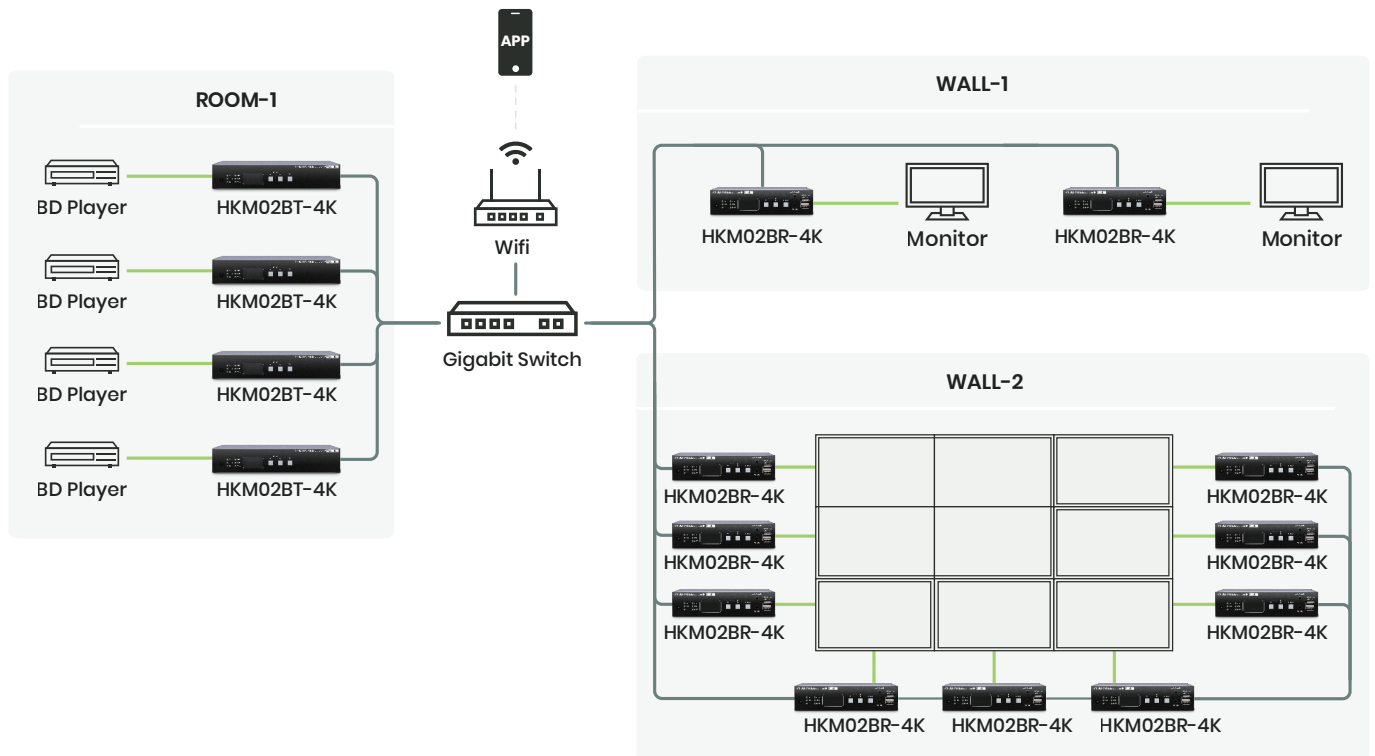
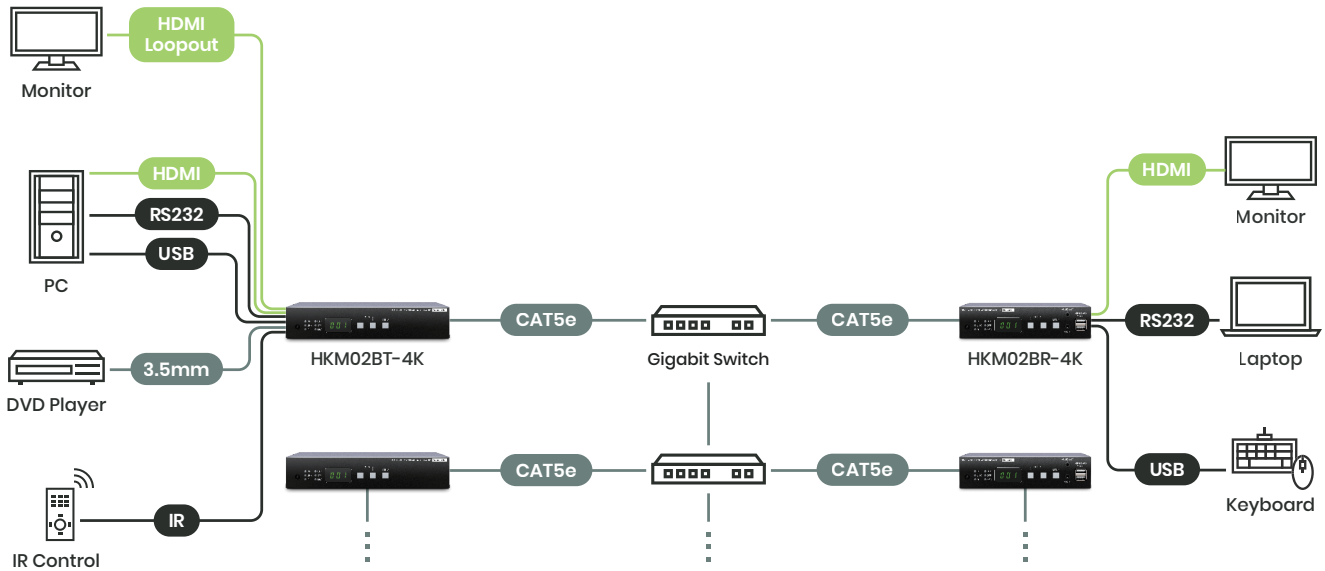
PR816-12R 8A 16 Port DC12V Regulated Power Supply in 1U Rack



PR816-12R

To send regulated DC12V power to multiple HKM02B-4K

Application



HDMI Extender

HDMI over CAT5e 1080p Extender

Extender HDMI 1080p Passive CAT5e 50m

HE01ERK HDMI CAT5e Passive Extender 50m

Special design to extend HDMI signal of DVR/NVR/PC over one CAT5e cable.

- No external power required
- Built-in micro USB for external power when HDMI source is not able to provide enough power to the receiver



HE01ERK
(HE01SET + HE01SER)



Extender HDMI 1080p CAT5e 50m

HE01SE HDMI CAT5e Extender with Passive Receiver 50m

To extend HDMI signal over one CAT5e cable.

- HDMI 1.3 compliant, 3D capable
- No power required at receiver side.(HE01SER)
- Transmitter unit Built-in EDID auto backup function



HE01SE
(HE01ST + HE01SER)



Extender HDMI 1080p CAT5e 50m

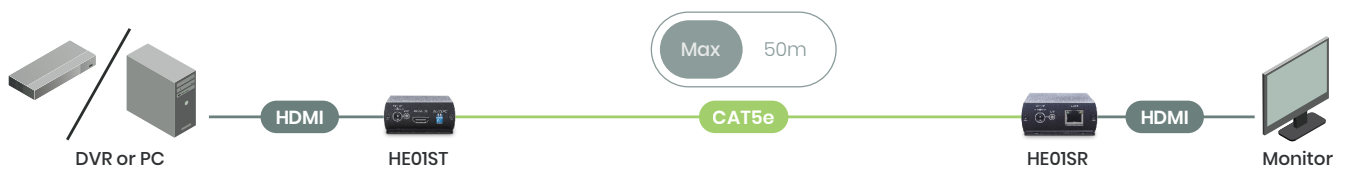
HE01S HDMI CAT5e Extender 50m

To extend HDMI signal over one CAT5e cable.

- HDMI 1.3, HDCP compliant, 3D capable
- Transmitter unit Built-in EDID auto backup function



HE01S
(HE01ST + HE01SR)



4K HDMI over HDBaseT Extender

Item No.	Video Interface	Max Distance			USB	RS232	IR	PoH	Ethernet
		4K 60Hz	4K 30Hz	1080p 60Hz					
HE02U-4K6G	HDMI	100m	100m	100m	Yes	Yes	Yes	-	Yes
VHE02EIP	HDMI/VGA	-	40m	70m	-	Yes	Yes	Yes	-
HE02EI	HDMI	-	40m	70m	-	-	Yes	-	-
HE02E	HDMI	-	100m	100m	-	-	-	-	-
HE02EX	HDMI	100m	100m	100m	-	Yes	Yes	-	-
HE02EIXP	HDMI	40m	40m	70m	-	Yes	Yes	Yes	-
HE02EXP	HDMI	70m	90m	90m	-	Yes	Yes	Yes	-

Extender HDMI 4K 60Hz HDBaseT KVM USB IR RS232 CATX 100m

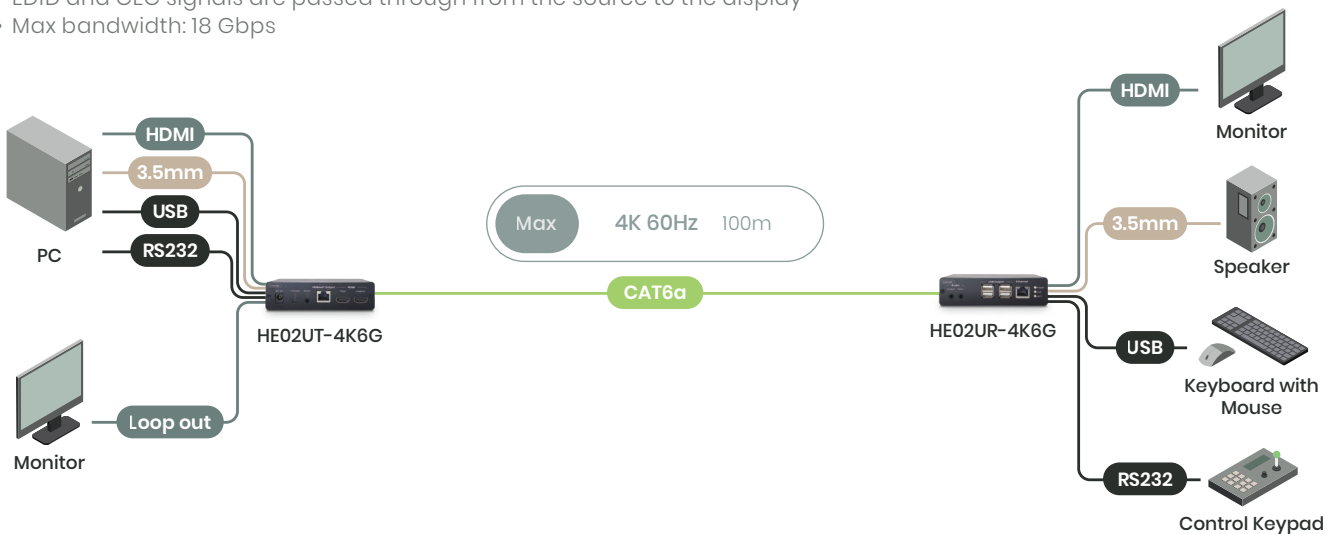
HE02U-4K6G 4K 60Hz HDMI KVM & USB, Audio, RS232, IR CAT6 Extender 100m



HE02U-4K6G

To send 4K 60Hz HDMI KVM signal over CAT6 cable.

- Max. resolution: up to 4K 60Hz
- HDCP compatible
- Built-in 4 ports USB 2.0 at receiver
- Supports bi-directional RS232 transmission
- Supports 10/100/1000Mbps Ethernet for network devices
- Supports HDMI audio
- The receiver (HE02UR-4K6G) could work with DisplayPort transmitter (DP02UT-4K6G)
- EDID and CEC signals are passed through from the source to the display
- Max bandwidth: 18 Gbps



HDMI Transmission

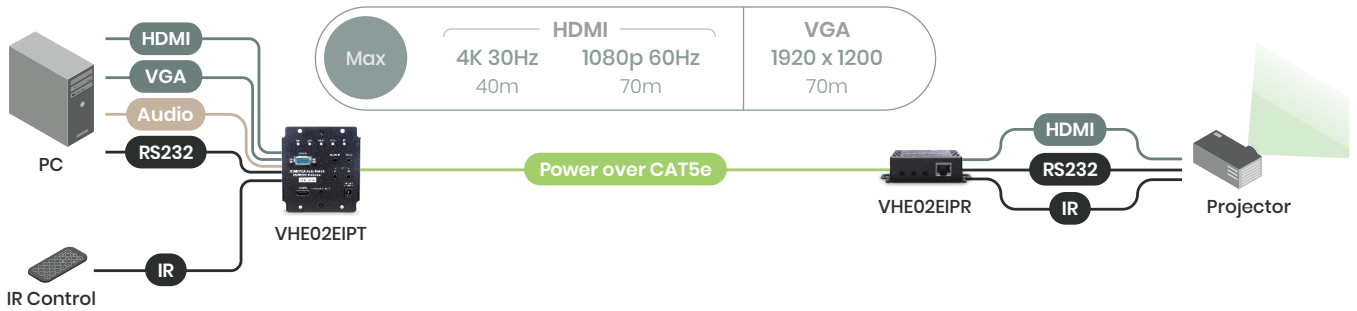
Extender HDMI/VGA 4K HDBaseT IR RS232 CATX Medium Range Power over HDBaseT 40m

VHE02EIP 4K HDMI/VGA Auto-Switching & IR/PoH/RS232 HDBaseT Extender 40m

- Uncompressed high definition video up to 4K 30Hz (HDMI).
- HDMI 1.4 and HDCP compliance.
- Support Bi-directional IR, RS232
- Support PoH (Power over HDBaseT), power can be provided from either transmitter or receiver side
- Transmitter support wall plate mounting brackets for installation on wall or conference table.
- EDID and CEC signals are passed through from the source to the display
- Max bandwidth: 10.2 Gbps.
- Cable recommended: UTP CAT5e AWG 24 bare copper wire or higher spec.
- Max. audio: up to LPCM7.1 @192kHz, Dolby TrueHD, DTS-HD MA



VHE02EIP



Extender HDMI 4K HDBaseT IR CATX 40m

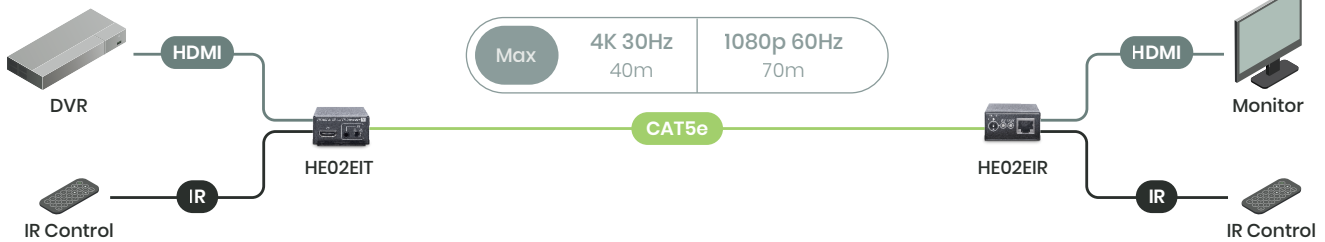
HE02EI 4K HDMI & IR CAT5e Extender 40m

To extend HDMI and IR signal over one CAT5e cable.

- Uncompressed high-definition video
- Support selectable Bi-directional IR extension
- HDMI 1.4 and HDCP compliance
- EDID and CEC signals are passed through from the source to the display
- Max bandwidth: 10.2 Gbps



HE02EI



Extender HDMI 4K 30Hz HDBaseT CATX 100m

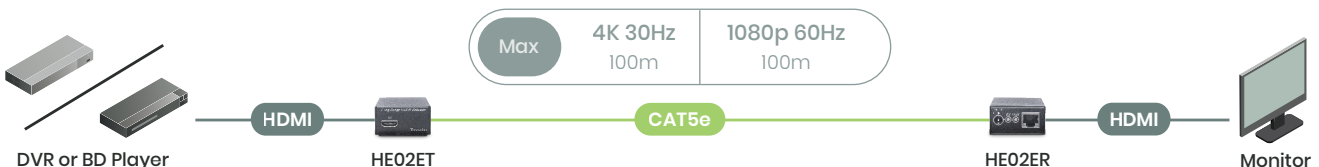
HE02E 4K HDMI CAT5e Extender 100m

To extend HDMI signal over one CAT5e cable.

- Uncompressed high definition video
- HDMI 1.4 and HDCP compliance
- EDID and CEC signals are passed through from the source to the display
- Cable recommended: UTP CAT5e AWG 24 bare copper wire or higher spec
- Max bandwidth: 10.2 Gbps
- Max. audio: up to LPCM7.1 @192kHz, Dolby TrueHD, DTS-HD MA



HE02E



Extender HDMI 4K 60Hz HDBaseT IR RS232 CATX 100m

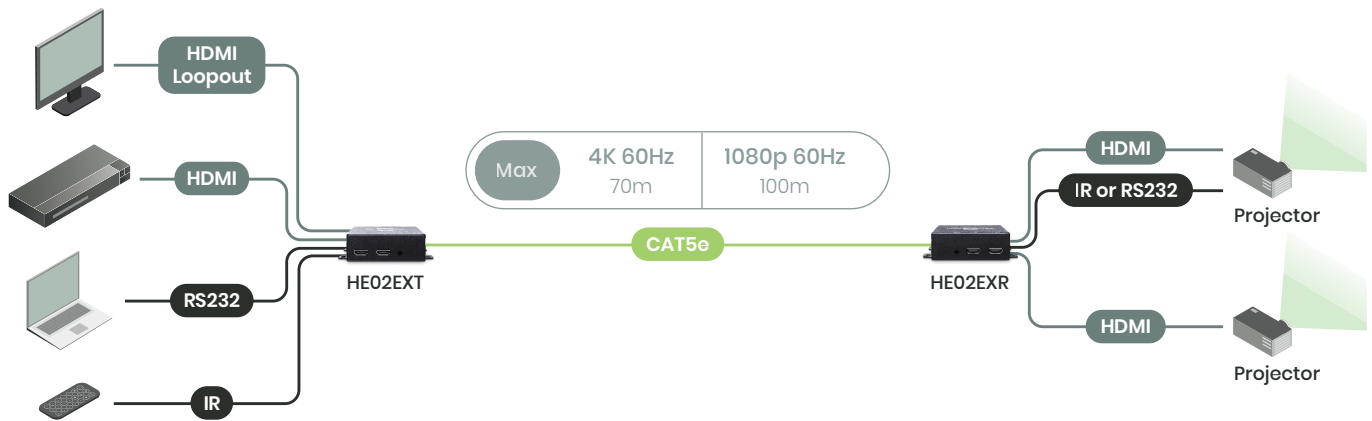
HE02EX 4K 60Hz HDMI & IR/RS232 CAT5e Extender 100m with Loop Out

To extend 4K 60Hz HDMI, RS232 and IR signal over one CAT5e cable.

- HDMI 2.0, HDCP 2.2, HDCP 1.4, DVI Compliant
- Transmitter built-in local loop out for local display
- Receiver built-in dual HDMI output for two displays
- Bi-directional IR, RS232 extension
- EDID and CEC signals are passed through from the source to the display
- Cable recommended: UTP CAT5e AWG 24 bare copper wire or higher spec
- Max bandwidth: 18Gbps (6Gbps per color)
- Max. audio: up to LPCM7.1 @192kHz, Dolby TrueHD, DTS-HD MA



HE02EX



Extender HDMI 4K 60Hz HDBaseT IR RS232 CATX Power over HDBaseT 40m

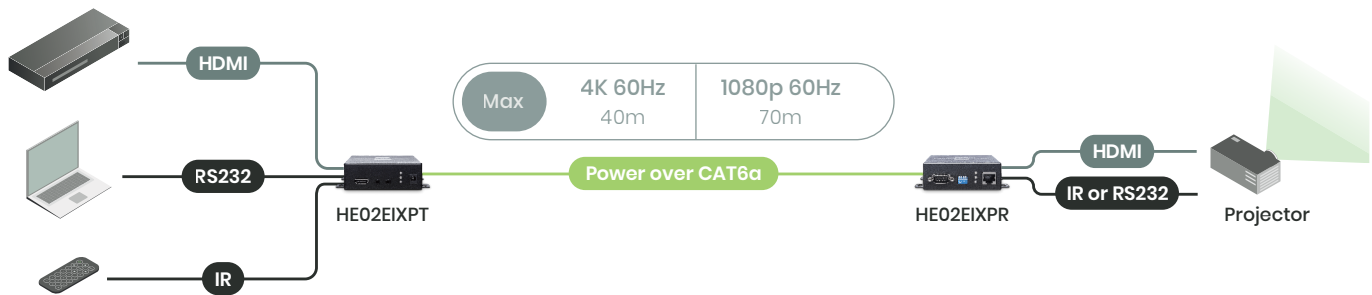
HE02EIXP 4K 60Hz HDMI & IR/RS232/PoH CAT5e Extender 40m

To extend HDMI signal over one CAT5e cable.

- Support PoH (Power over HDBaseT), power can be provided from either transmitter or receiver side
- HDMI 2.0, HDCP 2.2, HDCP 1.4, DVI Compliant
- Bi-directional IR, RS232 extension
- EDID and CEC signals are passed through from the source to the display
- Cable recommended: UTP CAT5e AWG 24 bare copper wire or higher spec
- Max bandwidth: 18Gbps (6Gbps per color)
- Max. audio: up to LPCM7.1 @192kHz, Dolby TrueHD, DTS-HD MA



HE02EIXP

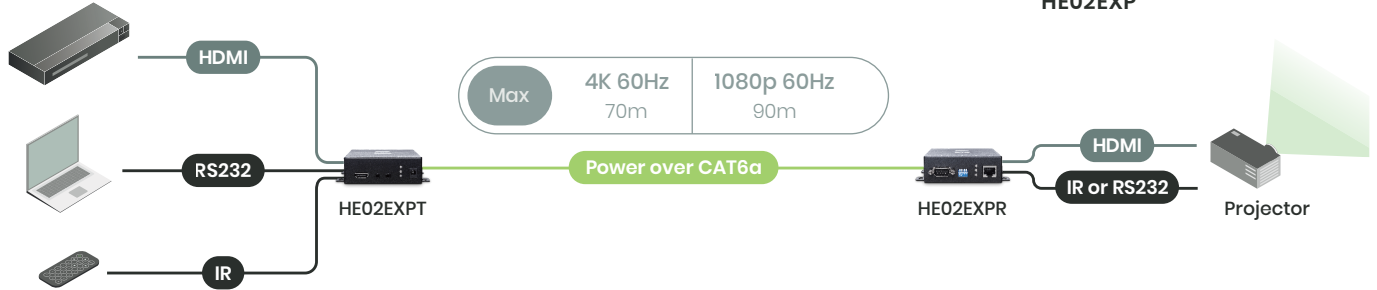


HDMI Transmission

Extender HDMI 4K 60Hz HDBaseT IR RS232 CATX Power over HDBaseT 70m

HE02EXP 4K 60Hz HDMI & IR/RS232/PoH CAT5e Extender 70m

Identical to above HE02EIXP, but the transmission distance is longer.



HE02EXP

HDBaseT Tools

Surge Protector HDBaseT CATX 10Gbps

SP006H HDBaseT 10Gbps CATX Surge Protector

To protect HDBaseT or Network equipment (four pairs protection) from high voltage surges from nearby lightning strikes.

- Perfect for HDBaseT extender and any network equipment
- Built-in ESD, EFT (impulse noise) protection
- Max. bandwidth: 10-1000Mbps
- Response time: < 1ns
- Max discharge voltage: 6kV
- Insertion loss: < 0.2dB



SP006H



HDMI over IP Extender

Extender HDMI 1080p IP Transmission CATX 120m Loop out

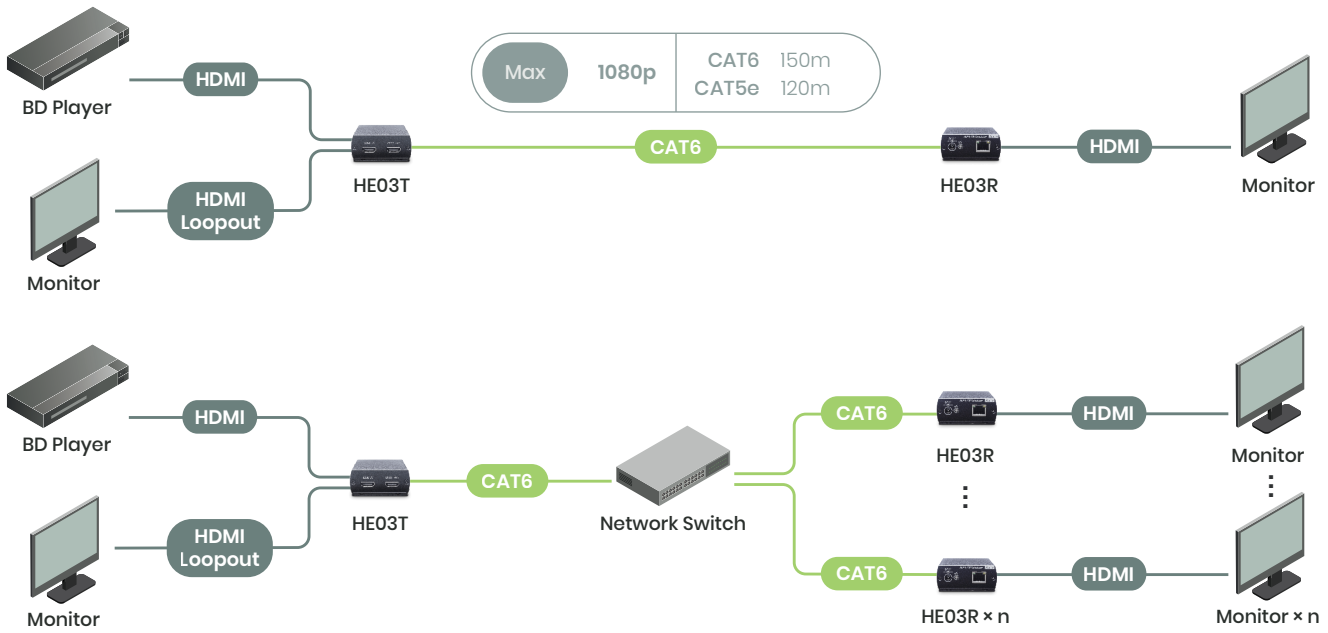
HE03 HDMI over IP Extender 120m

To extend HDMI signal over CAT5e cable.

- Economic HDMI over IP Extender
- Transmitter built-in HDMI local loop out
- HDMI 1.3b and HDCP compliant
- Optional model: SR01X IP repeater for longer distance application
- Workable with Ethernet Switch, turns into distributor
- Cable recommended: UTP CAT5e AWG 24 bare copper wire or higher spec



HE03



Extender HDMI 4K 30Hz IP Transmission CATX 120m

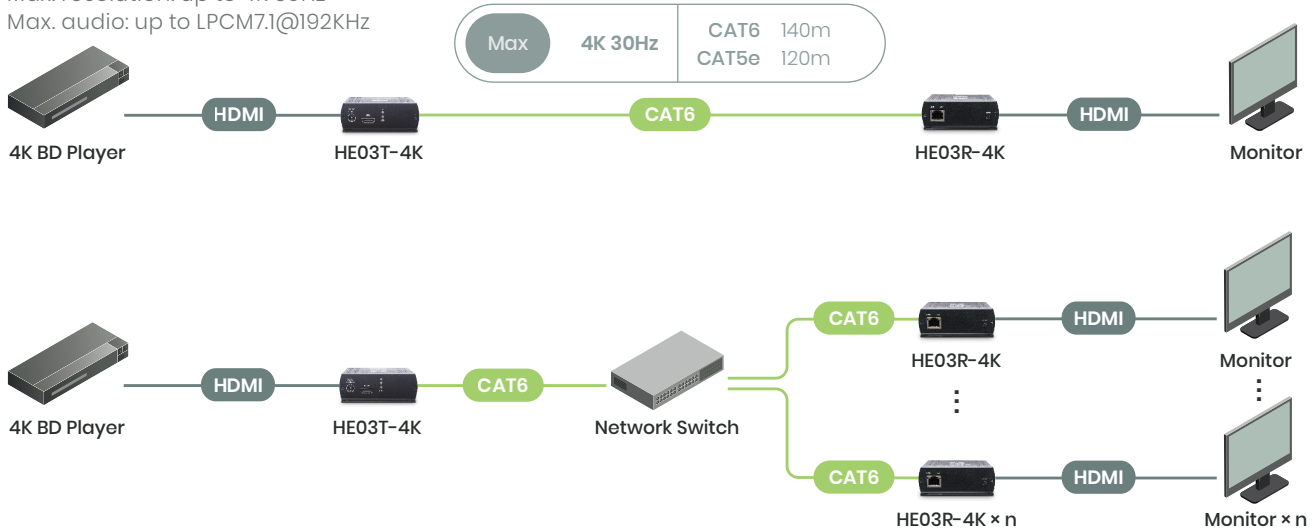
HE03-4K 4K HDMI over IP Extender 120m

To extend 4K HDMI signal over one CAT5e cable.

- HDCP 1.4 compliant
- Plug and play for easy operation
- Two receivers for option: HE03R-4K, HE03LR-4K
- Cable recommended: UTP CAT5e AWG 24 bare copper wire or higher spec
- Max. resolution: up to 4K 30Hz
- Max. audio: up to LPCM7.1@192KHz



HE03-4K

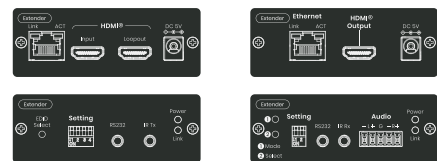


Extender HDMI 4K 60Hz IP Transmission CATX 100m

HE03-4K6G 4K 60Hz HDMI over IP Extender 100m

Identical to HE03-4K with 4K 60Hz resolution, and local loop out at transmitter.

- Signal extension up to 100M



HE03-4K6G (Tx & Rx, Front & Rear Panel Preview)

HDMI Transmission

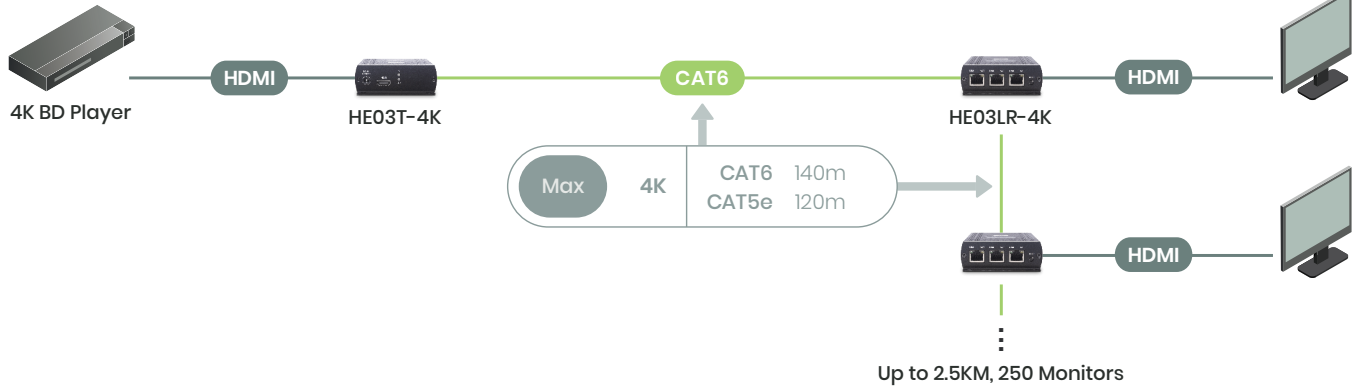
Receiver HDMI 4K 30Hz IP Transmission CATX Daisy Chain 120m

HE03LR-4K 4K HDMI over IP Extending/Distributing Chainable Receiver 120m

- To work with HE03T-4K for multiple outputs and further extension.
- Built-in 1 x HDMI output and 2 x RJ45 output for daisy chain
 - Support output up to 250 displays, distance up to 2.5km
 - Cable recommended: UTP CAT5e AWG 24 bare copper wire or higher spec
 - Max. resolution: up to 4K 30Hz
 - Max. audio: up to LPCM7.1@192KHz



HE03LR-4K



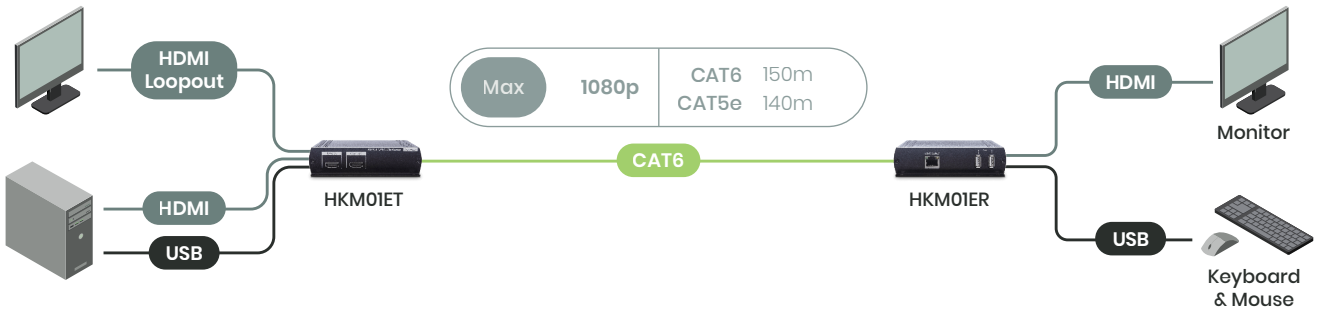
Extender HDMI KVM 1080p IP Transmission CATX Loop out Keyboard/Mouse Only 140m

HKM01E HDMI KVM over IP Extender 140m

- To extend HDMI and USB keyboard mouse signals over one CAT5e cable.
- Transmitter built-in HDMI loop out
- Receiver built-in 2 x USB output for keyboard and mouse
- Option model: SR01X signal repeater for longer distance application
- Cable recommended: UTP CAT5e AWG 24 bare copper wire or higher spec
- Max. resolution: up to 1920x1080 60Hz



HKM01E



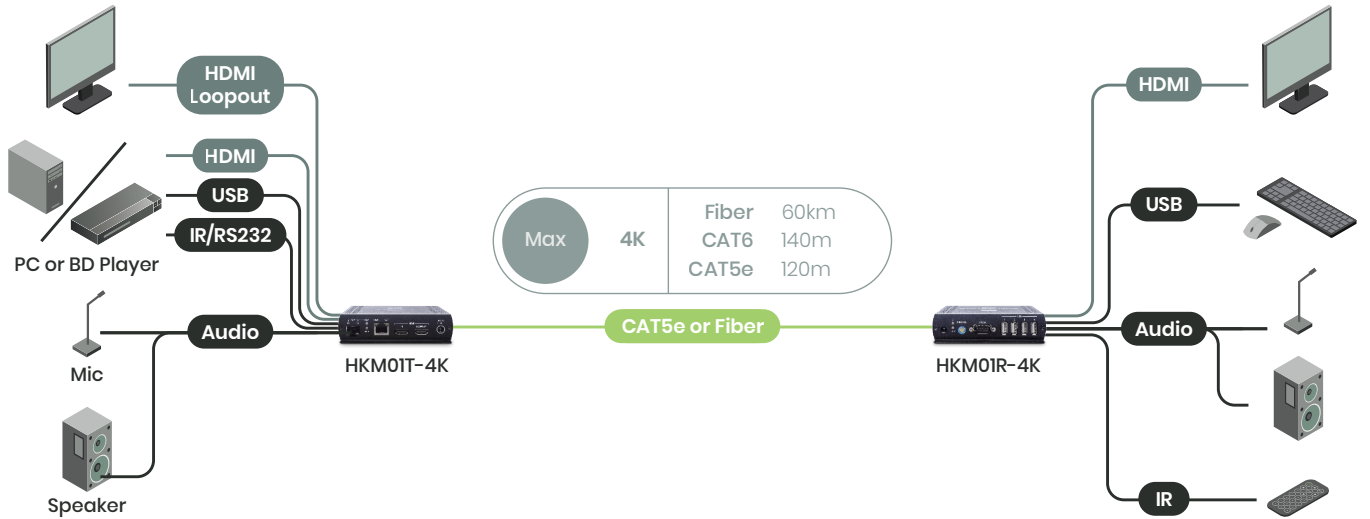
Extender HDMI KVM 4K 30Hz IP Transmission CATX Fiber Loop out 120m/60km

HKM01-4K 4K HDMI KVM & USB, Audio, RS232, IR over IP Extender 120m/60km

- To extend HDMI, RS232, IR and USB analog audio signals over one CAT5e cable.
- Transmitter built-in HDMI loop out
 - Receiver built-in USB 2.0 port x 4 for extending USB peripheral device
 - HDMI 1.4b and HDCP compliant
 - Support Bi-Directional analog audio transmission, and uni-directional IR transmission
 - Support SFP for longer distance
 - Cable recommended:
 - UTP CAT5e AWG 24 bare copper wire or higher spec.
 - OS1 (single-mode)/ OM3(multi-mode) fiber or higher
 - Max. resolution: up to 4K 30Hz
 - Max. audio: up to LPCM7.1@192KHz



HKM01-4K



Extender HDMI KVM 4K 60Hz IP Transmission CATX Fiber Loop out 100m/60km

HKM01-4K6G 4K 60Hz HDMI KVM & USB, Audio, RS232, IR over IP Extender 100m/60km

Identical to HKM01-4K with 4k 60Hz resolution

- Signal extension up to 100M.
- 60KM over single mode fiber optic.



HKM01-4K6G
(Tx & Rx, Front Panel Preview)

HDMI over Fiber Extender

Extender HDMI 4K 30Hz Fiber 1 km

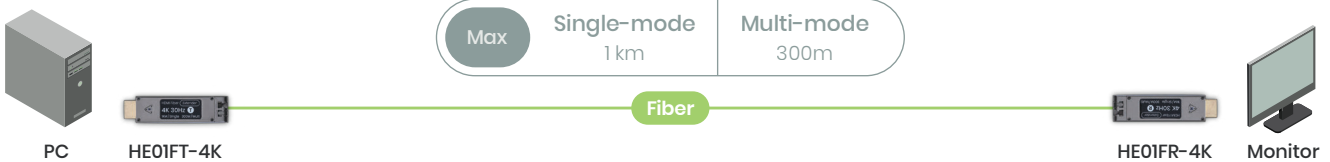
HE01F-4K 4K 30Hz HDMI Fiber mini Extender 1km

To Extend 4K 30Hz HDMI signal with over one fiber cable.

- Built-in one LC connector to send HDMI signal over one fiber cable
- Supports EDID bypass
- Low latency
- Plug & Play, USB powered



HE01F-4K



Extender HDMI KVM 4K 60Hz Fiber Keyboard/Mouse Only 60 km

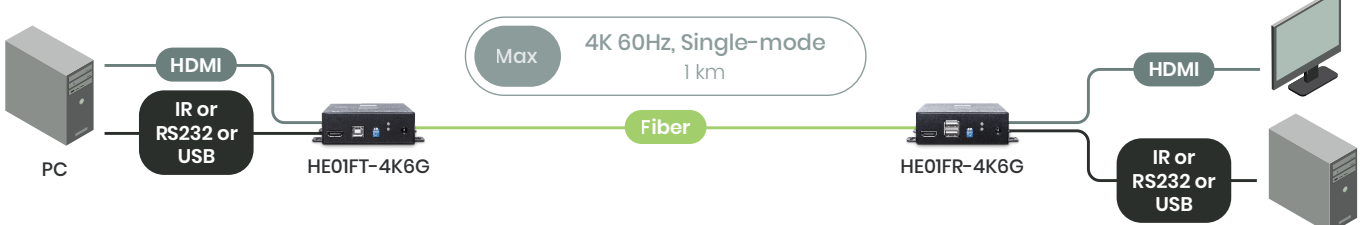
HE01F-4K6G 4K 60Hz HDMI & IR/RS232/USB Fiber Extender 60km

To extend 4K 60Hz HDMI signal with IR/RS232/USB over fiber cable.

- Support HDMI 2.0/HDCP 2.2
- IR/RS232/USB function selection
- Support USB keyboard mouse
- Support Bi-directional IR and RS232
- SFP Module: 10 Gbps SFP
- Max. resolution: up to 4K 60Hz
- Max. audio: up to LPCM7.1@192KHz. Dolby TrueHD



HE01F-4K6G



HDMI Transmission

Extender HDMI KVM 4K 60Hz Fiber Keyboard/Mouse Only 2 km

HE01F-4K6G-KS 4K 60Hz HDMI & IR/RS232/USB Fiber Extender 2km

Package include: HE01FT-4K6G x1, HE01FR-4K6G x1
10Gbps SFP+ 2 km single mode optical transceiver x 2
• up to 2km at 4K60Hz fiber



Extender HDMI KVM 4K 60Hz Fiber Keyboard/Mouse Only 300m

HE01F-4K6G-KM 4K 60Hz HDMI & IR/RS232/USB Fiber Extender 300m

Package include: HE01FT-4K6G x1, HE01FR-4K6G x1
10Gbps SFP+ 2 km multi-mode optical transceiver x 2
• up to 300m at 4K60Hz fiber



HDMI over Coaxial Transmission

Extender HDMI 1080p Coax Daisy Chain 100m

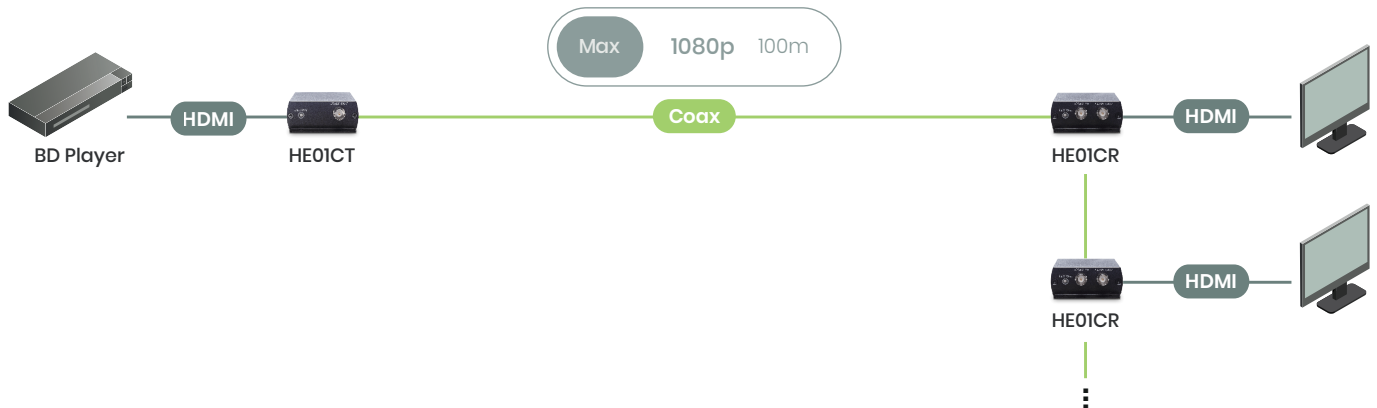
HE01C HDMI over Coaxial Extender 100m

To send HDMI signal over one coaxial cable.

- Receiver supports daisy chain function for multiple displays (HE01CR)
- Support HDMI 7.1 channel audio
- Cable recommended: RG59 or higher
- Max. resolution: up to 480i, 576i, 720p, 1080i, 1080p



HE01C



Extender HDMI 1080p Coax Loopout 500m

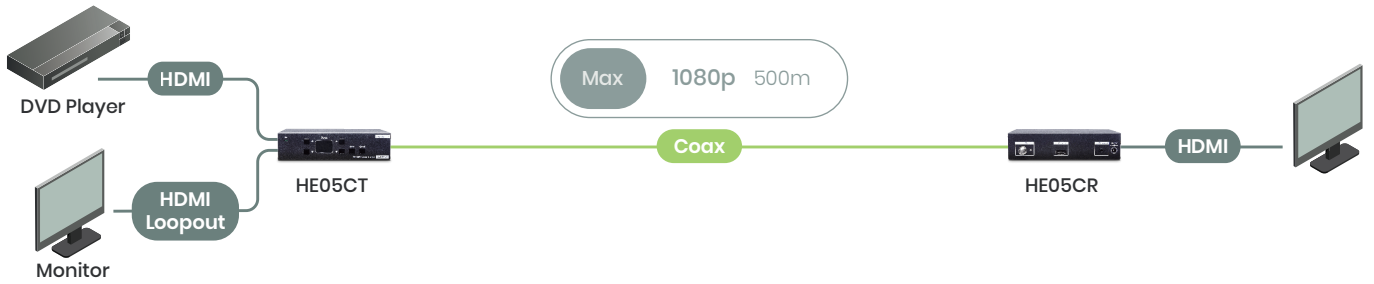
HE05C HDMI over Coaxial (Digital RF DVB-T) Extender 500m

To send HDMI signal over coaxial cable by DVB-T RF Modulator technology.

- Support multiple inputs to multiple displays application by working with RF splitter/mixer.
- Transmitter built-in HDMI loop out
- Applications for hotels, hospitals, schools, shops where need meeting video distribution, digital signage, student training broadcasting, DVD/Blue Ray players video distribution, surveillance...etc.
- Max. resolution: up to 1080p 50/60Hz
- Video encoding: H.264
- Audio encoding: MPEG2
- Max channel: 99 channels
- Cable recommended: RG59 or higher



HE05C



HDMI Distributor Amplifier

Distributor HDMI 1 to 2 4K 30Hz

HD02-4K 4K 1 x 2 HDMI Distribution Amplifier

To reclocks and distributes one HDMI input to two identical outputs.

- Support 3D, Deep color
- Built-in EDID management
- Max. resolution: up to 4K 30Hz
- Max. audio: LPCM 7.1, Dolby TrueHD, DTS-HD MA
- Compliance: HDMI 1.4, HDCP 1.4



HD02-4K

Audio Extractor HDMI Distributor 1 to 2 SPDIF 3.5mm Scaler 4K 60Hz

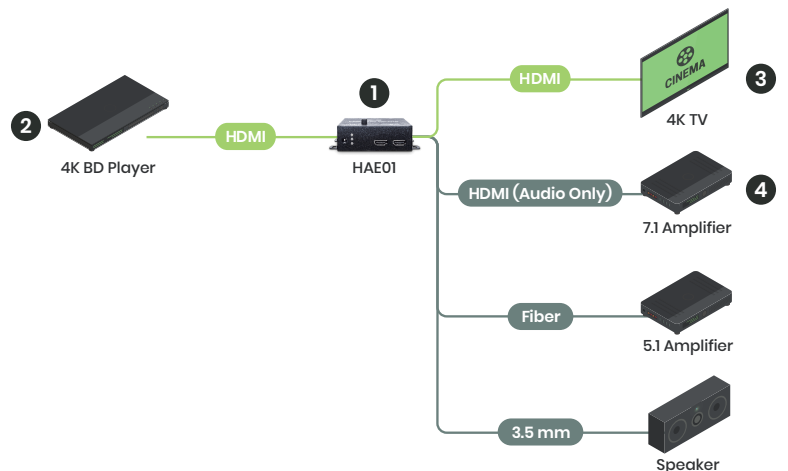
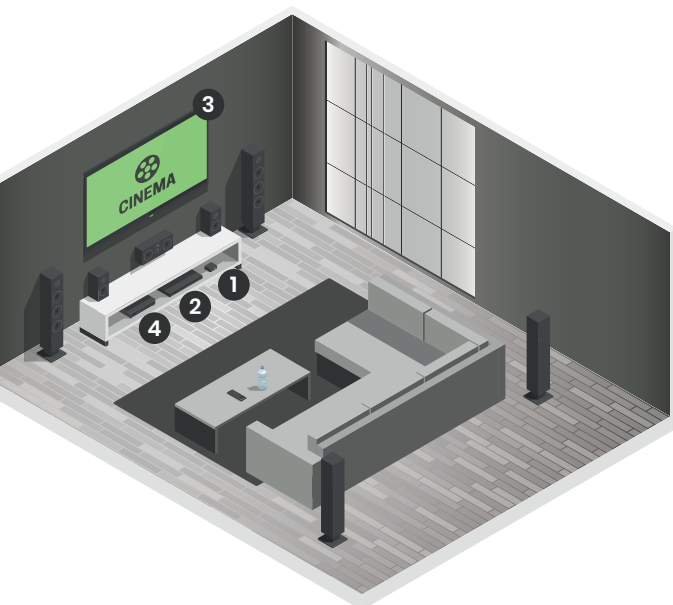
HAE01 4K 60Hz 1 x 2 HDMI Distribution Amplifier with Audio Extractor & Scaler

To distribute one 4K 60Hz signal to two identical outputs with additional audio extract and scaler function.

- Supports 1080p upscaling to 4K, 4K downscaling to 1080p
- Supports HDCP 2.2 to HDCP 1.4 conversion
- Supports 4K 4:4:4 to 4:2:0 conversion
- Supports HDMI audio extract
- Support CEC, 3D, HDR10
- Built-in EDID management
- Max. resolution: up to 4K 60Hz
- Max. audio: LPCM7.1@192KHz, Dolby TrueHD, DTS-HD MA
- Compliance: HDMI 2.0, HDCP 2.2
- Max bandwidth: 18Gbps (6Gbps per color)



HAE01



HDMI Transmission

Distributor HDMI 1 to 4 4K 60Hz

HD04-4K6G 4K 60Hz 1 x 4 HDMI Distribution Amplifier

To distribute one 4K 60Hz HDMI input to four identical outputs.

- Support 3D, HDR10, Deep color 16bit
- Built-in EDID management
- Resolution: up to 4K 60Hz
- Max. audio: LPCM 7.1, Dolby TrueHD, DTS-HD MA
- Compliance: HDMI 2.0, HDCP2.2/1.4
- Max bandwidth: 18Gbps (6Gbps per color)



HD04-4K6G

Distributor HDMI 1 to 10 4K 60Hz

HD10-4K6G 4K 60Hz 1 x 10 HDMI Distribution Amplifier

To distribute one 4K 60Hz HDMI input to ten identical outputs.

- Support 3D, HDR10
- Built-in EDID learning function.
- Max. resolution: up to 4K 60Hz
- Max. audio: LPCM 7.1, Dolby TrueHD, DTS-HD MA
- Compliance: HDMI 2.0, HDCP2.2/1.4
- Max bandwidth: 18Gbps (6Gbps per color)



HD10-4K6G

HDMI Distribution Amplifier CAT5e Extender

Distributor Extender HDMI 1 to 4 1080p Stackable 40m

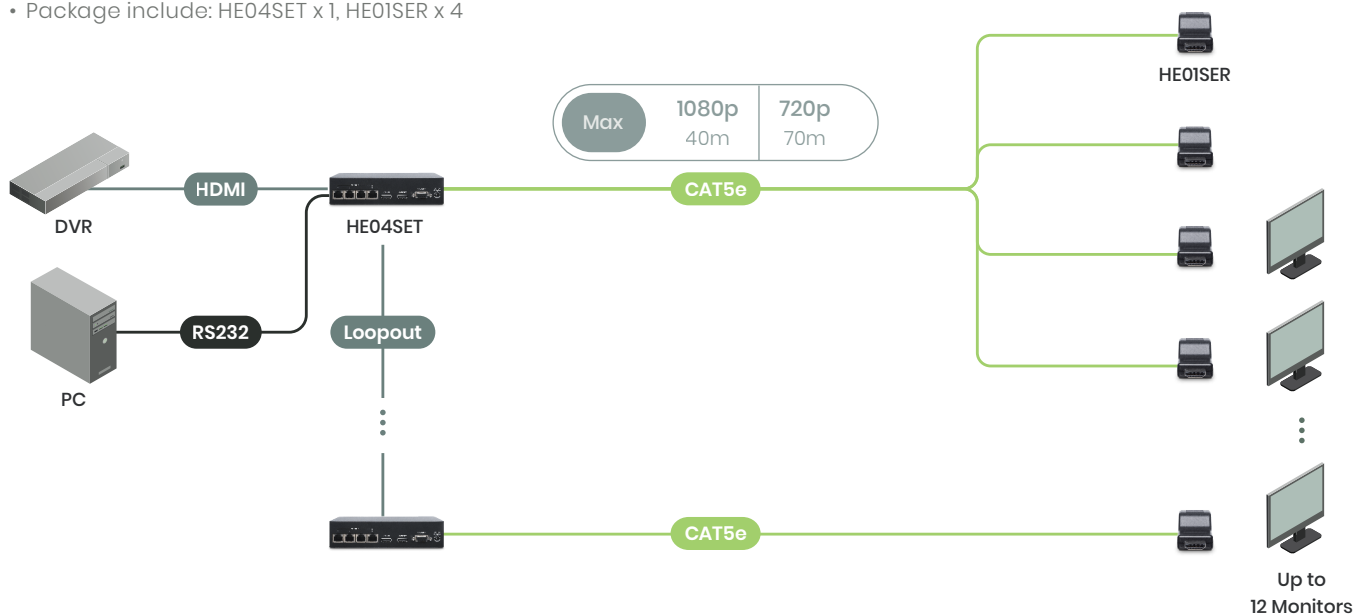
HE04SEK 1 x 4 HDMI Distribution Amplifier CAT5e Extender Kit

To distribute and extend one HDMI signal to four remote HDMI displays over CAT5e cables.

- Transmitter built-in HDMI loop out for local display or stack to another HE04SET for multiple displays
- No power required at receiver side (HE01SER)
- Built-in EDID management
- Max. resolution: up to 1080p 60Hz
- Max. audio: LPCM 5.1, Dolby TrueHD, DTS-HD MA
- Compliance: HDMI 1.4, HDCP 1.4
- Package include: HE04SET x1, HE01SER x 4



HE04SEK
(HE04SET + HE01SER)



HDMI Switcher

Switcher HDMI KVM 4 to 1 Multiview Mouse Roaming 1080p Multi-control

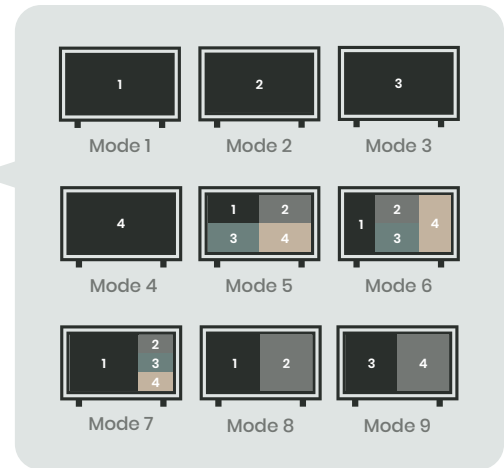
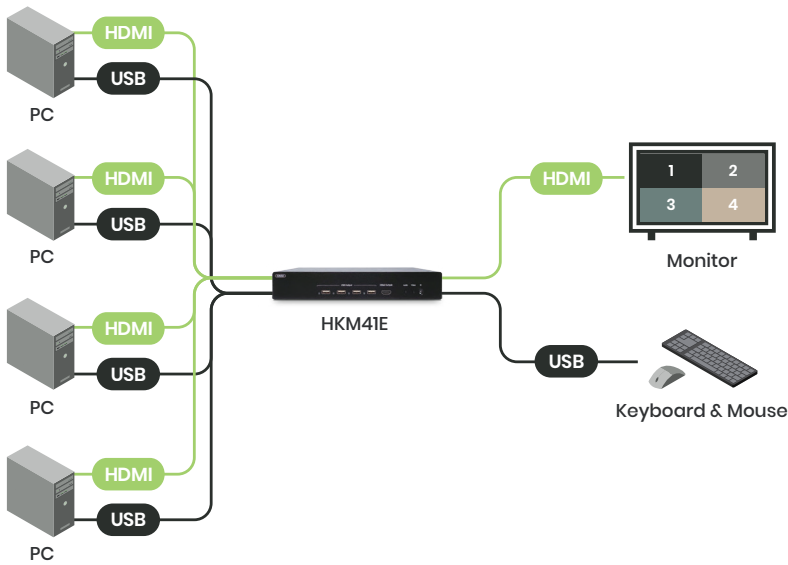
HKM41E HDMI KVM 4 x 1 Seamless Multiview Switcher

To switch seamlessly one of four KVM inputs and several multi-view modes to one HDMI output.

- Support scaler up to 1080p
- Easily control by hot key, front panel, IR remote
- Supports USB 2.0
- Supports multi-view and seamless switching
- Supports mouse roaming
- Supports Windows, Linux, MAC OS and Android operation system



HKM41E



Switcher HDMI KVM 4 to 1 Multiview Mouse Roaming 4K 60Hz Multi-control

HKM41-4K6G HDMI KVM 4 x 1 Seamless Multiview Switcher

Identical to HKM41E with 4K 60Hz resolution.

HDMI Transmission

Switcher HDMI 4 to 1 Multiview 1080p Multi-control

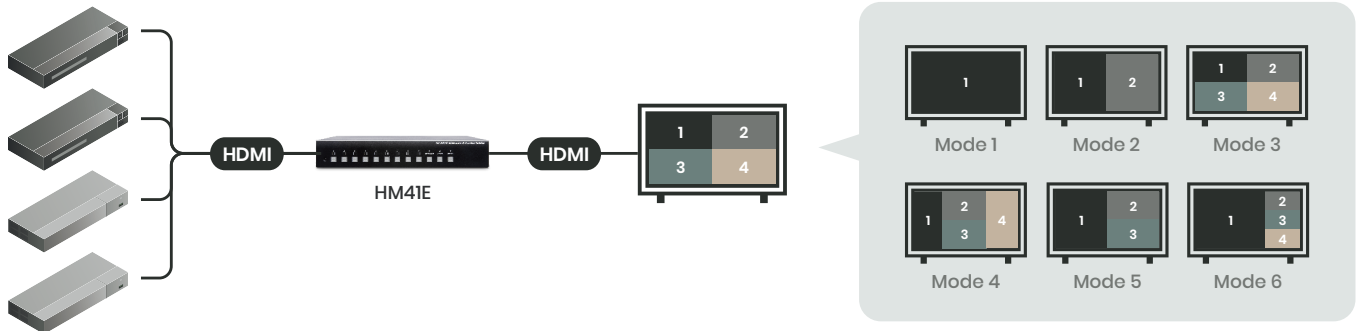
HM41E HDMI 4 x 1 Seamless Multiview Switcher

To switch seamlessly one of four inputs and five multiview mode to one HDMI output.

- Support scaler up to 1080p
- Easily control by front panel, IR remote, RS232
- Support auto-switching function in Mode 1
- Support different mode display: Quad, picture on picture (POP) and full screen display
- Max. resolution: up to 1080p 60Hz
- Compliance: HDMI 1.3 / HDCP 1.4 / DVI 1.0 compliant
- Max. audio: up to LPCM2.0



HM41E



Switcher HDMI 4 to 1 4K 60Hz Multi-control

HS04-4K6G HDMI 4K 60Hz 4 x 1 Switcher

To switches one of the four inputs to one HDMI output.

- Easily control by front panel or IR remote or RS232
- Built-in RS232 with PC remote control or firmware updated.
- Support Deep Color 12 Bits, 3D, HDR10
- Built-in auto-scan function. (Automatically switch to next available input, when selected input is not available)
- Built-in auto-jump function. (Automatically switch to new incoming input)
- Max resolution support: up to 4K 60Hz
- Max. audio: LPCM 7.1, Dolby TrueHD, DTS-HD MA
- Compliance: HDMI 2.0, HDCP 2.2/ 1.4
- Max bandwidth: 18Gbps (6Gbps per color)



HS04-4K6G

HDMI Matrix Switcher

Matrix HDMI 4 to 2 4K 60Hz Audio Extractor Scaler Multi-control

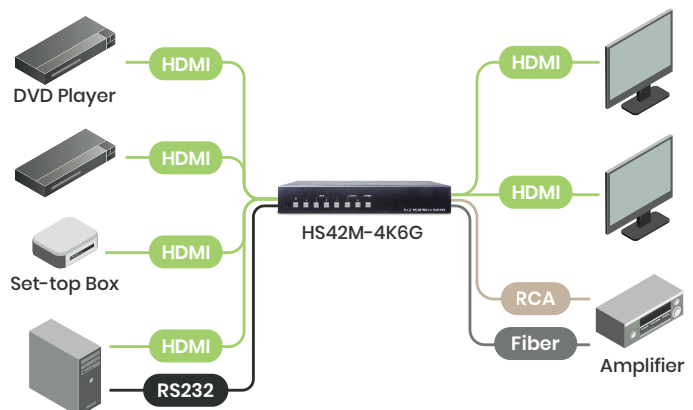
HS42M-4K6G 4K 60Hz 4 x 2 HDMI Matrix Switcher with Audio Extractor & Scaler

To route four HDMI input to two HDMI output with audio extract and scaler.

- Supports 1080p upscaling to 4K, 4K downscaling to 1080p
- Supports HDCP 2.2 to HDCP 1.4 conversion
- Supports 4K 4:4:4 to 4:2:0 conversion
- Support HDMI audio extract (RCA or TOSLINK output)
- Support CEC, 3D, HDR10
- Built-in EDID management
- 3 operation mode: Matrix, Splitter and Separation
- Easily control by front panel, IR, RS232
- Built-in OSD (On Screen Display) for easy operation
- Max. resolution: up to 4K 60Hz
- Max. audio: LPCM 7.1@192KHz, Dolby TrueHD, DTS-HD MA
- Compliance: HDMI 2.0, HDCP 2.2
- Max bandwidth: 18Gbps (6Gbps per color)



HS42M-4K6G



Matrix HDMI 4 to 4 1080p Multiview Video Wall Multi-control

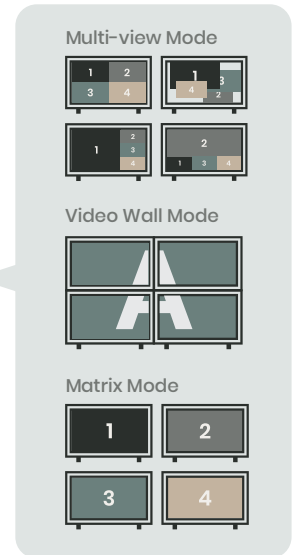
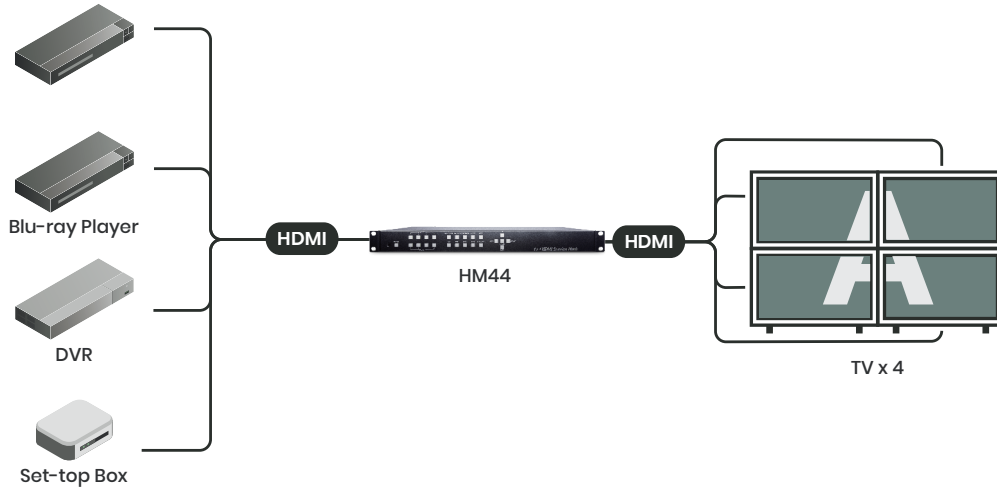
HM44 HDMI 4 x 4 Seamless Multiview & Video Wall Matrix Switcher

Support four HDMI input to four displays with seamless switching

- Support PIP/POP/Quad multi-view display
- Support 2x2 video wall
- Output support up/down scaler function
- Flexible control options: Front panel, IR remote, RS232, Web GUI, APP
- Max. resolution: up to 1080p 60Hz
- Max. audio: LPCM7.1, Dolby TrueHD, DTS-HD MA
- Compliance: HDMI 1.4, HDCP 1.4



HM44



Matrix HDMI 4 to 4 4K 60Hz Audio Extractor Multi-control

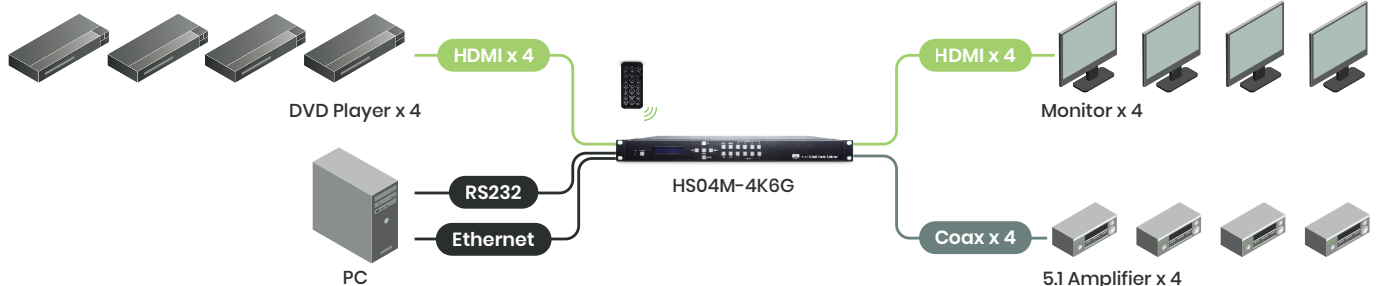
HS04M-4K6G 4K 60Hz 4 x 4 HDMI Matrix Switcher with Audio Extractor

To route four HDMI input to four HDMI output

- Support ARC function
- Extract audio from HDMI or ARC port to SPDIF output
- Flexible control option: front panel, IR remote, RS232, Web GUI, Telnet, APP
- Front panel LCM & LED display input/output status
- Max. resolution: up to 4K 60Hz
- Max. audio: LPCM7.1@192KHz, Dolby TrueHD, DTS-HD MA, ATMOS, DTS:X
- Compliance: HDMI 2.0, HDCP 2.2/1.4
- Max bandwidth: 18Gbps (6Gbps per color)



HS04M-4K6G



Matrix

HDMI

10 to 10

4K 60Hz

Audio Extractor

Multi-control

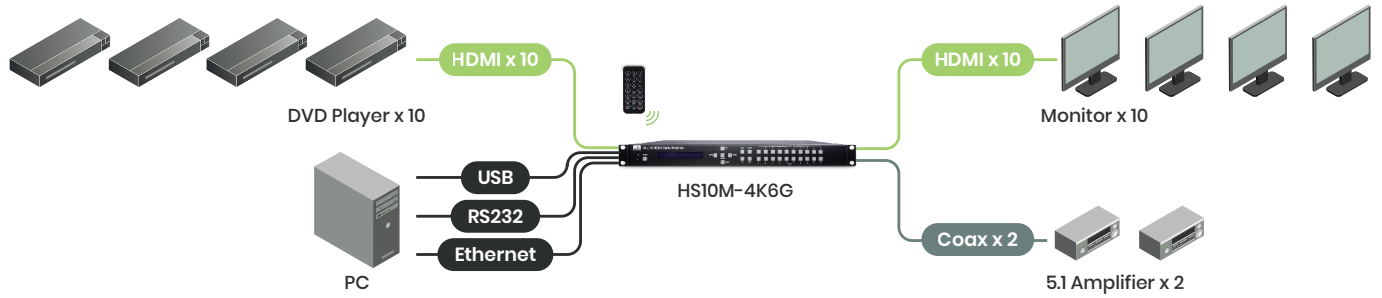
HS10M-4K6G 4K 60Hz 10 x 10 HDMI Matrix Switcher with Audio Extractor

To route 10 HDMI input to 10 HDMI output

- Support ARC function
- Extract audio from HDMI or ARC port to SPDIF output
- Flexible control option: front panel, IR remote, RS232, Web GUI, Telnet, APP
- Front panel LCM & LED display input/output status
- Max. resolution: up to 4K 60Hz
- Audio support: LPCM7.1@192KHz, Dolby TrueHD, DTS-HD MA, ATMOS, DTS:X
- Compliance: HDMI 2.0, HDCP 2.2/1.4
- Max bandwidth: 18Gbps (6Gbps per color)



HS10M-4K6G



HDMI Tools: Audio Extractor/Converter/Repeater/Surge Protector

Audio Extractor Distributor HDMI 4K 60Hz 1 to 2 SPDIF 3.5mm Scaler

HAE01 4K 60Hz 1 x 2 HDMI Audio Extracting Distribution Amplifier with Scaler

To distribute one 4K 60Hz signal to two identical outputs with additional audio extract and scaler function.

- Resolution: up to 4K 60Hz
- Max. audio: LPCM7.1@192KHz, Dolby TrueHD, DTS-HD MA
- Compliance: HDMI 2.0, HDCP 2.2
- Max bandwidth: 18Gbps (6Gbps per color)



HAE01

Repeater HDMI 4K 60Hz 20m Stackable

HR01-4K6G 4K 60Hz HDMI Repeater

To boost 4K 60Hz HDMI signal for longer transmission.

- Gets power from external adapter which makes better signal boosting performance
- Allow to chain multiple units for long distance
- CEC pass through
- Cable recommended: HDMI 19pin AWG26 bare copper wire with data shield and GND or higher spec
- Max. resolution: up to 4K 60Hz
- Max. distance: input 10m/ output 10m
- Compliance: HDMI 2.0, HDCP 2.2/1.4
- Max bandwidth: 18Gbps (6Gbps per color)



HR01-4K6G



Surge Protector HDMI Static Electricity

SP008 HDMI Surge Protector

To provide surge protection for HDMI devices

- Compliant IEC61000-4-2, IEC61000-4-4, IEC61000-4-5
- Built-in ESD, EFT (impulse noise) protection
- Connector: HDMI female & HDMI female
- Response time: < 1ns



SP008



DisplayPort Extender

Extender DisplayPort 4K 60Hz HDBaseT KVM USB IR RS232 Audio Extract CAT6 100m

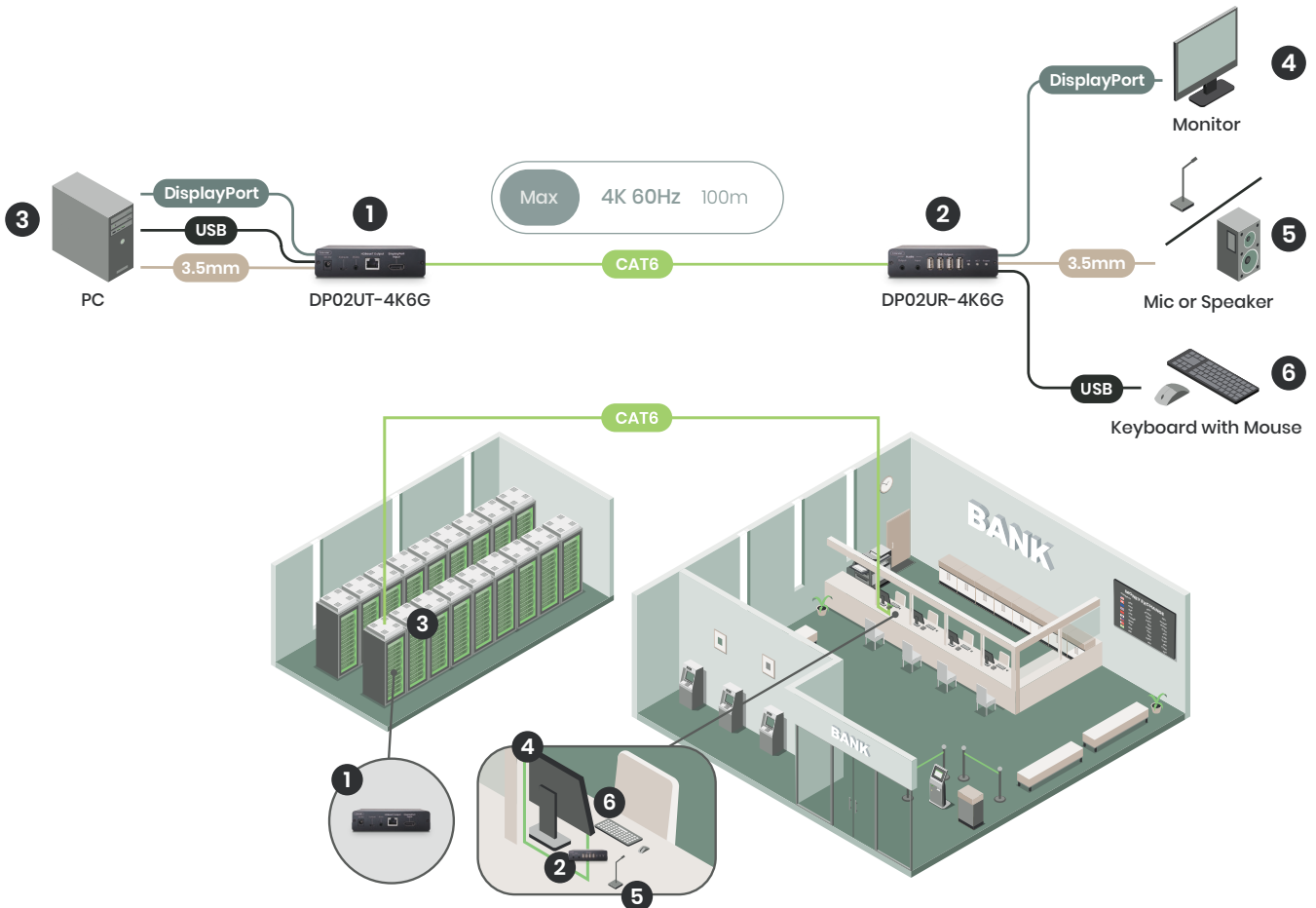
DP02U-4K6G 4K 60Hz DisplayPort KVM & USB, RS232 CAT6 Extender 100m

To extend DisplayPort signal with USB/RS232 over one CAT6 cable.

- Uncompressed high-definition video up to 4K 60Hz
- Audio support: LPCM7.1@192KHz, Dolby TrueHD, DTS-HD MA
- Compliance: DP 1.2a, HDCP 2.2
- Max bandwidth: 18 Gbps (6Gbps per color)



DP02U-4K6G



Extender DisplayPort 4K HDBaseT KVM USB IR RS232 CAT5e 100m

DP02U 4K DisplayPort KVM USB, RS232 CAT5e Extender

To extend DisplayPort signal with USB/RS232 over one CAT5e cable.

- Uncompressed high-definition video up to 4K 30Hz
- Audio support: LPCM7.1@192KHz, Dolby TrueHD, DTS-HD MA
- Compliance: DP 1.2a, HDCP 1.4
- Max bandwidth: 10.2 Gbps



DP02U



Extender DisplayPort KVM 4K 60Hz Fiber Keyboard/Mouse Only 60 km

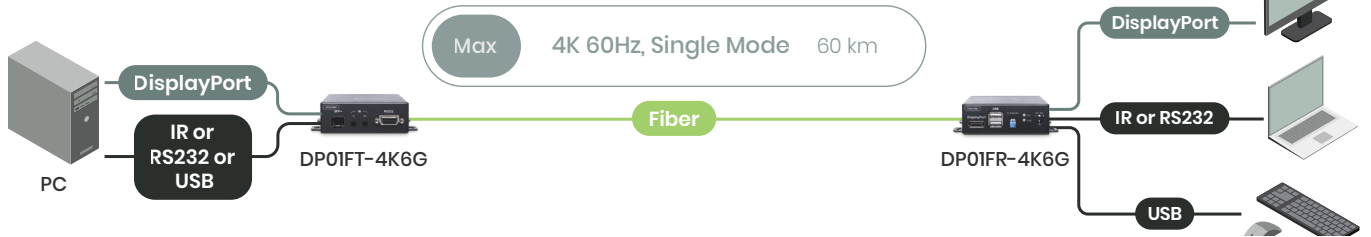
DP01F-4K6G 4K60Hz DisplayPort & USB, IR, RS232 KVM Fiber Optic Extender

To extend 4K 60Hz DisplayPort signal with IR/RS232/USB over fiber cable.

- Support DisplayPort 1.2, HDCP 2.2
- IR/RS232/USB function selection.
- Support USB keyboard mouse
- Support Bi-directional IR and RS232
- SFP Module: 10 Gbps SFP
- Max. resolution: up to 4K 60Hz
- Max. audio: up to LPCM7.1@192KHz. Dolby TrueHD



DP01F-4K6G



Extender DisplayPort 4K HDBaseT CAT5e 40m

DP02E 4K DisplayPort CAT5e Extender 40m

To extend DisplayPort signal over one CAT5e cable.

- Uncompressed high definition video up to 4K 30Hz
- Audio support: LPCM7.1@192KHz, Dolby TrueHD, DTS-HD MA
- Compliance: DP 1.2a, HDCP 1.4



DP02E



DVI Extender

Extender DVI 1920x1200 Passive CAT5e 50m

DE01ERK DVI CAT5e Passive Extender 50m



DE01ERK

To send DVI signal via one CAT5e cable.

- No external power is required
- Built-in micro USB for external power when your DVI source doesn't provide enough power to the receiver
- Resolution: up to 1920x1200
- Compliance: DVI 1.1



Extender DVI CAT5e 100m HDBaseT

DE02E DVI CAT5e Extender 100m



DE02E

To extend DVI Signal over one CAT5e cable.

- Resolution: up to 1920x1200
- Compliance: DVI 1.1, HDMI 1.3, HDCP 1.4



Extender DVI KVM 1920x1200 USB RS232 Audio CAT5e 120m

DKM01 DVI KVM & USB/Audio/RS232 CAT5e Extender 120m



DKM01

To extend DVI, USB, RS232, and audio signals over one CAT5e cable.

- Transmitter built-in DVI loop out for local display
- Receiver built-in 4 x USB port for extending USB peripheral device
- Support Bi-directional analog audio, RS232 extension
- Support EDID management
- Resolution: up to 1920x1200 60Hz
- Compliance: HDMI 1.4, HDCP 1.4
- Optional model: SR01X (page 15)



VGA/CATV Transmission

Item No.	Resoluiton (Max)	Distance (Max)	Audio	USB
VE01P	1280 x 1024	100m	-	-
VE01H	1920 x 1200	70m	-	-
VE01HA	1920 x 1200	70m	Yes	-
VKM02	1280 x 1024	100m	-	Yes
VKM04	1920 x 1200	120m	Yes	Yes

VGA CAT5e Extender

Extender VGA 800x600 CAT5e 100m

VE01P VGA CAT5e Passive Extender 100m

To send VGA signal over one CAT5e cable

- Passive, no power required.
- Cable: UTP CAT5e AWG 24 bare copper wire or higher spec
- Resolution: up to 1280x1024
- Max. distance: 100m at 800x600 CAT5e



VE01P

Extender VGA 1920x1200 CAT5e 70m

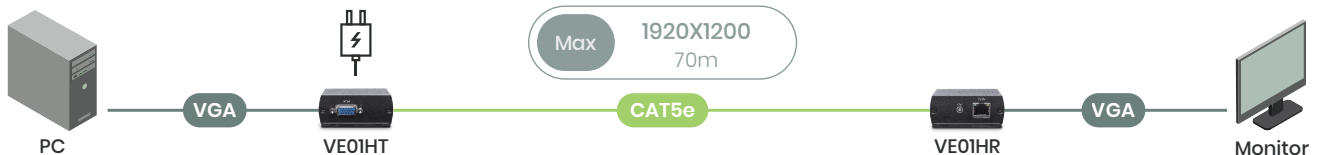
VE01H VGA High Resolution CAT5e Extender 70m

To extend high-resolution VGA signal over one CAT5e cable.

- No power required at receiver side
- Cable recommended: UTP CAT5e AWG 24 bare copper wire or higher spec
- Resolution: up to 1920x1200 60Hz



VE01H



Extender VGA 1920x1200 Stereo Audio CAT5e 70m

VE01HA VGA High Resolution & Audio CAT5e Extender 70m

Identical to VE01H, but with stereo audio function.

- Audio transmission by digital encoding technology for undistorted sound
- Cable recommended: UTP CAT5e AWG 24 bare copper wire or higher spec
- Resolution: up to 1920x1200 60Hz
- Audio format: stereo audio



VE01HA



Extender VGA 800x600 KVM Passive CAT5e 100m

VKM02 VGA KVM CAT5e Passive Extender 100m

To extend VGA and keyboard mouse over 2 CAT5e UTP cables.

- Transmitter unit built-in virtual DDC to avoid improperly setting at resolution and frequency
- Transmitter unit built-in sync mode selection for signal stability
- Receiver unit built-in sync filter level adjustment for signal stability
- Passive device, not support VGA DDC protocol
- Cable recommended: UTP CAT5e AWG 24 bare copper wire or higher spec
- Max Resolution: up to 1280x1024



VKM02



Extender VGA KVM Stereo Audio RS232 IR CAT5e 120m

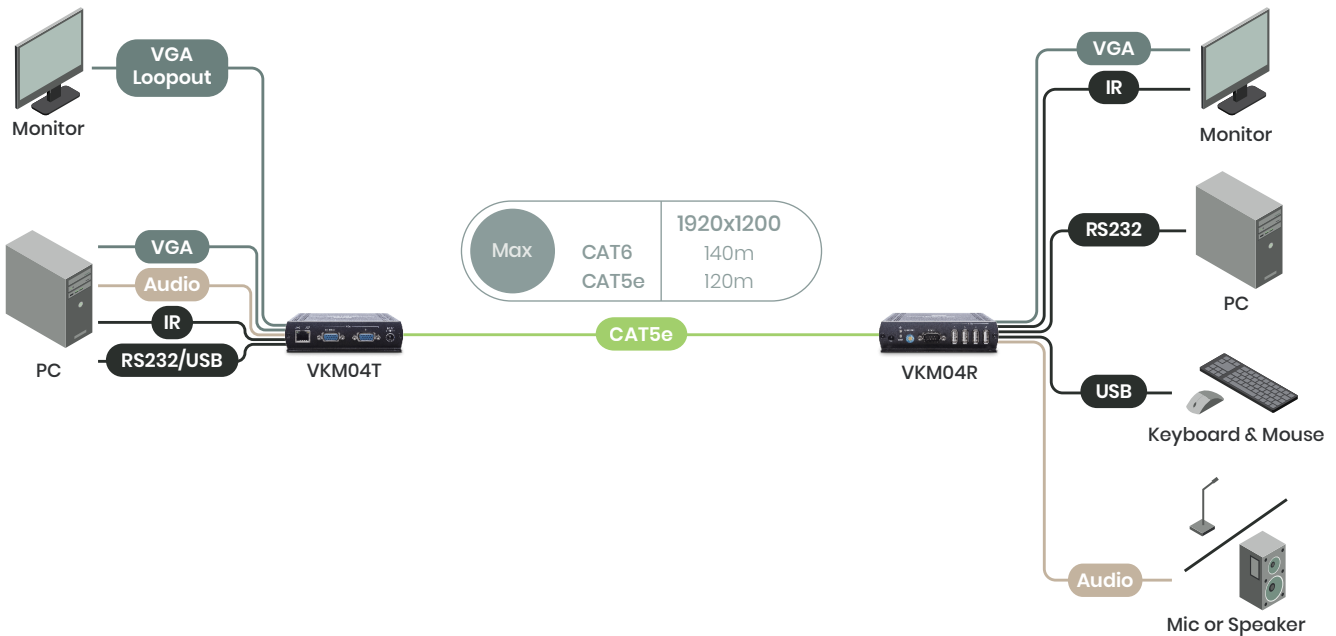
VKM04 VGA KVM & USB, Audio, RS232, IR CAT5e Extender 120m

To extend VGA, stereo audio, RS232, IR and USB signals over one CAT5e cable.

- Transmitter unit built-in VGA loop out for local display
- Receiver unit built-in USB 2.0 port x 4 for extending USB peripheral device
- Support Bi-directional analog audio, RS232 extension
- Support IR one directional extension
- Plug and play for easy operation
- Optional model: SR01X, IR-CR01
- Max. resolution: up to 1920x1200 60Hz



VKM04



VGA Distributing CAT5e Extender

Extender VGA Loopout CAT5e 300m

VE02 VGA CAT5e Extender 300m with Loop Out

To extend VGA signal over one CAT5e cable with one VGA loop out at transmitter side for local display.

- Dual output: 1xVGA loop out and 1x RJ45 output for remote side
- Built-in contrast, brightness adjustment at receiver
- Cable recommended: UTP CAT5e AWG 24 bare copper wire or higher spec
- Resolution: up to 1600x1200 85Hz



VE02
(VE02T + VE01R)



VGA Converter

Converter VGA CVBS 1024x768

VC01 VGA to CVBS Converter

To convert to VGA signal to CVBS.

- Dual output: CVBS, VGA loop out



VC01

Input	Resoluiton (Max)	VGA	
	1024 x 768	75Hz	
Output	Resoluiton (Max)	VGA	CVBS
	1024 x 768	75Hz	N/A
	NTSC/PAL	N/A	50/60Hz

Converter VGA HDMI 1920x1200

VH01E VGA & Audio to HDMI Converter

To convert VGA & Stereo/Digital audio to HDMI.

- Embed analog stereo or digital audio to HDMI signal
- Built-in auto-selection on the stereo and digital audio



VH01E

Input	Resoluiton (Max)	VGA
	1920 x 1200	60Hz
Output	Resoluiton (Max)	HDMI
	1920 x 1200	60Hz



CATV CAT5e Extender

Extender CATV/VHF/VHF/FM CAT5e 30m

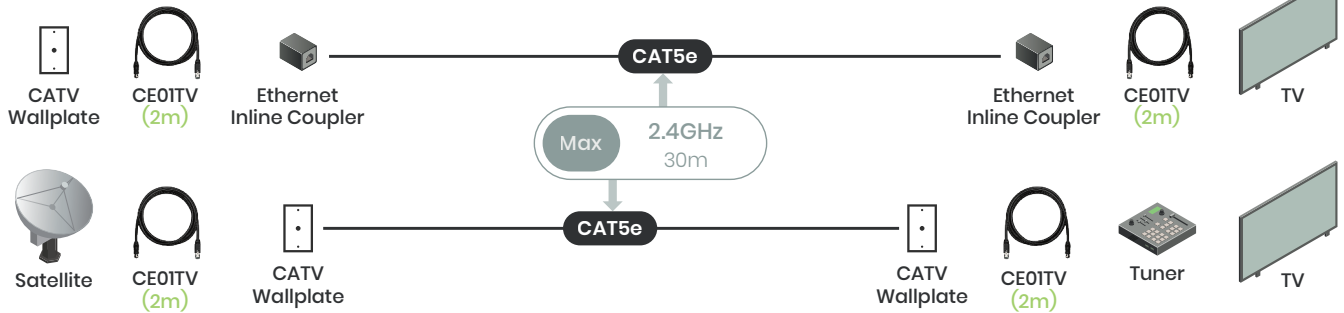
CE01TV CATV CAT5e Extender 30m

To send broadband CATV, VHF, VHF and FM signal over CAT5e cable.

- Shielded RJ45 male with 2M RG6U coaxial cable
- Passive type, no power required
- Compatible with CATV, satellite receivers, RF splitter and amplifier
- Cable recommended: UTP CAT5e AWG 24 bare copper wire or higher spec
- Bandwidth 40MHz - 2.4GHz



CE01TV



Microphone

Audio Microphone RCA

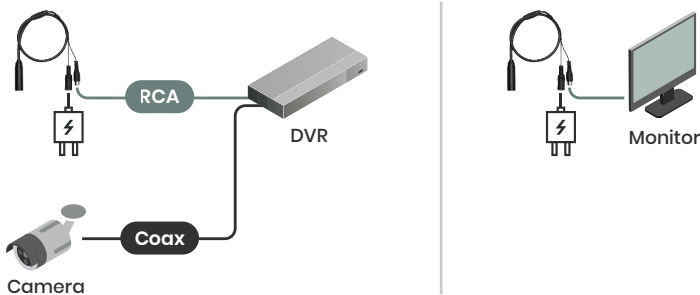
AA002 Audio Microphone

High sensitivity microphone with 45 cm power/audio cable.

- Easy to install and ideal for all security surveillance needs
- Power input: DC12V
- Sensitivity: -65dB



AA002



Audio Microphone Hidden Type 3.5mm

AA003PJA Mini Hidden Microphone with Volume Control

High sensitive microphone with 50cm power/audio cable, mini hidden audio board type, with 3.5mm phone jack connector and adjustable volume control



AA003PJA



Audio Extender

Extender Audio Passive 3.5mm CATX 600m

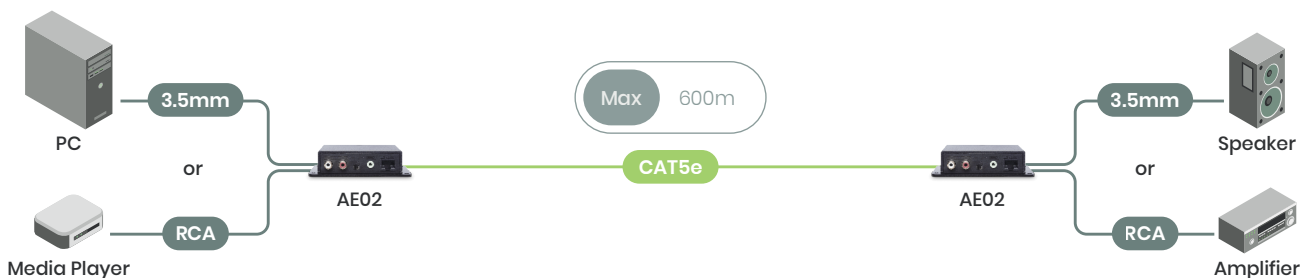
AE02 Stereo Audio CAT5e Extender 600m

To send stereo audio signal over CAT5e cable.

- Select input of stereo audio or 3.5mm phone jack by dip switch
- Passive, no power required
- Eliminate the audio ground loop problem
- Cable recommended: UTP CAT5e AWG 24 bare copper wire or higher spec
- Bandwidth: 20Hz-20KHz
- Connector: dual gold-plated RCA female & 3.5mm phone jack



AE02



Audio Tools

Audio Isolator 3.5mm

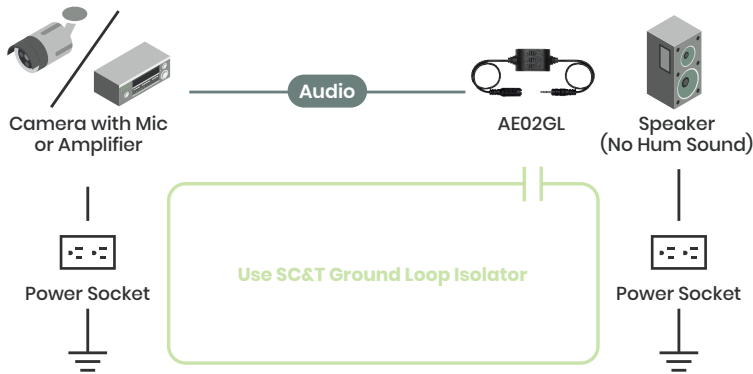
AE02GL Stereo Audio Ground Loop Isolator

To eliminate the sound of "Hum" from speakers.

- Provides superior audio performance
- Breaks the electrical ground between audio components, no path for current flow
- Ideal for amplifier and multiple speakers installation
- Bandwidth: 20Hz-20KHz
- Connector: 3.5mm jack & plug



AE02GL



Audio Converter SPDIF RCA

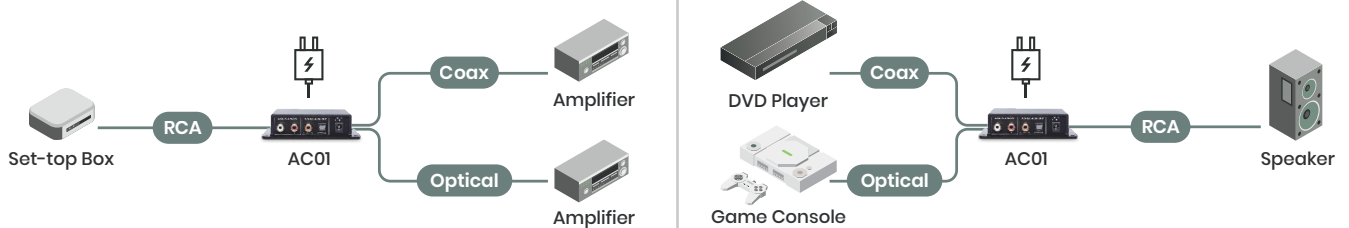
AC01 Analog/Digital Bi-directional Audio Converter

Support digital audio and analog audio bi-directional conversion.

- Support 4 modes of conversion: analog in digital out, digital in analog out, digital coaxial in SPDIF out, SPDIF in coaxial out
- Analog audio bandwidth: up to 48KHz
- Digital audio bandwidth: up to 96KHz
- Connector: RCA, SPDIF(RCA), TOSLINK



AC01



IR Repeater



RPT-104-1

- IR Receiver connector: 1x screw
- IR Emitter connector: 4x jacks (2.1mm)
- Power input: DC12V 500mA (2.1mm jack)



RPT-104-7

- Support up to 2x emitters & 2x blasters
- IR Receiver connector: 1x screw, 1x jack (2.1mm)
- IR Emitter connector: 4x jacks (2.1mm)
- Power input: DC12V 1.2A (2.1mm jack)

IR Receiver



IRC-3060S21

IR Receiver Cable with Plug Connector

- Carrier frequency: 30-60 KHz
- Reception Angle: + / - 45 degree
- Cable length: 2M



IRE-30601C30

USB IR Receiver & Blaster

- Carrier frequency: 30-60 KHz
- Reception Angle: + / - 30 degree
- Cable length: 2M
- Power: USB (5V DC 500mA)

IR Emitter (E: Invisible, F: Visible Red)

IEC-3501E-05 IEC-3501F-05

Single IR Emitter



Reception Angle: +/- 45 degree
Cable length: 3M
Connector: 3.5mm

IEC-3502E-05 IEC-3502F-05

Dual IR Emitter



Reception Angle: +/- 45 degree
Cable length: 3M
Connector: 3.5mm

IEC-0001E-05 IEC-0001F-05

Single IR Emitter



Reception Angle: +/- 45 degree
Cable length: 3M
Connector: strip and tin end

COV-101

IR Emitter Cover



Prevents backward transmission from IR emitters. (signal loss).

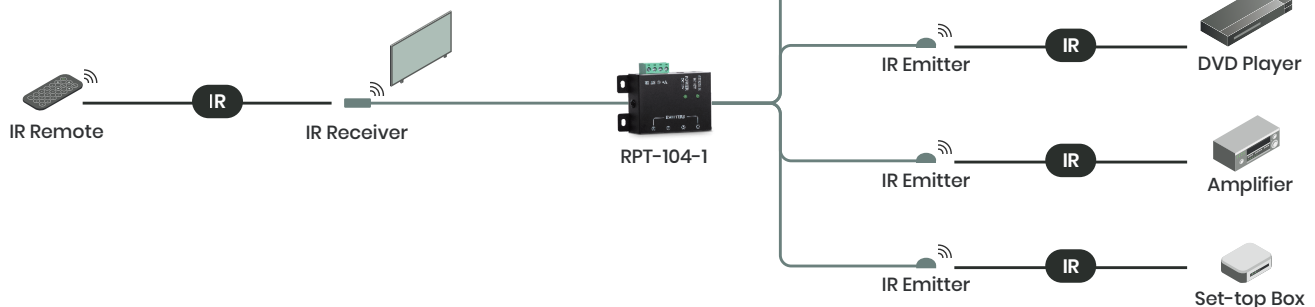
IR 1 X 4 Repeater Distribution Kit

IR Repeater system allows you to control home theater devices located behind cabinet.

IR104K1

Package included:

- RPT-104-1 Repeater x1
- IRC-3060S06 x1 IR receiver cable with strip end
- IEC-3501E-05 x1 Single IR emitter
- IEC-3502F-05 x1 Dual IR emitter
- DC12V 500mA x1 Power adapter



USB CATX Extender

Item No.	Cable	Support Feature	Distance (Max)
UE03H	CAT6a	4 port USB 3.2 Gen1	100m
KM03	CAT5e	Keyboard & Mouse	600m
UE01	CAT5e	1 port USB 1.1	300m
UE02H	CAT5e	4 port USB 2.0	140m
UE03	CAT5e	4 port USB 2.0	60m

Extender USB 3.2 CAT6a 100m

UE03H USB3.2 Port CAT6a Extender 100m

To extend 4 USB devices signal at USB 3.2 over CAT6a cable.

- Supports USB 3.2 Gen1
- Receiver unit is 4-port USB hub
- Supports USB 3.2 devices such as USB camera, printer, scanner, USB Ethernet/ VGA/HDMI adapter, mass storage device, keyboard, mouse, etc
- Compliance: USB 3.2 Gen1
- Max. bandwidth: up to 5Gbps bi-directional



UE03H



Extender Keyboard/Mouse Only CAT5e 600m

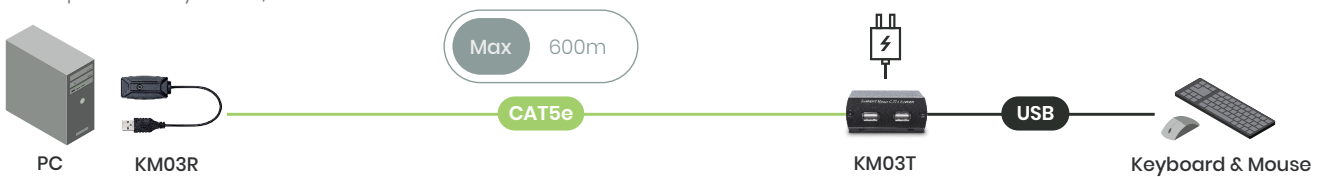
KM03 Keyboard Mouse CAT5e Extender 600m

To extend keyboard and mouse signals over one CAT5e cable.

- Only receiver unit needs power supply
- Transmission distance less than 30m, no power required for both side
- Built-in LED indication
- Compliance: keyboard/mouse



KM03



Extender USB 1.1 CAT5e 300m

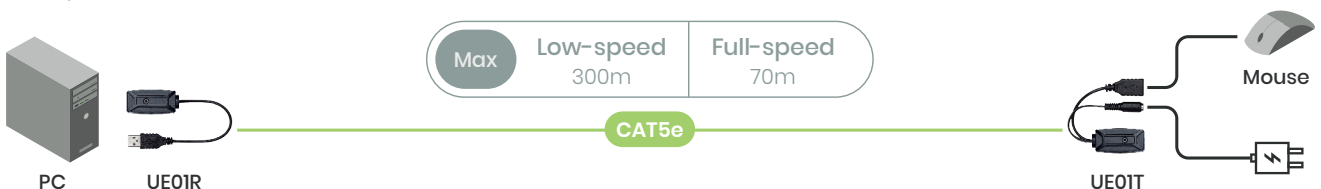
UE01 USB 1.1 Single Port CAT5e Extender 70m

Extend one USB device over CAT5e cable.

- Transmission distance less than 50m, there is power no supply required for both side
- Transmission distance more than 50m, external power adapter is required at transmitter unit
- Compliance: USB 1.1



UE01



Extender USB 2.0 CAT5e 120m

UE02H USB 2.0 4 Port CAT5e Extender 120m



UE02H

To extend 4 USB devices signals over CAT5e cable.

- Receiver built-in 4-port USB hub
- Supports USB 2.0 devices such as: flash drive, hard drive, keyboard, mouse, camera, printer etc
- Plug and play for easy operation
- Compliance: USB 2.0, 1.1, 1.0
- Max. bandwidth: 120Mbps
- Optional model: SR01X signal repeater for longer distance application



Extender USB 2.0 CAT5e 60m

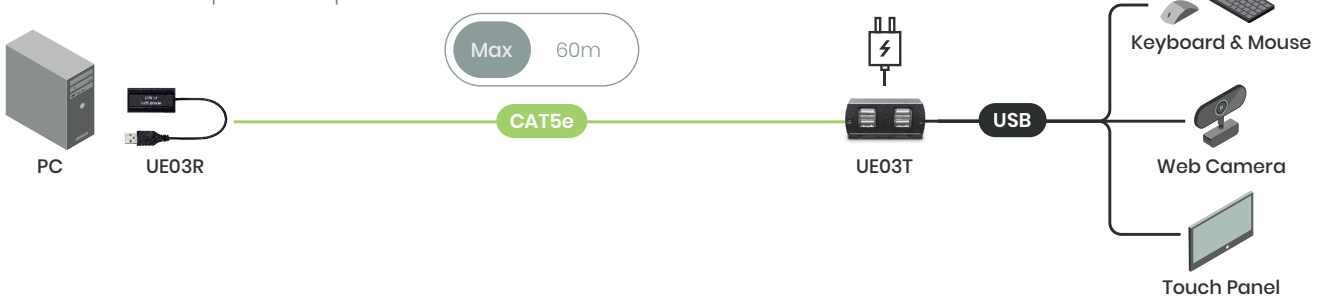
UE03 USB 2.0 4 Port CAT5e Extender 60m



UE03

To extend 4 USB devices signal at Hi-speed (480Mbps) over CAT5e cable.

- Supports USB 2.0 high-speed and USB 1.1 (low-speed, full speed) devices
- Receiver built-in 4 port USB hub
- Supports USB 2.0 devices such as USB camera, printer, scanner, USB Ethernet/VGA/HDMI adapter, mass storage device, keyboard, mouse, etc
- Compliance: USB 2.0, 1.1, 1.0
- Max. bandwidth: up to 480Mbps



Data Converter

Converter Passive RS232 to RS485 1,200m

RS001 RS232 to RS485 Converter



RS001

To convert RS232 signal to RS485 signal

- Support half-duplex transmission
- No external power required
- Support up to 32 units connected together in RS485 multi drop operation
- Baud rate: up to 115200bps
- Max. distance: 1200m
- Connector: DB9 female, 2 wire terminal block



Converter

Passive

USB to RS485

1,200m

RS003 USB to RS485 Converter

To convert USB to RS485 signal interface.

- No external power required
- Support half-duplex transmission
- Support up to 32 units connected together in RS485 multi drop operation
- Baud rate: up to 115200bps
- Connector: USB Type B, 2 wire terminal block
- Compliance: USB2.0



RS003



Converter

RS232/RS422/RS485 to TCP/IP

RS007 RS232/RS422/RS485 to Ethernet (TCP/IP) Converter

To convert RS232/RS422/RS485 signal to Ethernet signal, vice versa.

- Support three operation mode :TCP Server, TCP Client, UDP Mode
- Support Virtual COM Port
- Support full duplex transmission
- Support auto MDI / MDIX
- Built-in LED indication
- Baud rate: up to 1200- 115200bps
- Connector: DB9 female, RJ45, terminal block
- Link speed: 10/100Mbps



RS007



Data Repeater/Extender

Repeater

RS485

1,200m

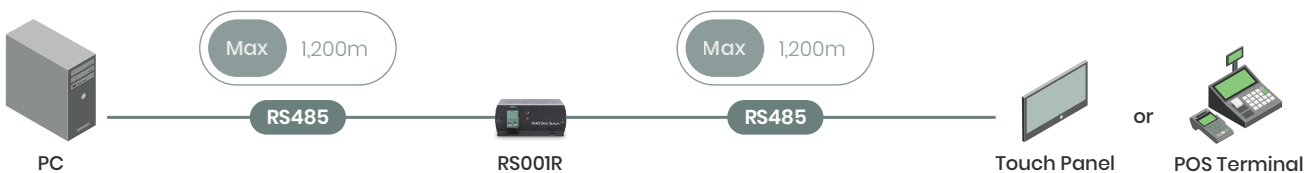
RS001R RS485 Data Repeater

To amplifier and boost RS485 signal for long distance transmission.

- Built-in 2.5KV isolation protection
- Built-in surge protection
- Baud rate: up to 115200bps



RS001R



Extender RS232 CAT5e 2,000m

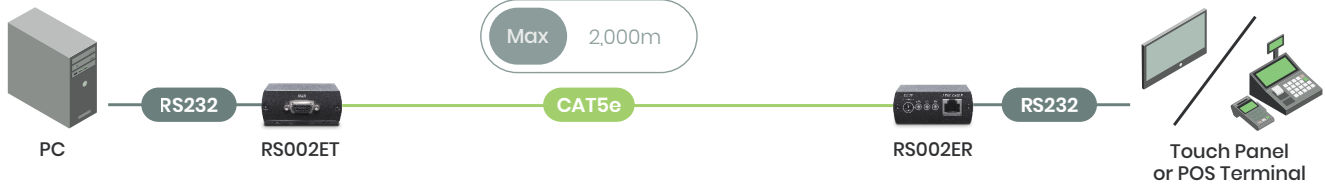
RS002E RS232 Full Duplex CAT5e Extender

To extend RS232 signal over CAT5e cable.

- Compatible with all RS232 protocols
- Full duplex data communication
- Baud rate: up to 115200bps
- Transmission Signal: DCD, RX, TX, DTR, DSR, RTS, CTS, RI



RS002E



Data Distributor

Distributor RS232/RS485 1 to 8 1,200m

RS008 RS485 1 x 8 Distributor in 1U Rack

To distribute RS485 or RS232 signal to 8 x RS485 output.

- Built-in surge protection at each channel
- Each input/output is isolated
- Support cascade connection to other RS008/RS016
- Input port: 1 x RS232, 2 x RS485 (3 input are at "stand by" status at the same time)
- Output port: 8 x RS485
- Max. distance: 1200m



RS008

Distributor RS232/RS485 1 to 16 1,200m

RS016 RS485 1x16 Distributor in 1U Rack

Identical to RS008, but 16 outputs.



RS016

Power Converter & Distributor Box

Converter Power AC to DC 12V 500mA

PC500 AC to DC 12V Power Converter 500mA

- To convert AC power to DC 12V Power with DC plug.
- For DC type camera and CCTV industry installation
 - Input power: AC15~26V; DC15~28V
 - Output Power: DC12V 500mA regulated



PC500

Converter Power AC to DC 12V 2,000mA

PC2A AC to DC 12V Power Converter 2000mA

- Identical to PC500, but with 2000mA output.
- Input power: AC18~26V; DC18~28V
 - Output Power: DC12V 2000mA regulated



PC2A

Distributor Power AC/DC 1 to 9

PD009 AC/DC 1 x 9 Power Distributor Box

- To distribute power to 9 output.
- Each port built-in surge protector and PTC fuse rated 1.1A
 - Individual status LED indicators for each port
 - Input voltage: AC/DC 1-30V



PD009

Power Supply in Rack Panel Mounting/Wall Mounting

Converter Power AC to DC 8A DC 12V

PR801-12R 8A Single Port DC12V Regulated Power Supply in 1U Rack

- To transform AC 120V or 230V to regulated DC 12V output.
- Built-in NFB to avoid current overloading
 - Power input: AC 120V or 230V
 - Power output: Regulated DC 12V 8A (MAX)



PR801-12R

Converter Distributor Power 1 to 16 AC to DC 8A DC 12V

PR816-12R 8A 16 Port DC12V Regulated Power Supply in 1U Rack

- To transform AC 120V or 230V to 16 port of regulated DC 12V 0.5A output.
- Built-in NFB to avoid current overloading
 - Built-in PTC fuse for overcurrent and resettable protection on each port
 - Power input: AC 120V or 230V
 - Power output: Regulated DC 12V 8A (Total), each port 1.1A (MAX)



PR816-12R

Converter Distributor Power 1 to 16 AC to DC 16A DC 12V

PR1616-12R 16A 16 Port DC12V Regulated Power Supply in 1U Rack

- Identical to PR816-12R, but total 16A output.
- Built-in fan at front and back panel each for lowering operating temperature
 - Power input: AC 120V or 230V
 - Power output: Regulated DC 12V 16A (Total), each port 1.1A (MAX)



PR1616-12R

Converter

Distributor

Power

1 to 16

AC to DC

8A

DC 12V

PW816S-12R 8A 16 Port DC12V Regulated Power Supply

To transform AC110V- 240V to 16 port of DC12V output.

- Built-in PTC fuse rated 1.1A for short protection and auto rework on each port
- Built-in toroidal transformer for high efficiency and low operating temperature
- Wall mounting metal box
- Power input: AC 100V- 240V
- Power output: Regulated DC12V 8A (Total), each port 1.1A (MAX)
- Dimension: 224 x 200 x 60 mm



PW816S-12R

Power Adapter

SWP051000

DC 5V 1A Switching Power Adapter



Power input: AC 90V- 240V
Power output: Regulated DC5V 1A

SWP052000

DC 5V 2A Switching Power Adapter



Power input: AC 90V- 240V
Power output: Regulated DC5V 2A

SWP12500

DC 12V 0.5A Switching Power Adapter



Power input: AC 90V- 240V
Power output: Regulated DC12V 0.5A

SWP121000

DC 12V 1A Switching Power Adapter



Power input: AC 90V- 240V
Power output: Regulated DC12V 1A

SWP121500

DC 12V 1.5A Switching Power Adapter



Power input: AC 90V- 240V
Power output: Regulated DC12V 1.5A

SWP124200

DC 12V 4.2A Switching Power Adapter



Desktop type.
Power input: AC 90V- 240V
Power output: Regulated DC12V 4.2A

SWP241250

DC 24V 1.25A Switching Power Adapter



Power input: AC 90V- 240V
Power output: Regulated DC24V 1.25A

SWP481360

DC 48V 1.36A Switching Power Adapter



Desktop type.
Power input: AC 90V- 240V
Power output: Regulated DC 48V 1.36A

SWP562100

DC 56V 2.1A Switching Power Adapter



Desktop type.
Power input: AC 90V- 240V
Power output: Regulated DC 56V 2.1A

Power Surge Protector

Surge Protector

Power

AC 110V

SP001P-AC110 AC Power Surge Protector

To provide surge protection for a AC100-120V device.

- Connector: 2 pin screw terminal to 3 pin screw terminal.
- Response time: < 1ns Max discharge current: 6kA (8x20uS)
- Max load current: 8A (Max) Breakdown voltage: 6kV (1.2uS x 50uS)



SP001P-AC110

Surge Protector

Power

AC 2200V

SP001P-AC220 AC Power Surge Protection

To provide surge protection for a AC220-240V.

- Connector: 2 pin screw terminal to 3 pin screw terminal.
- Response time: < 1ns Max discharge current: 6kA (8x20uS)
- Max load current: 4A (Max) Breakdown voltage: 6kV (1.2uS x 50uS)



SP001P-AC220

Cable

BNC

WC414

4 BNC Male to 4 BNC Male Cable 100cm



WC414-200

4 BNC Male to 4 BNC Male Cable 200cm



WC111-30

BNC Male to BNC Male RG59 Cable 30cm



WC101-30

BNC Male to BNC Female RG59 Cable 30cm



Tool

AT002 Remote Cable Tester

- Connector: RJ45, USB, BNC (for CAT5e/CATV/Cable MODEM)
- Connected/25 ohms terminator
- No-Parallel /50 ohms terminator
- No connection / No termination
- Battery good / Battery low
- S, C/1,2,3,4,5,6,7,8, LEDS



AT002

AT005 Modular Crimping Tool

- For 4,6,8 poles modular connector (RJ45, RJ22) ratchet type
- This tool is for all necessary tools to cut, strip and crimp modular telephone wires



AT005

AT006 Multi-Function Wire Stripper

- The lightweight, compact stripper is simple to operate, provided multifunction and safety
- Application for stripping coaxial cable and UTP/STP cable



AT006

AT007 Splice & Crimp Tool for AP007 UY Connectors

- Designed to seat UG, UR and UY connectors
- A special stop behind cutout prevents damage to connectors



AT007

AT008 Coaxial Crimping Tool

- Application for crimping RG59, RG6U cable



AT008

Parts

AP001 Modular RJ45 Plug (3 Prongs)

- 8 position 8 contact round solid
- Package include: 100 pcs/bag



AP001

AP002 RJ45 Protection Cap

- Provide 5 colors (red, green, yellow, blue, grey) for easy identification
- Package include: 100pcs/bag (20pcs of each color)



AP002

AP007 UY2 Connector

- Self-stripping, insulated and moisture resistant butt connector for 2 wire solid copper conductor
- Handle 19 to 26AWG solid copper wire
- Insulation O.D. of 0.082 inches (2.08mm)
- Package include: 100pcs/box



AP007

AP008 DC Plug to Terminal Block

- DC plug (male) to removable terminal block
- Small size for tight spaces
- DC plug: $\varnothing 2.1\text{mm} \times 5.5\text{mm}$
- Package include: 10pcs/bag



AP008

AP008-F DC Jack to Terminal Block

- DC jack (female) to removable terminal block
- Small size for tight spaces
- DC pjack: $\varnothing 2.1\text{mm} \times 5.5\text{mm}$
- Package include: 10pcs/bag



AP008-F

AP009 DC Plug to Strip End

- DC plug (male) to strip end
- DC plug: $\varnothing 2.1\text{mm} \times 5.5\text{mm}$
- Power cord: 150mm
- Package include: 10pcs/bag



AP009













AP009-F DC Jack to Strip End

- DC jack (female) to strip end
- DC jack: $\varnothing 2.1\text{mm} \times 5.5\text{mm}$
- Power cord: 150mm
- Package include: 10pcs/bag.



AP009-F

Connectors (Package: 100pcs/bag)

<p>APBC01</p> <ul style="list-style-type: none"> • HD-SDI/BNC • Compression • Waterproof • (RG59/RG6U) 	<p>APBT11</p> <ul style="list-style-type: none"> • BNC Male • Twisted On • (RG59/RG6U) 	<p>APBC13</p> <ul style="list-style-type: none"> • BNC Male • Crimp • (RG58/RG59/RG6U/RS174) 	<p>APBC13-SDI</p> <ul style="list-style-type: none"> • HD-SDI BNC • Male Crimp • (RG59/RG6U) 	<p>APB012</p> <ul style="list-style-type: none"> • HD-SDI/BNC • Compression • Waterproof • (RG59/RG6U) 
<p>APBC12</p> <ul style="list-style-type: none"> • BNC Male • Quick Crimp • (RG59/RG6U) 	<p>APB310</p> <ul style="list-style-type: none"> • BNC Male To • T Adapter • BNC Female 	<p>APBR01</p> <ul style="list-style-type: none"> • BNC Female To • RCA Male 	<p>APBR10</p> <ul style="list-style-type: none"> • BNC Male To • RCA Female 	<p>APFT11</p> <ul style="list-style-type: none"> • F Male Twist On • (RG59/RG6U) 
<p>APFC12</p> <ul style="list-style-type: none"> • F Male Crimp • Two Pieces Type • (RG59/RG6U) 	<p>APBF10</p> <ul style="list-style-type: none"> • BNC Plug To • F Jack 	<p>APBB00</p> <ul style="list-style-type: none"> • BNC Female To • BNC Female 	<p>APRF10</p> <ul style="list-style-type: none"> • RCA Male to • F Female 	

Index

Item No.	Page	Item No.	Page	Item No.	Page	Item No.	Page
AA002	52	CD102HD	4	HE02EI	31	IP01P	18
AA003PJA	52	CD104HD	5	HE02EIXP	32	IP04R	16
AC01	53	CD108HD	5	HE02EX	32	IP05IE	19
AD001H	10	CD408HD	5	HE02EXP	33	IP05SE	19
AD001HD1	10	CD816HD	5	HE02U-4K6G	30	IP08H	19
AD001HD4	9	CD1632A	6	HE03	33	IP09	14
AD001HD4-4K	8	CD1632HD	5	HE03-4K	34	IP09C	15
AD001HDE	10	CD1664HD	6	HE03-4K6G	34	IP09CP	18
AE02	52	CE01TV	51	HE03LR-4K	35	IP09CPHK	18
AE02GL	53	COV-101	54	HE04SEK	39	IP09P	16
AP001	63	DE01ERK	47	HE05C	37	IP09PHK	17
AP002	63	DE02E	47	HKM01-4K	35	IP16H	19
AP007	63	DKM01	47	HKM01-4K6G	36	IP16H	19
AP008	63	DP01F-4K6G	46	HKM01E	35	IP24H	19
AP008-F	63	DP02E	46	HKM02BPR-4K6G	27	IP24H	19
AP009	63	DP02U	45	HKM02BPT-4K6G	27	IR104K1	54
AP009-F	63	DP02U-4K6G	45	HKM02BR	27	IRC-3060S21	54
APB012	64	GB001	11	HKM02BR-4K6G	27	IRE-30601C30	54
APB310	64	GL001	11	HKM02BR-4K6G	27	KM03	55
APBB00	64	GL001H	11	HKM02BT	27	PC2A	59
APBC01	64	GL001HDP	11	HKM02BT-4K6G	27	PC500	59
APBC12	64	GL001HP-1A	11	HKM02BT-4K6G	27	PD009	59
APBC13	64	HAE01	38	HKM41E	40	PR801-12R	59
APBC13-SDI	64	HAE01	44	HKM41-4K6G	40	PR816-12R	28
APBF10	64	HD02-4K	38	HM41E	41	PR816-12R	59
APBR01	64	HD04-4K6G	39	HM44	42	PR1616-12R	59
APBR10	64	HD10-4K6G	39	HR01-4K6G	44	PW816S-12R	60
APBT11	64	HD401F4-5M	7	HS04-4K6G	41	RPT-104-1	54
APFC12	64	HD401F-5M	6	HS04M-4K6G	42	RPT-104-7	54
APFT11	64	HD401F8-5M	7	HS10M-4K6G	43	RS001	56
APRF10	64	HE01C	37	HS42M-4K6G	41	RS001R	57
AT002	62	HE01ERK	29	IEC-0001E-05	54	RS002E	58
AT005	62	HE01F-4K	36	IEC-0001F-05	54	RS003	57
AT006	62	HE01F-4K6G	36	IEC-3501E-05	54	RS007	57
AT007	62	HE01F-4K6G-KS	36	IEC-3501F-05	54	RS008	58
AT008	62	HE01F-4K6G-KM	37	IEC-3502E-05	54	RS016	58
CA101HD	6	HE01S	29	IEC-3502F-05	54	SDI01	24
CB001VH	11	HE01SE	29	IP01	15	SDI01E-12G	24
CD102A	4	HE02E	31	IP01F	15	SDI01F-12G	24

Index

Item No.	Page	Item No.	Page
SDI02	25	TTP111HD	1
SDI02E-12G	25	TTP111HDL	1
SP001P	12	TTP111HDLK	1
SP001P	12	TTP111HDPD-RJ45-K	2
SP001P-AC110	61	TTP111HDPK	2
SP001P-AC220	61	TTP111HDP-LK	2
SP004	12	TTP111V	1
SP006	20	TTP414HD	3
SP006H	20	UE01	55
SP006H	33	UE02H	56
SP006P	21	UE03	56
SP006PH	21	UE03H	55
SP006PH-10G	21	VC01	50
SP006PHO	22	VDKM02BR	27
SP007	25	VDKM02BT	27
SP008	44	VE01H	48
SP009	12	VE01HA	48
SP009P	23	VE01P	48
SP009T	12	VE02	50
SP016HD	13	VH01E	50
SP016P	22	VHE02EIP	31
SR01X	14	VKM02	49
SWP12500	60	VKM04	49
SWP051000	60	WC101-30	62
SWP052000	60	WC111-30	62
SWP121000	60	WC414	62
SWP121500	60	WC414-200	62
SWP124200	60		
SWP241250	60		
SWP481360	60		
SWP562100	60		
TGP001H	11		
TPN002BT	27		
TPN002I-190	27		
TPN003BT	27		
TPN008	4		
TPP016HD	3		
TTA111HDR	4		
TTA111HDT	3		

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