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Smart twisted pair transmission products are designed for CCTV signal transmission over unshielded twisted pair wire (CAT5 network cable).

Passive Series

Passive Video Transceiver (no power required), transmission range color 300 meters via CAT5 UTP Cable.

Single Channel

TTP111VE

Mini Video Transceiver

- BNC male to screw terminal for easy connection.
- **Blister Card Package 10pcs in one blister card**



TTP111VEL

Mini Video Transceiver with 10cm Mini Coax Cable

- **Identical to TTP111VE, but with 10cm mini coax cable for easy mounting behind DVR.**



TTP111V

Video Transceiver BNC Male to RJ45 Female

- BNC male to RJ45 female.



TTP111VT

Video Transceiver BNC Male to Terminal Block

- BNC male to 2 pin terminal Block.
- ***TTP111VF Video Transceiver F Male to Terminal Block**



TTP111VTS

Video Transceiver Built in Surge Protector

- **Identical to TTP111VT, built in surge protection.**



TTP111VCT

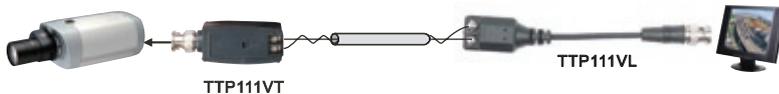
Video Transceiver with 18cm Retractable Cord

- Weatherproof IP65.
- Perfect for camera with pan-tilt turning device.

TTP111VL

Video Transceiver with 25cm Mini Coax Cable

- Weatherproof IP65.
- **Compact size and pigtail could be mounted multi units behind DVR.**



TTP111VLH

Video Transceiver with Extra Interference Rejection

- Identical to TTP111VL, but 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...
- **Perfect work with DVR to immunity DVR interference.**



TTP111VP

Video & Power Transceiver (2 Pairs Version)

- BNC Male to RJ45 Female with Power Cord
- Use with TTP111VPJ, transmit video & power over one CAT5 cable. (range 50 meters).
- Use with TDP414VP for power transmission 4 cameras from remote site.



TTP111VP3

Video & Power Transceiver (3 Pairs Version)

- Identical to TTP111VP, but remote power go through via "3 pairs" instead of "2 pairs" for longer range.
- For AC24V camera use, the power sources from TPP016VPD hub for professional CCTV industry installation. (Please Ref. to page 10)



TTP111VPC

Video & Power Transceiver Built in AC to DC12V Power Converter

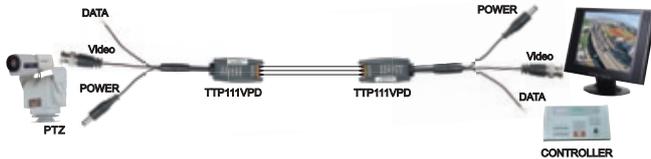
- Built in AC to DC12V regulated power converter, 1000mA max.
- Built in switch to set unit for "2 pair power through" or "3 pairs power through" mode for variety range.
- For DC12V camera use, the power sources from TPP016VPD hub (AC24V) for professional CCTV industry installation. (Please Ref. to page 10)



TTP111VPD

Video, Power, Data Transceiver (Terminal Termination)

- Male BNC with DC Plug+2 pin pigtail to 6 "push pin" terminal.
- Video, low voltage camera power, Data (RS485) transmission over one CAT5 cable.



TTP111VPD-RJ45

Video, Power, Data Transceiver (RJ45 Termination)

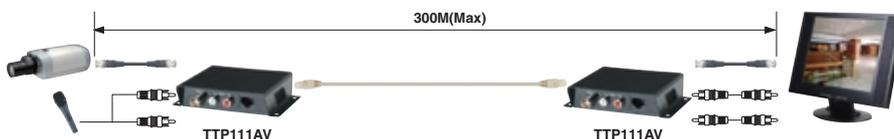
- Identical to TTP111VPD, but with RJ45 connector instead of push pin terminal.
- Use with TDP016 + TPP016-RJ45 for 16 channel video, power, data for a neat and professional CAT5 cabling solution. (Ref. to page 10).



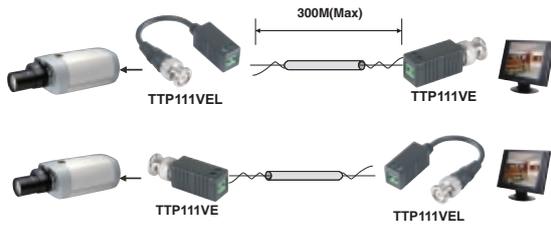
TTP111AV

Video & Audio Transceiver

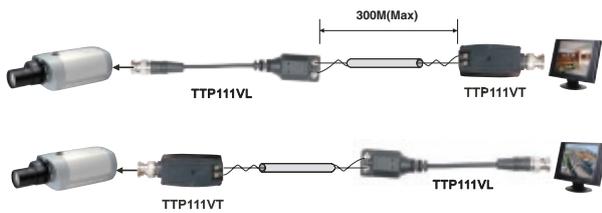
- BNC female +2 RCA female to RJ45 female.
- Video and stereo audio transmission over one CAT5 cable.
- Passive, No power required.



TTP111VELK (TTP111VE+TTP111VEL) DIY KIT

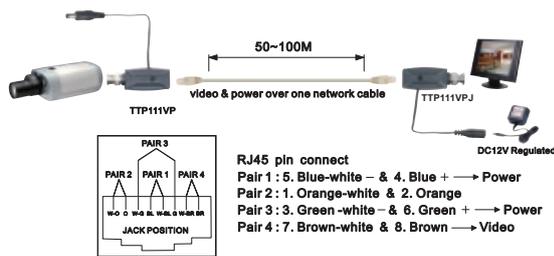


TTP111VK (TTP111VT + TTP111VL) DIY KIT



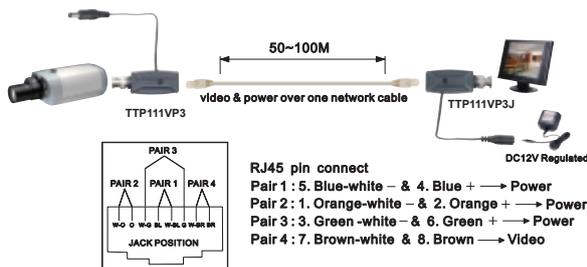
TTP111VPK (TTP111VP + TTP111VPJ) DIY KIT

- Video & Power (2 pairs) Transmission over one CAT5 cable.



TTP111VP3K (TTP111VP3+TTP111VP3J) DIY KIT

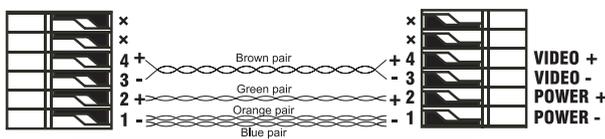
- Video & Power (3 pairs) Transmission over one CAT5 cable.



TTP111VPK-T (TTP111VP-T + TTP111VPJ-T) Professional KIT

- Power cable could be one, two, or three pairs option based on camera power consumption and transmission range.

TTP111VP-T BNC male + power DC plug to 6 pin terminal
 TTP111VPJ-T BNC male + power DC jack to 6 pin terminal



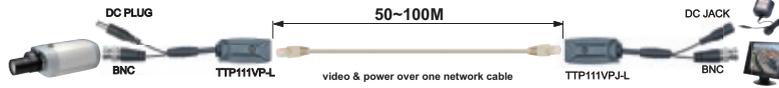
Note: The Blue pair can be split and used to supplement the conductors on terminals 1 to extend the power transmission distance.



TTP111VP-LK

(TTP111VP-L + TTP111VPJ-L) with Pigtail Version KIT

- Video & Power Transmission over one CAT5 cable with pigtail version for easy mounting and installation.



TTP111VPD-RJ45-K

(TTP111VPD-RJ45+ TTP111VPDJ-RJ45) DIY KIT

- Video, power, data combiner.
- Video, low voltage camera power, data (RS485) transmission over one CAT5 cable.



4 Channel

TTP414V

4 Channel Video Transceiver

- Choice of RJ45 or push pin terminal inputs/outputs.



TTP414VD

4 Channel Video Transceiver with Data

- Using 4 pairs CAT5 cable to transmit/receive 3 sets of video signals plus 1 data signal or transmit/receive 4 sets of video signals only.



TTP414VH

4 Channel Video Transceiver with Extra Interference Rejection

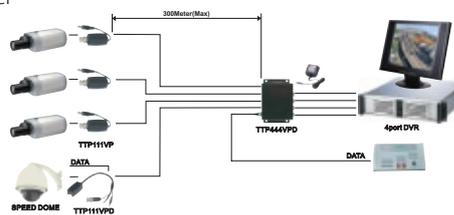
- Perfect work with DVR to immunity DVR interference.
- Built in a highly balanced mode of video transmission, which is immune to interference from these, and other sources of noise: Data signals, other video signals, nearby power, ringing telephones, fluorescent lights, transformers, and more...



TTP444VPD

4 Channel Video, Power, Data Transceiver

- Video, camera power, Data (RS485) transmission over one CAT5 cable.
- Built in PTC fuse for short protection.
- Use with TTP111VPD to send 4 channels video, power, data over four CAT5 cable.

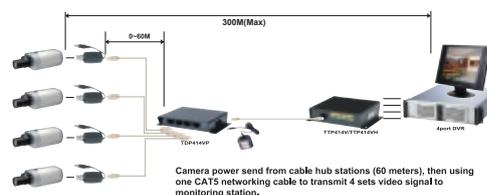


4CH Video, Power, Data UTP Hub

TDP414VP

4 RJ45 Female to 1 RJ45 Female Cable Hub with Power

- Use with TTP111VP to transmit power for camera use from remote site 50 meters.
- Built in PTC (positive temperature coefficient) fuse 1.1Amp for short protection.
- DC12V 1.2Amp power supply included.



Option Model: TDP414VP-N 4 RJ45 Female to 1 RJ45 Female Cable Hub package without power supply.

Multi-Channel Panel and Rack Mounting

TPP016

16 Port Passive Video Transceiver Hub in 1U Rack Mounting Panel

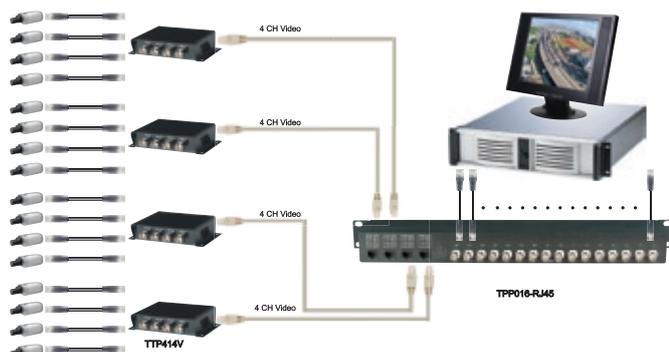
- As a rack mounting passive transmitter hub, use with active receiver at distance up to 1000 meters.
- Built in a highly balanced mode of video transmission for extra interference immunity.



TPP016-RJ45

16 Port Passive Video Transceiver Hub in 1U Rack Mounting Panel

- Identical to TPP016, but using RJ45 termination instead of terminal block.
- Use with TTP414V or use with TTP111VPD-RJ45+TDP016 for a neat and professional CAT5 cabling solution.



TPP016D

16 Port Passive Video & Data Transceiver Hub in 1U Rack Mounting Panel

- Identical to TPP016, but with data Transmission.
- 1 x RS485 data input to 16 x RS485 output.



TPP016GB

16 Port Passive Video Transceiver Hub Built in Ground Loop Isolator

- Identical to TPP016, built in high performance ground loop isolator (GL001H) at each channel.
- Prevents video-signal distortion caused by video ground loops.
- Eliminates picture tearing, cross talk and rolling.
- Prevents power cables laid by others interfering with the CCTV system.



CCTV Twisted Pair Transmission

Active Series

Active Video Transceiver (power required), transmission range color 2000 meters via CAT5 UTP Cable.

960H Camera over UTP Cable

TTA111VEA-960H

960H over UTP Cable Transmission 1.2KM

TTP111VE Transmitter, TTA111VHA-960H Receiver

- To send 960H camera video signal over twisted pair cable.
- Eliminate the coaxial coax.
- Package include: TTP111VE Passive Video Transmitter + TTA111VHA Digital Auto Gain Active Receiver with power adapter.
- TTP111VE is passive type, no power required.
- TTP111VE compact size for easy installation at camera side.
- TTA111VHA-960H design for 960H video auto gain receiver built in two mode auto gain control.
- TTA111VHA-960H auto gain receiver built in transient protection and grounding lifting.



TTA111AV

Active Video & Audio & Data Twisted Pair Transmission

TTA111AVT Transmitter, TTA111AVR Receiver

- Transmit video, audio and data signal (RS422, RS485).
- Three position range switch for gain select on transmitter.
- Five position distance range switch on receiver, brightness adjustment, two video output.
- Built in transient protection and ground lifting.



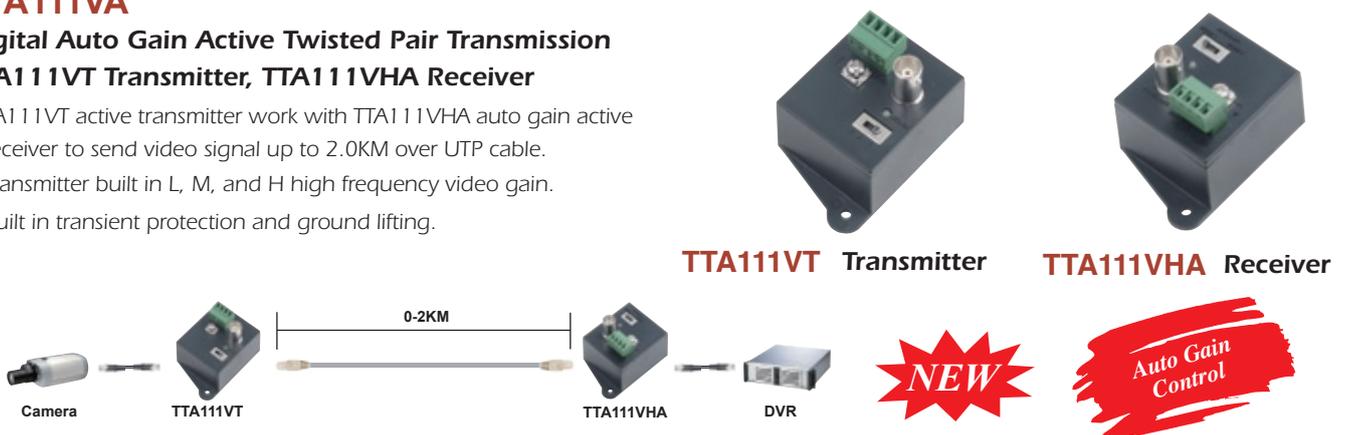
Single Channel

TTA111VA

Digital Auto Gain Active Twisted Pair Transmission

TTA111VT Transmitter, TTA111VHA Receiver

- TTA111VT active transmitter work with TTA111VHA auto gain active receiver to send video signal up to 2.0KM over UTP cable.
- Transmitter built in L, M, and H high frequency video gain.
- Built in transient protection and ground lifting.

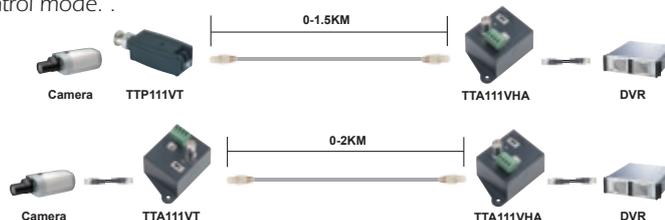


CCTV Twisted Pair Transmission

TTA111VHA

Digital Auto Gain Active Receiver

- Use with passive transmitter to send video signal up to 1.5KM over UTP cable.
- Use with active transmitter TTA111VT to send video signal up to 2.0KM over UTP cable.
- Built in slide switch for two auto gain control mode.
- Built in transient protection and grounding lifting.



TTA111VRA

Digital Auto Gain Active Receiver with Manual Adjustment

- Dual control option for optimum video quality: Auto gain or manual adjustment.
- Auto gain control without any adjustment.
- Manual control: equalizer and brightness adjustment.
- Use with passive transmitter for distance up to 1.5KM.
- Use with active transmitter for distance up to 2KM.
- Built in transient protection and grounding lifting.



TTA111VH

Active Receiver with Extra Interference Rejection

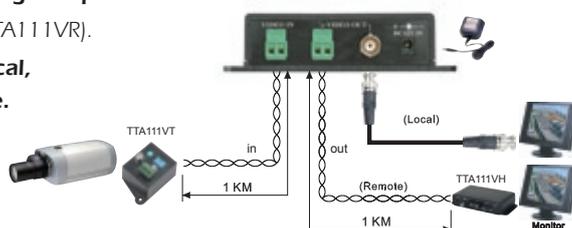
- Built in a highly balanced mode of video transmission for extra interference immunity.
- HF, MF, LF compensation for color gain and adjustable brightness & contrast for cleaner, sharper looking picture.
- Built in input impedance, balance, liner gain adjustment.
- Built in surge protection.
- Perfect to maintain good quality picture for long-range transmission with DVR.
- Using two sets of TTA111VT+TTA111VH for series connection, range up to 2.4Km(Color), 3Km(B/W).



TDA102

Twisted Pair Repeater, 1 Input to 2 Output Video Distributor

- As a UTP repeater, to repeat UTP signal up to 1Km.
- Built in twisted pair active receiver (TTA111VR).
- Dual output: 1 BNC output for local, plus 1 UTP output for remote side.



4 Channel

TTA414VRA

Digital Auto Gain 4 Channel Active Receiver

- Identical to TTA111VRA, 4 port active receivers.
- Dual control option for optimum video quality: Auto gain or manual adjustment.
- Auto gain control without any adjustment.
- Manual control: equalizer and brightness adjustment.
- Built in a highly balanced mode of video transmission for extra interference immunity.



CCTV Twisted Pair Transmission

Multi-Channel Panel

TPA008A

Digital Auto Gain 8 Port Active Receiver Hub in 1U Rack Mounting Panel

- Built in 8 port auto gain receivers in 1U 19" rack mounting panel.
- Auto gain control without any adjustment.
- Use with passive transmitter for distance up to 1.5KM.
- Use with active transmitter for distance up to 2.0KM.
- Built in transient protection.
- This device auto gain operation by factory default. For any abnormal picture occurred, it could be using RS485 terminal or IR remote control for advanced management setup and control.
- Built in RS485 terminal for advanced management setup and control. It could be daisy chain up to 32pcs of TPA008A by any one option remote/PC/mobile phone control.
- It could be control by mobile phone with using option model RS006: RS45 to Ethernet.
- Option model: RS003: USB to RS485 converter, RS001: RS232 to RS485 converter, RS005: RS232 to 9 Ethernet converter, IR01: IR remote control

• **Option model:**

- 1) IR01 (IR remote control): using IR control for advanced function setting.
- 2) RS003 (USB to RS485 converter), RS001 (RS232 to RS485 converter): using PC for advanced function setting.
- 3) RS006 (RS485 to Ethernet converter): using internet via PC/or mobile phone for advanced function setting.



TPA008AH

Digital Auto Gain 8 Port Active Receiver Distribution Amplifier in 1U Rack Mounting Panel

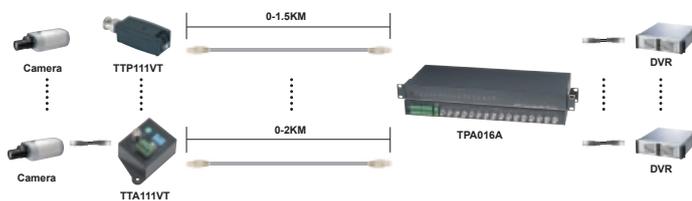
- Identical to TPA008A, 8 inputs (UTP screw-terminal) to 16 outputs (BNC).
- Built in surge protection, perfect to work with DVR.



TPA016A

Digital Auto Gain 16 Port Active Receiver Hub in 1U Rack Mounting Panel

- Identical to TPA008A, built in 16 port auto gain receivers in 1U 19" rack mounting panel.



TPA016AH

Digital Auto Gain 16 Port Active Receiver Distribution Amplifier in 1U Rack Mounting Panel

- Identical to TPA008AH, 16 inputs (UTP screw-terminal) to 32 outputs (BNC).

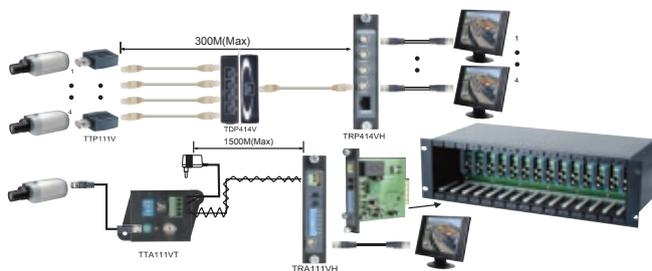


Rack Mounting

TRN012

3U 19" Rack Mounting Cabinet Built in Power Adapter

- Standard 19" 3U rack mounting cabinet built in 3Amp switching power supply.
- 15 insert lots for TRP414VH, TRA111VH receiver rack card.
- Ground connecting for protection monitoring equipment.
- Ideal for large security monitoring stations or video distributions hubs.



TRP414VH

19" Rack Card 4 Channel Passive Receiver

- 1 RJ45 input and 4 video BNC outputs.
- Built in a highly balanced mode of video transmission for extra interference immunity, perfect work with DVR to immunity DVR interference.
- Use with TRN012, to insert up to 15 pieces TRP414VH for 60 channel passive video transmission.



TRA111VH

19" Rack Card 1 Channel Active Receiver

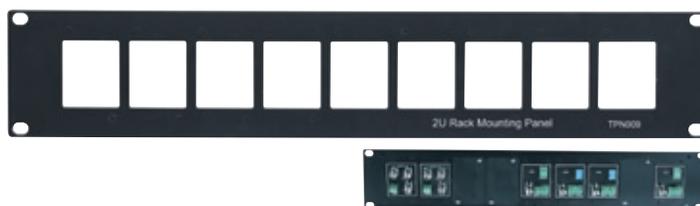
- Built in a highly balanced mode of video transmission for extra interference immunity.
- HF, MF, LF compensation for color gain and adjustable brightness & contract for cleaner, sharper looking picture.
- Built in surge protection.
- Perfect to maintain good quality picture for long-range transmission with DVR.
- Use with TRN012, to insert up to 15 pieces TRA111VH for 15 channel active video receive.



TPN009

19" 2U Rack Mounting Panel

- Standard 19-inch (482mm) wide, 3.5-inch (88mm) 2U high.
- Support up to 9 pieces of TTA111VR/VHA/VRA or CD102.



Application: CD102 or TTA111VHA, TTA111VRA

TPN012-C

19" Universal Rack Mounting Panel with 4 Pieces Holder

- 4 pieces holder for plastic case (to fit TTP414VD, TTP414VH, TTA111VH,
- Standard 19-inch (482mm) wide, could supports up to 12 pieces holder.



Application: TTA111VH, CA404, CD104....

TPN012C

4 Pieces Holder in One Bag for TPN012-C

TPN012-T

19" Universal Rack Mounting Panel with 4 Pieces Holder

- 4 pieces holder for Metal case (to fit, TTP111AV, TTP414V, TTP444V, TTA111AVR)
- Standard 19-inch (482mm) wide, could supports up to 12 pieces holder.



Application: TTP414V, TTP111AV, TTA111AVR....

TPN012T

4 Pieces Holder in One Bag for TPN012-T

CCTV Twisted Pair Transmission

Video & AC24V Power Hub

TPP016VPD

16 Port Passive Video, Power, Data UTP Hub with AC Power Adapter in 1U Rack Mounting Hub

- TPP016VPD UTP hub integrate and send video, power, data over one CAT5 cable up to 300 meters.
- Built in switch at each port to set unit for "2 pair power + 1 pair data" mode or "3 pairs power" mode.
- Use with video power transceiver TTP111VP/TTP111VP3 (AC24V camera), TTP111VPC (DC12V camera) at camera side, to send video and power only.
- Use with TTP111VPD-RJ45 video, power, data combiner at the camera side, to send video, power and data.
- 10A AC24V power, each port output current up to 1.1Amp for camera, max up to 10Amp.
- Built in "no fuse breaker" to avoid current overload.
- Built in PTC (positive temperature coefficient) for short protection and auto rework on each port.

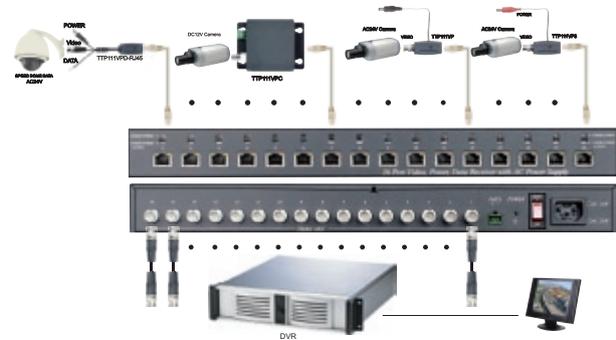
Option Model:

TTP111VP Video & Power Transceiver for AC24V Camera (2 pairs)

TTP111VP3 Video & Power Transceiver for AC24V Camera (3 pairs)

TTP111VPC Video & Power Transceiver for DC12V Camera

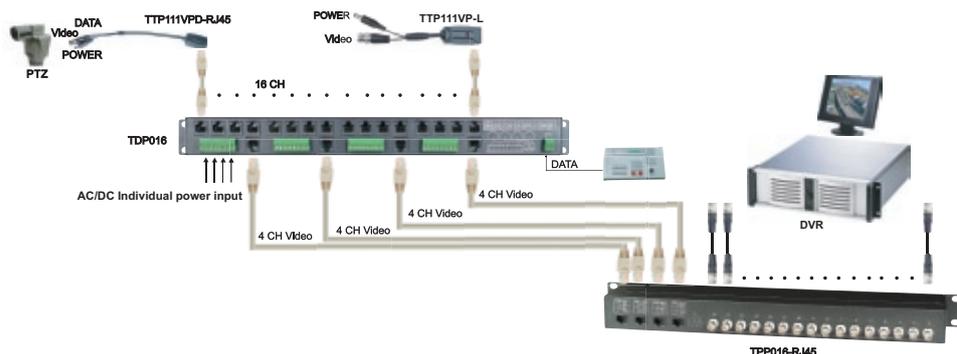
TTP111VPD-RJ45 Video, Power, Data Transceiver



TDP016

16 Port Cable Integrator (Video, Power, Data) in 1U Rack Mounting Panel

- 16 cameras cable termination panel, use for integrating power, video and data signals.
- Built in surge protection on data.
- Use any third-party power supply to power cameras via UTP cable (PR816, PR816-12D, refer to page 64).
- Built in PTC (positive temperature coefficient) fuse 1.1Amp for short protection.
- Use with TTP111VPD-RJ45 video, power, data transceiver at the camera side.
- Use with TPP016-RJ45 as video transceiver receiver at control room.



Video & DC12V Power Hub

TTP111VPDC

Video, Power, Data Transmitter Built in DC12V Power Regulator

- Built in RS485 terminal for data transmission.
- Built in power detection with power output DC12V regulated 1.5A at 300 meters.
- Built in fan for low operating temperature.
- Transmission distance up to 300 meters.
- Built in ESD and surge protection.
- For DC12V camera use, the power sources from remote UTP receiver: TTA111VPDR, TTA414VPDR for professional CCTV industry installation.

For DC12V High Power Camera



TTA111VPDR

1 Port Video, Power, Data Receiver with DC High Power Adapter

- Use with TTP111VPDC video, power, data transmitter at camera side to send video and power, data from remote side over one UTP CAT5 cable..
- Provide high power to remote camera DC12V/25W (Max.)
- Power input: AC100-AC240V.
- Transmission range up to 300 meters.
- Built in ESD and surge protection.



Support DC12V 1.5A



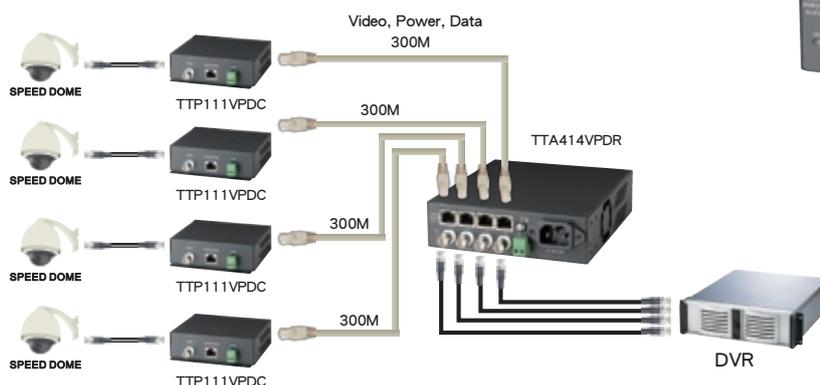
TTA414VPDR

4 Port Video, Power, Data Receiver with DC High Power Adapter

- Identical to TTA111VPDR, but with 4 Port Video, Power, Data receiver hub.
- Provide high power to 4 remote cameras DC12V/100W (Max.)
- Built in fan for low operating temperature.
- Rack mounted with TPN002 panel.



Support DC12V 1.5A



TPN002

1U 19" Rack Mounting Panel for TTA414VPDR

- Supports 2 pieces of TTA414VPDR.
- Standard 19-inch (482mm) wide, 3.5-inch (88mm) 1U high.



IP Cabling Transmission

IP Extender over Coax/CAT5 , LAN Repeater

IP01

IP Extender over Coax 200M- Passive Type

- Send IP camera signal over existing coaxial cable.
- Passive type, no power required.
- 802.3 10BaseT specification, isolating the receiver from the transmitted signal.
- Transmission up to 200 meters (Max).



IP01H

Ethernet Switch with 4 Port 10Base-T+ 1 Port 10/100Base-T

- 5 Port Ethernet Switch with 4 port BNC and 1 port RJ45.
- RJ45 terminal support 10/100Mbps auto detect function
- BNC terminal support 10Mbps, must work with IP01 .
- LED indication: Link/Active, Power.
- Complies with standard IEEE802.3 and IEEE802.3u.
- Auto MDI/MDI-X auto cross at RJ45 terminal.



IP01K

4 x IP01 IP Extender + 1 x IP01H 5 Port Ethernet Switch Kit Package

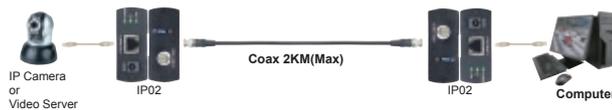
- **Package include: 4 pieces x IP01, 1 pcs x IP01H with power adapter.**



IP02

Extra Long Range IP Extender over Coax 2KM

- Send and extend IP camera signal or any TCP/IP devices over existing coaxial cable.
- Active type, including transmitter and receiver.
- Plug and play for easy connection
- Long range transmission up to 2000 meters (Max.)



IP02E

Hybrid IP & Analog Extender over Coax 500M

- Extend IP camera signal or any TCP/IP devices over existing coaxial cable.
- **Send 1 port analog video signal and 1 port IP video signal over same one coaxial cable.**
- **Long range transmission up to 500 meters (Max.)**
- Support 10/100BASE-T transmission rate.
- Perfect to upgrade the analog camera system into IP CCTV application.



IP02EP

IP Extender with Power over Coax 500M (POC)

- Extend IP camera signal and power together over existing coaxial cable.
- **Provide power to IP camera DC5V or DC12V. (power over coax)**
- **Long range transmission up to 500 meters (Max.)**
- Support 10/100BASE-T transmission rate.
- Perfect to upgrade the analog camera system into IP CCTV application.



IP07M

Chainable IP Extender with Power over Coax/Two Wire

- Extend IP camera signal with power over existing coaxial cable or any two wire cable.
- Provide IP camera power up to DC12V 1Amp.
- Support chainable/ series/star connection up to 4 units of IP07M.
- Long range transmission up to 500 meters (Max.)
- Support 10/100BASE-T transmission rate.
- Perfect to upgrade the analog camera system into IP CCTV application.
- **IP07M Power Source Option Model:**
 DC48V 40W power adapter: SWP480830R
 DC56V 70W power adapter: SWP551260



IP03

Extra Long Range IP Extender over CAT5 1.2KM

- Identical to IP02, but over CAT5 cable instead of coaxial cable.
- Support 10/100 BASE-T transmission rate.
- Long range transmission up to 1200 meters (Max.)



SR01

LAN Repeater

- Extender IP signal and repeater range up to 120 meters.
- A long range extension could be done by using multiple repeaters.
- Support 10/100/1000 BASE-T transmission rate.
- External power required.

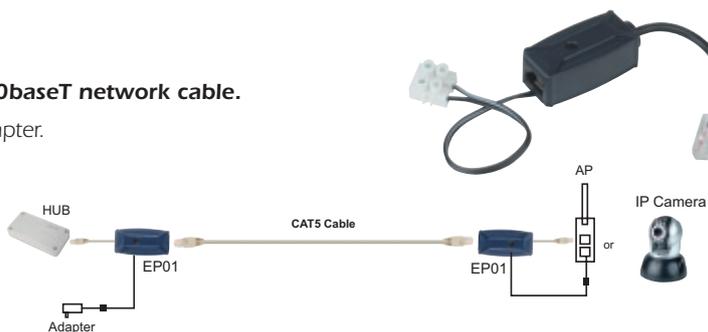


PoE Extender over Coax/CAT5, PoE Repeater

EP01

Easy PoE – Passive

- Send power to remote over unused pairs of 100baseT network cable.
- Including 2 units/one pair, do not include power adapter.
- Working distance depends on the power supply, cable type, and powered device.



IP01P

PoE Extender over Coax – Passive Type

- Extend IP/PoE camera over coax cable.
- Connects IP/PoE camera to 10/100 BaseT PoE injector/Switch over one coax cable.
- Support PoE: 10Mbps at 7W 500M, 10Mbps at 14W 300M, 100Mbps 15W 100M
- Support 10/100 Mbps transmission rate, compatible IEEE 802.3af PoE standard.
- Power source from PoE injector, PoE Switch (order separately)
- **IP01P power source option model:**
 PoE injector/Switch: IP05I, IP05H



IP Cabling Transmission

IP02P

PoE Extender over Coax 180M

- Send any extend IP / PoE camera or any TCP/IP devices over existing coaxial cable.
- **Maximum range up to 180 meters over RG6 75Ω cable, 125 meters over RG59 75Ω cable.**
- **Ability to send power over coax to IP/PoE camera (DC5V, DC12).**
- Support 10/100BASE-T transmission rate.



IP03P

PoE Extender over Two Wire/Coax Cable 500M

- Extend Ethernet or any TCP/IP devices up to 1Km.
- Ethernet and PoE data over any two wire cable: UTP, Coax, telephone, bell, alarm, power cables.
- Data transfer distance up to 500M, data rate is up to 30Mbps based on distance.
- Support 10/100 Mbps transmission rate.
- Flexible power source either PoE Switch or external DC power adapter option. (order separately)
- Provides pass-through PoE up to IEEE802.3at 30W.
- Support high power PoE to PTZ cameras at long distances.
- Connected devices are supplied with up to 7W via PoE.
- **IP03P Power Source Option Model:**
DC48V 40W power adapter: SWP480830R
DC56V 70W power adapter: SWP551260
High Power PoE injector/ PoE Switch: IP06I, IP06H



IP04

PoE Repeater

- Extend both power and data beyond 100 meters.
- **Allow to use multiple repeaters for longer range.**
- No external power required.
- Compatible IEEE 802.3af PoE standard.
- Auto-sensing for detecting PoE or non-PoE devices.
- Support 10/100/1000 BASE-T transmission rate.
- Built in LED status indication.
- Plug and play for easy installation.



IP04X

High Power PoE Repeater

- **Identical to IP04, but support high power 30W PoE switch.**
- Compatible IEEE 802.3af and IEEE802.af PoE standard.
- Perfect for long range outdoor PoE camera use.



PoE Injector, Splitter, Switch

IP05

PoE Kit (IP05I PoE Injector, IP05S PoE Splitter)

- Include IP05I PoE injector and IP05S PoE splitter.
- Compatible IEEE 802.3af (12.95W) PoE standard, PSE/PD.
- **IP05I provides DC 48V power over RJ45 Ethernet cable to device with Ethernet port.**
- **IP05S splits the DC48V power over RJ45 Ethernet cable into DC 5V/12V output.**
- **Adjustable two different output voltage options (5V/2A, 12V/1A) to fit various devices.**
- **Supports PoE power up to 12.95 Watts for PoE port.**
- Support 10/100/1000 BASE-T transmission rate.



IP06

High Power PoE Kit (IP06I High Power PoE Injector, IP06S High Power PoE Splitter)

- Include IP06I PoE injector and IP06S PoE Splitter.
- Complies with IEEE 802.3at Gigabit High Power over Ethernet pre-standard, PSE/PD.
- **IP06I provides DC 56V power over RJ45 Ethernet cable to devices with Ethernet port.**
- **IP06S splits the 56V DC power over RJ45 Ethernet cable into DC 5V/12V output.**
- **Adjustable two different output voltage options (5V/ 4.5A, 12V/ 2A) to fit various devices.**
- **Supports PoE power up to 25 Watts for PoE port.**
- Support 10/100/1000 BASE-T transmission rate.

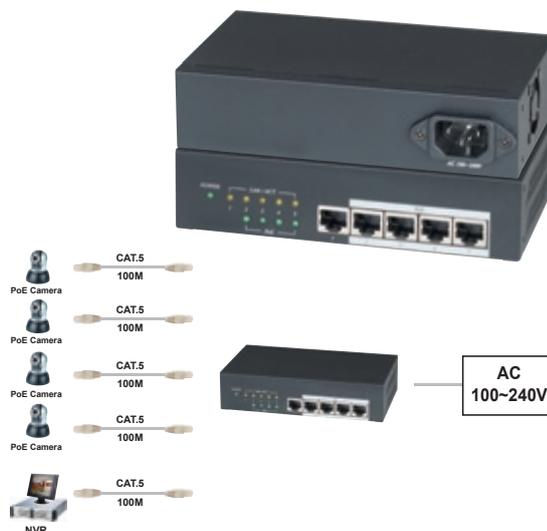


IP05H

5 Port PoE Switch

- 4-Port 10/100/1000Mbps with embedded PoE injector.
- 1-Port 10/100/1000Mbps for connecting to LAN.
- Auto-sensing for detecting PoE or non-PoE devices.
- Compatible IEEE 802.3af PoE standard.
- 2 units install at TPN002 rack mounting become 8 ports Switch.
- Internal power supply.

- **Option Model: TRN002 1U 19" Rack Mounting Panel**



IP06H

5 Port High Power PoE Switch

- 4-Port 10/100/1000Mbps with embedded PoE injector.
- 1-Port 10/100/1000Mbps for connecting to LAN.
- Auto-sensing for detecting PoE or non-PoE devices.
- Compatible IEEE 802.3at PoE standard.
- 2 units install at TPN002 rack mounting become 8 ports Switch.
- Internal power supply.

- **Option Model: TRN002 1U 19" Rack Mounting Panel**



TPN002-IP

1U 19" Racking Mounting Panel for IP05H/IP06H

- Standard 19-inch (482mm) wide, 1.75-inch (44mm) 1U high.
- Support up to 2 pieces of IP05H/ IP06H.



IP Cabling Transmission

IP/PoE Surge Protector

SP006

Network Surge Protector

- Perfect for IP camera, network, PC modem, server... protection.
- Protects CAT5 VGA extender series products (VE01A, VE02AL) or any computer equipments.



SP006P

PoE Surge Protector

- RJ45 Jack to RJ45 Jack
- Power and signal line protection.
- 10/100 Base-T CAT5/CAT5e compatible.
- Support Mid-Span PoE and End Span PoE.
- 802.3af and 802.3at PoE (Power over Ethernet) compatible.
- Application for PoE (Power over Ethernet) protection.



SP016N

16 Channel Network Surge Protector for NVR in 1U Rack Mounting Panel

- Provide protection for NVR, network, PC modem, server or any computer equipment with multiple inputs protection.



SP016P

16 Channel PoE Surge Protector for PoE Hub in 1U Rack Mounting Panel

- Protect 16 channel PoE switch (Power over Ethernet).
- Support Mid-Span and End Span PoE.



HD-SDI Converter

SDI01

HD-SDI to HDMI Converter with Loop Out

- To send 3G/HD/SDI signal convert to HDMI.
- Support SDI (SMPTE 259M), HD-SDI (SMPTE 292M), 3G-SDI (SMPTE 424M).
- Support video signal NTSC, PAL, 720p, 1080i, 1080p.
- **Support HDMI 7.1 Channel audio.**
- Built in Equalizer to increase the working distance and signal reliability.
- SDI loop out with retiming function to have the best output quality.



SDI02

HDMI to HD-SDI Converter

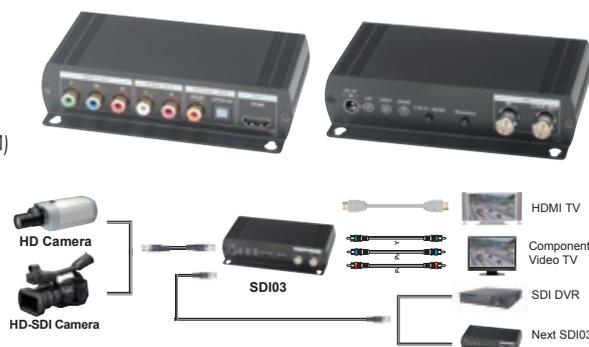
- To send HDMI signal converter to 3G/HD/SDI signal
- Support video signal 480i, 576i, 720p, 1080i, 1080p.
- Support SDI (SMPTE 259M), HD-SDI (SMPTE 292M), 3G-SDI (SMPTE 424M).
- **Support audio LPCM 7.1 Channel.**



SDI03

3G/HD-SDI to HDMI/Component Video Scaler Converter

- 3G/HD/SDI signal convert to component video or HDMI selection.
- **Support up/down scaler function**
- Support SDI (SMPTE 259M), HD-SDI (SMPTE 292M), 3G-SDI (SMPTE 424M)
- Video support NTSC, PAL, 720p, 1080i, 1080p
- **Audio Support: HDMI 7.1 Channel, 2 channel analog/digital audio.**
- Built in Equalizer to increase the working distance and signal reliability.
- **SDI Loop Out with retiming function to have the best output quality.**



SDI04D

1 Input 4 Output 3G/HD-SDI Distribution Amplifier

- HD-SDI re-clocking 1 in 4 out distribution amplifier
- Provides automatic input cable re-clocking and equalization to 400 meters.
- Support SDI (SMPTE 259M), HD-SDI (SMPTE 292M), 3G-SDI (SMPTE 424M).
- **HD signal distance total up to 400 meters.**
- Perfect for long range HD-SDI distribution application.



SDI04DE

1 Input 4 Output 3G/HD-SDI Distributor

- HD-SDI 1 in 4 out distributor
- Built in equalization for signal reliability.
- Support SDI (SMPTE 259M), HD-SDI (SMPTE 292M), 3G-SDI (SMPTE 424M).
- **HD signal distance up to max. 200 meters.**
- Economic solution and suitable for short distance distribution.



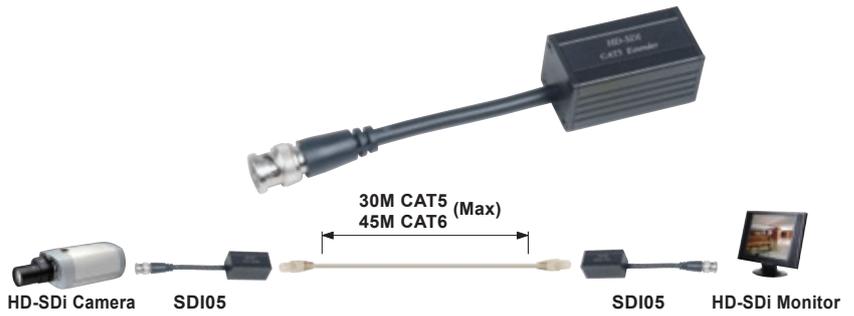
HD-SDI (HD CCTV) Transmission

HD-SDI Repeater & CAT5 Extender

SDI05

HD-SDI CAT5 Extender - Passive type

- To send HD SDI signal over CAT5e/6 UTP cable.
- Support SDI (SMPTE 259M), HD-SDI (SMPTE 292M)
- No external power required.
- **HD-SDI resolution distance: 30M over CAT5 , 45 meters over CAT6.**
- **Up to 150M meters via CAT6 cable at SDI resolution.**



SDI05A

HD-SDI & Data over CAT5 Extender – Active Type

- To send HD SDI and RS485 signal over CAT5e/6 UTP cable.
- Support RS485 data signal.
- Support SDI (SMPTE 259M), HD-SDI (SMPTE 292M)
- **Up to 100M meters via CAT5e cable at HD-SDI resolution.**
- **Optional model: SR01 signal repeater for longer distance application.**



SR02

HD-SDI & Data Repeater over One Coax – Power Chainable

- Extend HD SDI signal over 75Ω coax cable up to 200M.
- Support SDI (SMPTE 259M), HD-SDI (SMPTE 292M), 3G-SDI (SMPTE 424M).
- Support video signal NTSC, PAL, 720p, 1080i, 1080p.
- Built in RS485 control with half duplex speed up to 57,600 bps, but which effects only when using 2 pieces or more than 2 pieces SR02 long range installation.
- **Ability to do multiple repeaters application up to 5 pieces with distance 1KM (Max.)**
- **Ability to send power to next SR02 repeater unit over coax cable from the remote repeater (nearest the DVR) when using 2 piece or more than 2 pieces SR02 long range installation.**



SR02E

HD-SDI Repeater with 1 In 2 Out Distributor

- Extend HD SDI signal over 75Ω coax cable up to 200M.
- Support SDI (SMPTE 259M), HD-SDI (SMPTE 292M), 3G-SDI (SMPTE 424M).
- **Built in 2 output HD-SDI distribution function.**
- Support video signal NTSC, PAL, 720p, 1080i, 1080p.
- Reclocker to resynchronize the signal—bringing it back to its original condition.
- Compact size for easy installation.

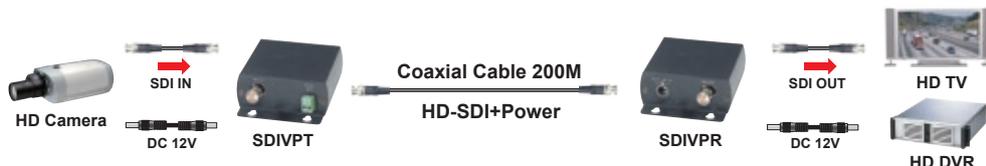


HD-SDI (HD CCTV) Transmission

SDIVP

HD-SDI & Power over One Coax Cable

- To send HD-SDI video and camera power over one coaxial cable.
- **Transmission distance up to 200 meters at HD-SDI 1.5Gbps.**
- **Support power input: DC12V, AC24V, DC48V**
- **Support camera power up to DC12V 1Amp.**
- Support SDI (SMPTE 259M), HD-SDI (SMPTE 292M), 3G-SDI (SMPTE 424M).
- Support video signal NTSC, PAL, 720p, 1080i, 1080p.

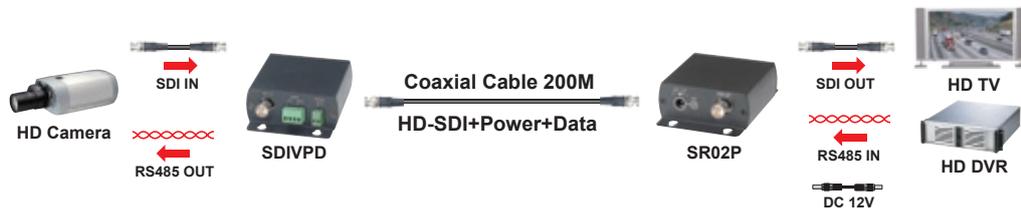


HD-SDI (HD CCTV) Transmission

SDIVPD

HD-SDI & Power, RS485 Data over One Coax Cable

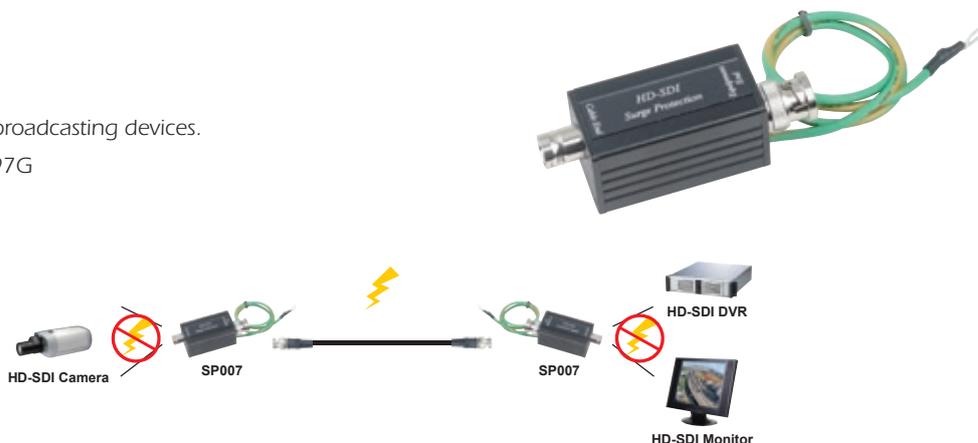
- **Identical to SDIVP, but with RS485 data.**



SP007

HD-SDI Surge Protector

- BNC male to BNC female.
- Provide protection for HD CCTV, broadcasting devices.
- SDI transmission rate: 270M ~ 2.97G
- Resisting Surge: 8KV (Max)
- Discharging Current: 10KA (Max)
- Reaction Speed: <1nS.



SP007L

HD-SDI Surge Protector for HD-SDI DVR

- **Identical to SP007, but with 10cm HD coax cable for easy mounting behind DVR and reduce video loss.**



HDMI Transmission

HDMI over IP

HE05B

HDMI over IP (Matrix) Broadcasting

- Transmit HDMI signal over one CAT5e/6/7 cable.
- Flexible and scalable HDMI 1080p Broadcasting with Gigabit Ethernet LAN.
- Support point to point and point/multi to multi-display connections via Gigabit network switch.
- **Built in window based management software, using computer for easy setting input/output link and transmission.**
- **HDMI input : HE05T maximum up to 6 pcs.**
- **HDMI output: HE05R maximum up to 200 pcs.**
- Applications for digital signage, home network integration, and industrial control, hospital, education, security.
- Support HDMI resolution up to 1080p 100M.
- HDMI 1.3b and HDCP compliant.
- HDMI audio support up to LPCM 7.1@192Khz, Dolby TrueHD, DTS-HD. Built in one individual stereo audio transmission to do sound broadcasting.
- Built in one IR signal transmission to remote control the remote devices.
- **Option model: SR01 signal repeater for longer distance application.**
- **Option model HS10M HDMI 10 x 10 Matrix for easy operation on multiple input sources.**



HKM01

HDMI & USB, Audio, RS232, IR CAT5 Extender over IP

- Extend HDMI, RS232, IR and USB signals over one CAT5E/CAT6 cable.
- **Supports resolutions up to 1080p Full HD and 1920 x 1200 (WUXGA) 24 bits@ 60 Hz**
- **Transmission range up to 150M over CAT5e, 180M over CAT6.**
- Supports 2-way RS232 commands at baud rate 115200 (control software on a PC, or other automated control system hardware) to control devices attached to the matrix using RS232. Full Duplex data communication.
- Built in Bi-Directional analog audio.
- Built in Bi-Directional IR.
- **HKM01T transmitter unit built in HDMI loop output.**
- Receiver unit with 4 ports USB devices (1 port USB 1.1 & 3 Port USB 2.0), to extend USB peripheral devices, such as flash disk, hard disk, keyboard, mouse, etc.
- **Support point to point and multiple source devices to multi-display connections via Gigabit network switch.**
- Perfect for control remote machines and security monitoring systems, digital signage application.
- **Option model: SR01 signal repeater for longer distance application.**



HDMI CAT5/Coax Extender & Distributor

HE01C

HDMI over Coax Extender

- Send HDMI signal over single coaxial cable up to 100 Meters at 1080p solution.
- Support video signal NTSC, PAL, 720p, 1080i, 1080p.
- **Support daisy chain multiple remote displays. (Model no: HE01CR Receiver)**
- **Support HDMI 7.1 Channel audio.**
- **Option model: HE01CR Receiver.**



HE03L

HDMI CAT5 Extender 180M with Chainable Receiver

- Extends HDMI signal over one CAT5/5e/6 cable.
- Including HE03LT transmitter and HE03LR receiver unit.
- **Receiver built in 1 x HDMI output and 2 x CAT5 output for chainable to another receiver for longer distance and multiple displays.**
- HE03LR receiver could be chainable up to 31 layers with distance 3.1KM. It also could be cascade, total up to 100 displays. **(Model no: HE03LR Receiver)**
- HDMI 1.3 compliant, HDCP compatible.
- **Transmission range up to 150M over CAT5e, 180M over CAT6.**
- **Option model: HE03LR Receiver.**



IE01

Bi-Directional IR CAT5 Extender

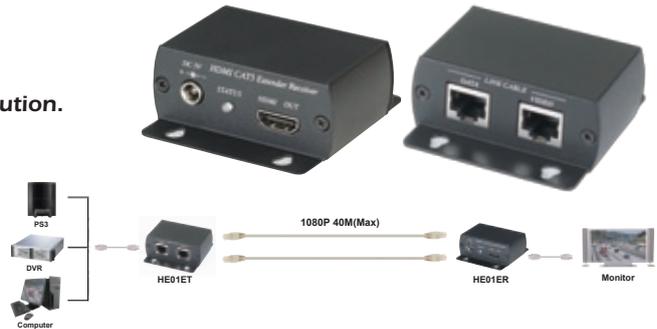
- Extend IR (infrared) control signal up to 1.2KM over one CAT5/5e/6 cable.
- IR receiver frequency range: 30Khz to 60Khz.
- Supports up to 4 outputs.
- Support Bi-directional application.
- External power adapter requested either at transmitter or receiver unit.
- Package include IR CAT5 Extender Kit, 1 x power adapter, 2 x IR emitter cable, 2 x IR receiver cable.
- **Option model: IR-CT01 IR emitter cable.**



HE01E

HDMI CAT5 Extender over Two CAT5 Cable

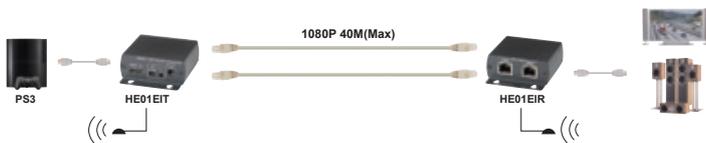
- Extends HDMI signal over two CAT5/5e/6 cables.
- Transmission range up to 60M at 1080i, 40M at 1080p resolution.
- 3D Capable.
- HDMI 1.3a compatible, HDCP 1.1, support DDC, EDID, CEC, Hot Plug Detect.
- No power need within 30meters.
- External power supply requested at remote unit for transmission range over 30 meters.
- HDCP compliant.



HE01EI

HDMI & IR CAT5 Extender over Two CAT5 Cable

- Identical to HE01E, but built in IR repeater function.
- 3D Capable.



HE01SI

HDMI & IR CAT5 Extender over Single CAT5 Cable

- Extends HDMI and IR signal over one CAT5/5e/6 cable.
- **HDMI 1.3 compliant, 3D capable**
- Built in IR control, IR signal could be selectable at either TX/RX side.
- Transmission range up to 70 meters by 1080i/720p.
- Transmission range up to 40 meters by 1080p@60Hz@24bit.
- Built in auto equalization for easy plug and play.
- Transmitter unit built in EDID auto backup function.
- HDCP compatible.



HE01S (HE01ST: Transmitter, HE01SR: Receiver)

HDMI CAT5 Extender over Single CAT5 Cable

- Extends HDMI signal over one CAT5e/6 cable.
- **HDMI 1.3 compliant, 3D capable.**
- Transmission range up to 60M at 1080i, 40M at 1080p resolution.
- Built in auto equalization for easy plug and play.
- Transmitter unit built in EDID backup function.
- No external power requested at receiver unit under distance 30 meters.
- HDCP compatible.
- Optional HDMI CAT5e Receiver: HE01SLR, HE01SER.



HDMI Transmission

HE01SE (HE01ST: Transmitter, HE01SER: HDMI Passive CAT5 Receiver)

HDMI CAT5 Extender over Single CAT5 with Passive Receiver

- Work with HE01ST as economic type receiver.
- Passive, no external power required.
- HDMI 1.3 compliant. 3D Capable.
- Transmission range up to 60M at 1080i/720p, 40M at 1080p resolution.
- No external power requested at HE01SER receiver unit.



HE01SL (HE01ST: Transmitter, HE01SLR: HDMI CAT5 Receiver - Chainable Function)

HDMI CAT5 Extender over Single CAT5 with Chainable Receiver

- Work with HE01ST as receiver for extra remote HDMI display equipment.
- Built in Loop out, could be daisy chained for another HE01SLR to extended working range and multiple displays.
- Built in auto equalization, retiming, pre-emphasized for optimum performance.
- Transmission range up to 70M at 1080i, 30M at 1080p resolution.



HDBaseT (HDMI) CAT5 Extender & Distribution Amplifier & Matrix Switcher

HE02EI

HDMI (HDBaseT) & IR CAT5 Extender over Single CAT5 Cable 70 Meters

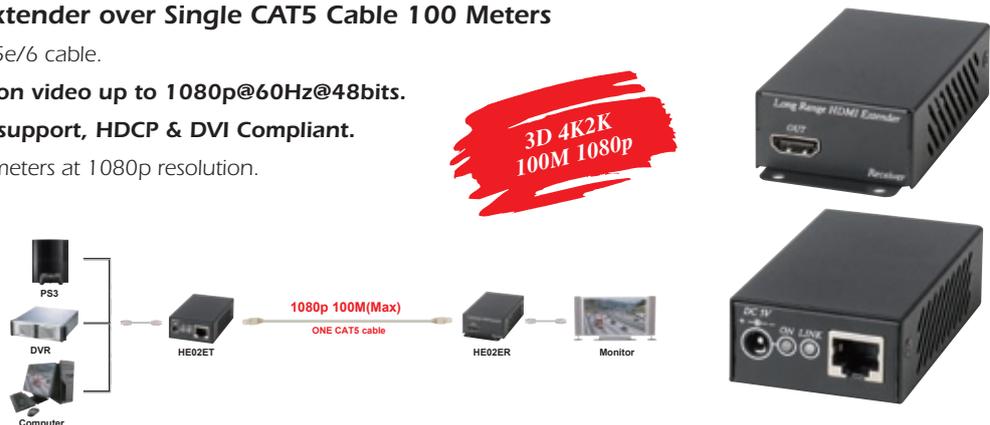
- Extends HDMI and IR signal over one CAT5/5e/6 cable.
- Uncompressed high definition video up to 1080p@60Hz@48bits.
- HDMI 1.4 with 3D, 4k x 2k support, HDCP & DVI Compliant.
- Transmission range up to 60M by CAT5e/6, 70M by CAT6a cable at 1080p@60Hz@24bits.
- Built in IR control, IR signal could be selectable at either TX/RX side.
- Max. Data Rate- 10.2Gbps.



HE02E

HDMI (HDBaseT) CAT5 Extender over Single CAT5 Cable 100 Meters

- Extends HDMI over one CAT5/5e/6 cable.
- Uncompressed high definition video up to 1080p@60Hz@48bits.
- HDMI 1.4 with 3D, 4k x 2k support, HDCP & DVI Compliant.
- Transmission range up to 100 meters at 1080p resolution.
- Max. Data Rate- 10.2Gbps.



HE02

HDMI (HDBaseT) CAT5 Extender with RS232 & IR over Single CAT5 Cable

- Extends HDMI, RS232 and IR signal over one CAT5/5e/6 cable.
- Uncompressed high definition video up to 1080p@60Hz@48bits.
- HDMI 1.4 with 3D, 4k x 2k support, HDCP & DVI Compliant.
- Transmission range up to 100 meters at 1080p resolution.
- Max. Data Rate- 10.2Gbps.
- Bi-Directional IR.
- Bi-Directional RS232 interface – commands and data can flow in both directions via RS232, allowing status requests and control of the destination unit.



HE02N

HDMI (HDBaseT) CAT5 Extender with Ethernet/ARC/RS232/IR

- Extends HDMI, Ethernet, ARC, RS232 and IR signal over one CAT5e/6 cable.
- Uncompressed high definition video up to 1080p@60Hz@48bits.
- HDMI 1.4 with 3D, 4k x 2k support, HDCP & DVI Compliant.
- Max. Data Rate- 10.2Gbps.
- Audio supports up to LPCM 7.1 @ 192KHz, Dolby TrueHD, DTS-HD MA
- Transmission range up to 100 meters at 1080p resolution.
- Support one port 10/100Mbps network, allow to connect the network TV or Ethernet devices.
- ARC or optical digital audio mode auto selection, send TV digital audio back to the amplifier.
- Bi-directional IR, support 30-60khz.
- Bi-Directional RS232 interface – commands and data can flow in both directions via RS232, allowing status requests and control of the destination unit.



HE02P

HDMI (HDBaseT) CAT5 Extender with Ethernet/RS232/IR/PoH

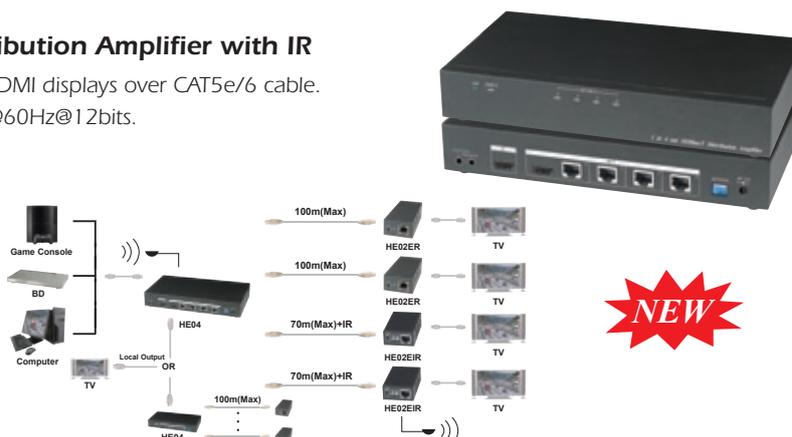
- Extends HDMI, RS232 and IR signal with Ethernet over one CAT5e/6 cable.
- Uncompressed high definition video up to 1080p@60Hz@48bits.
- HDMI 1.4 with 3D, 4k x 2k support, HDCP & DVI Compliant.
- Max. Data Rate- 10.2Gbps.
- Audio supports up to LPCM 7.1 @ 192KHz, Dolby TrueHD, DTS-HD MA
- Transmission range up to 100 meters at 1080p resolution.
- Bi-directional IR, support 30-60khz.
- Bi-Directional RS232 interface – commands and data can flow in both directions via RS232, allowing status requests and control of the destination unit.
- Support two port 10/100Mbps network, allow to connect the network TV or Ethernet devices.
- Support PoH (Power over HDBaseT), no external power required at receiver.
- External power supply included for the Transmitter.



HE04

1 Input 4 Output HDMI (HDBaseT) Distribution Amplifier with IR

- Extends and distributes HDMI signal to 4 remote HDMI displays over CAT5e/6 cable.
- Uncompressed high definition video up to 1080p@60Hz@12bits.
- HDMI 1.4 with 3D, HDCP & DVI Compliant.
- Built in HDMI local output at transmitter unit.
- Built in IR extender (work with receiver: HE02EIR)
- Work with HE02ER receiver: distance up to 100 meters at 1080p resolution
- Work with HE02EIR receiver: distance up to 70 meters at 1080p resolution
- Option model: HE02R, HE02EIR CAT5 Receiver

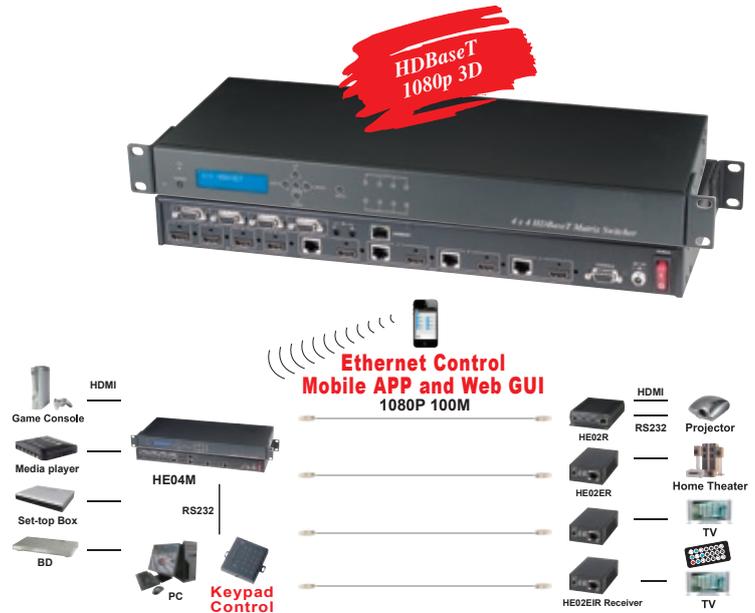


HDMI Transmission

HE04M

4 x 4 HDMI (HDBaseT) Matrix Switcher

- Extends and distributes HDMI signal to 4 remote HDMI displays over CAT5e/6 cable.
- Uncompressed high definition video up to 1080p@60Hz@12bits.
- HDMI 1.4 with 3D, HDCP & DVI Compliant.
- Built in HDMI local output at transmitter unit.
- Built in IR extender (work with receiver: HE02EIR)
- Work with HE02ER receiver: distance up to 100 meters at 1080p resolution
- Work with HE02EIR receiver: distance up to 70 meters at 1080p resolution
- Option model: HE02R, HE02EIR CAT5 Receiver
- Option model: RC04 Keypad remote control HE04M to select input/output.



HE10M

10 x 10 HDMI (HDBaseT) Matrix Switcher

- 8 HDMI input with 2 HDBaseT input
- 8 HDBaseT output with 2 HDMI output.



RC04

4 X 4 Keypad for HE04M/HS04M Matrix Switcher

- RC04 special design to control for HE04M/HS04M Matrix Switcher.
- Use CAT5e cable to connect RC04T transmitter and RC04R receiver, max distance up to 300M.
- No external power required. Power from HE04M / HS04M power adaptor.
- It also could be use RS232 to control HE04M / HS04M via a remote PC.



RC10

10 X 10 Keypad for HE10M/HS10M Matrix Switcher

- Identical to RC04, but support 10x 10 for HE10M/HS10M control.



HDMI Distribution Amplifier, Switcher, Repeater, Converter

HD02

1 Input 2 Output HDMI Distribution Amplifier

- Connects up to 2 HDMI displays at the same time from a digital video source.
- Support resolution: 480i, 480p, 720p, 1080i, 1080p @24/50/60Hz, 4K2K
- 3D Capable.
- Bandwidth 25-225Mhz, support up to 12-Bit deep color.
- Support HDCP 1.3a, HDCP compliant.



HD04

1 Input 4 Output HDMI Distribution Amplifier

- Identical to HD02, but 4 HDMI displays at the same time from a digital video source.



HS04

4 Input 1 Output HDMI Switcher

- Switch easily between any four HDMI sources by remote control or push button front.
- HDMI 1.3a compliance, support 12 Bits deep color (Data rate up to 2.25Gbps) and 3D Capable.
- Supports high resolution input: 480i, 576i, 480p, 576p, 720p, 1080i and 1080p @60Hz.
- Built in auto scan switching input function, to automatically select the next one with the signal of the input.
- Built in auto jump function, to automatically select the new video input.
- Easy to use front panel control of switching or using the included remote control.
- PC Remote control option: USB, RS-232 or RS-485 terminal devices. (Order separately).



HS07

7 Input 1 Output HDMI Switcher

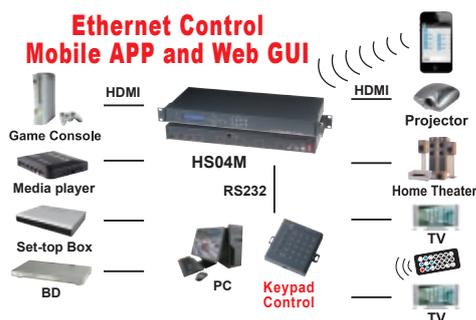
- Identical to HS04, but switch 7 HDMI devices.



HS04M

4 x 4 HDMI Matrix Switcher

- Connect up to 4 HDMI source to 4 x HDMI display monitors.
- HDMI 1.4 with 3D, HDCP & DVI Compliant.
- High definition video up to 1080p@60Hz@12bits.
- Easy to use front panel control of switching or using the included remote control.
- Built in Ethernet Control and Android App Control.
- Built in RS232 console port to select input/output.
- Input/Output status could be displayed at front panel LCM & LED.
- Option model:
RC04: 4 x 4 Keypad remote control (select HE04M input/output)



HS10M

10 x 10 HDMI Matrix Switcher

- Identical to HS04M, but support 10 x 10 port.



HDMI Transmission

HC01

HDMI to Composite Video with Stereo Audio Converter

- Converts HDMI or DVI video signals to analog composite video with stereo audio.
- Support NTSC, PAL video system.
- Support Stereo audio output.
- Supports resolutions up to 1920 x 1080@60Hz.
- HDMI and DVI compliant.



HVY01

HDMI to VGA/Component with Stereo Audio Converter

- Supports HDMI input and VGA or component with stereo audio output.
- Allows user to select between VGA or component video output.
- Supports VGA resolutions up to 1920x1080 or component video up to 1080p.
- Supports 2 channel audio output (RCA: White (L), Red (R), Stereo Phone Jack 3.5mm).
- Built in auto memory function.
- On screen display function.
- HDMI and DVI compliant



HD01

HDMI to DVI Converter

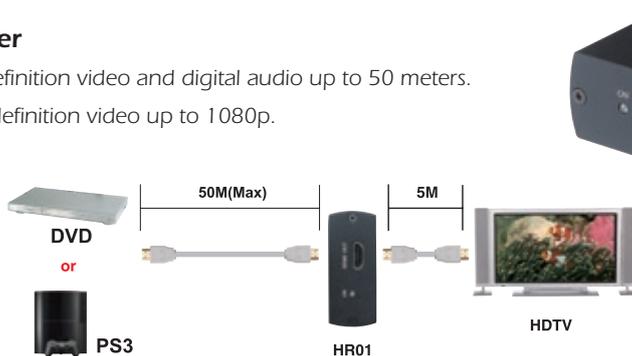
- HDMI 1.3 compatible.
- Fully HDCP compliant.
- HDMI video up to 225MHz.



HR01

HDMI Repeater

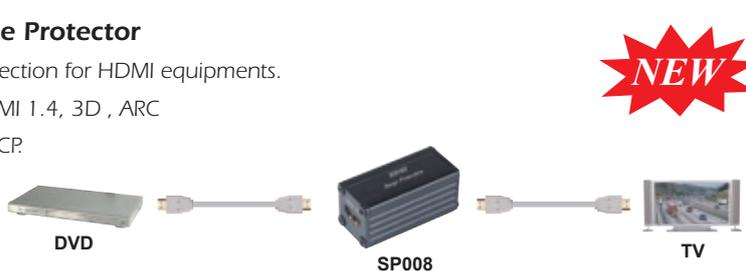
- Extends high definition video and digital audio up to 50 meters.
- Supports high definition video up to 1080p.



SP008

HDMI Surge Protector

- Provide protection for HDMI equipments.
- Support HDMI 1.4, 3D, ARC
- Support HDCP.



VGA / HDMI KVM CAT5 Extender

VKM01

VGA Keyboard Mouse CAT5 Extender – PS/2 Interface

- Extend VGA and keyboard mouse over 2 CAT5 cable.
- Passive, no power required.
- Transmission range up to 100 meters.



VKM02

VGA Keyboard Mouse CAT5 Extender – USB Interface at Local Unit

- Identical to VKM01, but the keyboard mouse with USB interface at local unit.



VKM03

VGA KVM & USB with Stereo Audio, RS232, IR CAT5 Extender

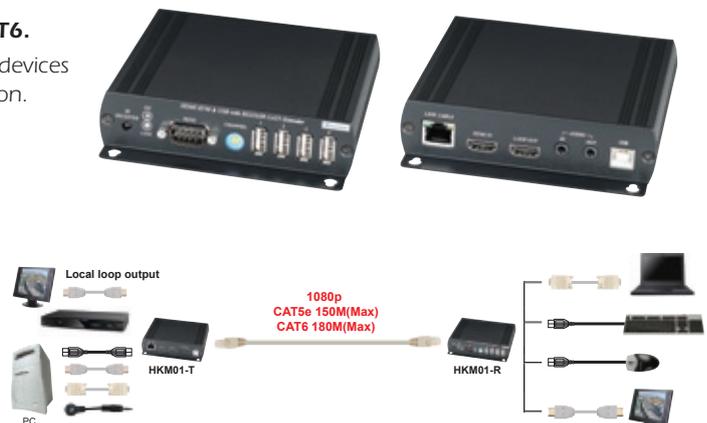
- Extend VGA, stereo audio, RS232, IR and USB signals over one CAT5E/CAT6 cable.
- USB port support USB 2.0, USB 1.0 & USB 1.1
- Full Duplex data communication.
- Transmitter unit built in VGA loop output.
- Receiver unit with 4 ports USB devices, to extend USB 2.0 peripheral devices, such as flash disk, hard disk, keyboard, mouse, etc.
- Supports up to 1920 x 1080.
- Transmission range up to 140 meters over CAT5e, 180M over CAT6.
- Support point to point and point to multi-display connections via Gigabit network switch.
- Plug and play for easy operation.
- Perfect for control remote machines and security monitoring systems, digital signage application.
- Option model: SR01 signal repeater for longer distance application.



HKM01

HDMI KVM & USB with RS232, IR CAT5 Extender

- Extend HDMI, RS232, IR and USB signals over one CAT5E/CAT6 cable.
- Supports resolutions up to 1080p Full HD and 1920 x 1200 (WUXGA) 24 bits@ 60 Hz
- Transmission range up to 150M over CAT5e, 180M over CAT6.
- Supports 2-way RS232 commands at baud rate 115200 to control devices attached to the matrix using RS232. Full Duplex data communication.
- Built in Bi-Directional analog audio.
- Built in Bi-Directional IR.
- HKM01T transmitter unit built in HDMI loop output.
- Receiver unit with 4 ports USB devices (1 port USB 1.1 & 3 Port USB 2.0), to extend USB peripheral devices, such as flash disk, hard disk, keyboard, mouse, etc.
- Support point to point and multiple source devices to multi-display connections via Gigabit network switch.
- Perfect for control remote machines and security monitoring systems, digital signage application.
- Option model: SR01 signal repeater for longer distance application.

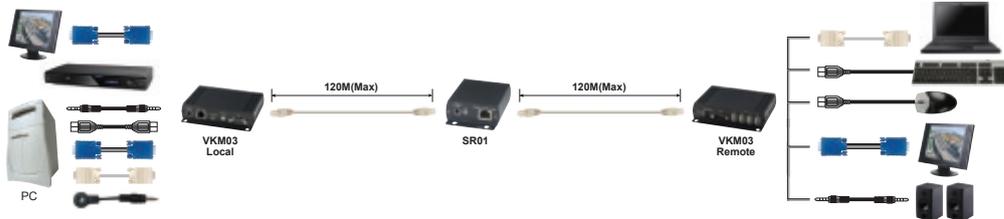


VGA Transmission

SR01

Signal Repeater

- It could boost the signal for longer distance up to 240M.
- Application model: UE02 USB 2.0 CAT5 Extender and VKM03, HKM01, SDI05A VGA KVM, HD-SDI CAT5 extender.
- A longer range extension could be done by using multiple repeaters.
- External power required.

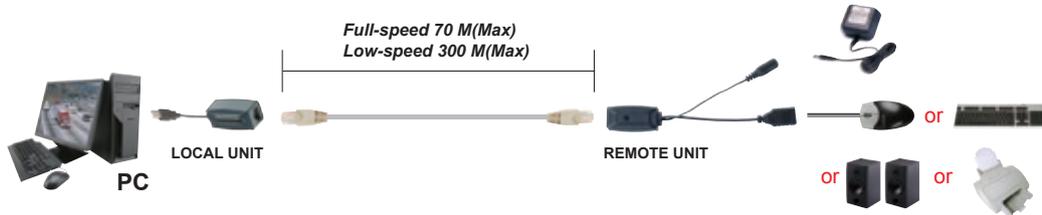


CAT5 VGA ,USB, Keyboard Mouse Extender

UE01

USB 1.1 CAT5 Extender - Single Port

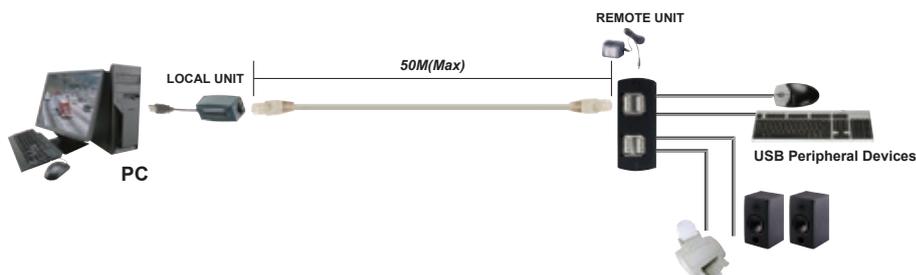
- Extend one USB device with full-speed 70 meters (Max), low-speed 300 meters (Max) over CAT5/5E cable.
- Distance less 50 meters, no external power required.
- Distance over 50 meters, external power adapter requested at remote unit.
- Low speed keyboard mouse equipments up to 300 meters, external power adapter requested at remote unit.



UE04H

USB CAT5 Extender with 4 Port USB 1.1 Hub

- Extend four USB devices up to 50 meters over CAT5/5E cable.
- Remote unit built in 4 port hub to connect 4 USB devices.
- Application for extending USB peripheral devices, such as security cameras, printer, scanner, keyboard, mouse, etc.



UE02

USB 2.0 CAT5 Extender with 4 Port USB Hub – 150M

- Extend four USB devices up to 150 meters over CAT5/5E cable.
- Supports USB 2.0 high-speed and USB 1.1 (low-speed, full speed) devices.
- Remote unit built in 4 port hub to connect 4 USB devices.
- Application for extending USB 2.0 peripheral devices, such as flash drive, hard drive, keyboard, mouse, etc.
- **Option model: SR01 signal repeater for longer distance application.**



UE03

USB 2.0 Fast CAT5 Extender with 4 Port USB Hub - 60M

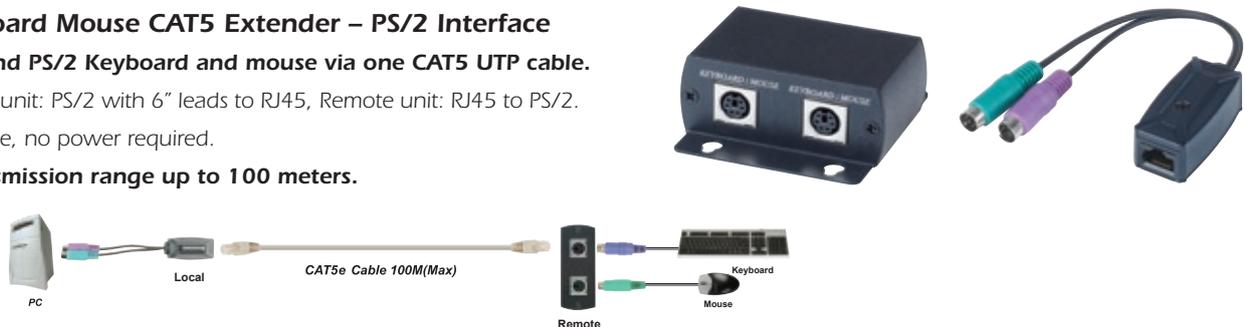
- Extend four USB devices up to 60 meters over CAT5e cable.
- Supports USB 2.0 high-speed and USB 1.1 (low-speed, full speed) devices.
- Remote unit built in 4 port hub to connect 4 USB devices.
- **Application for extending all USB 2.0 peripheral devices, such as USB camera, printer, scanner, USB Ethernet/VGA/HDMI adapter, mass storage device, keyboard, mouse, etc.**



KM01

Keyboard Mouse CAT5 Extender – PS/2 Interface

- Extend PS/2 Keyboard and mouse via one CAT5 UTP cable.
- Local unit: PS/2 with 6" leads to RJ45, Remote unit: RJ45 to PS/2.
- Passive, no power required.
- **Transmission range up to 100 meters.**



KM02

Keyboard Mouse CAT5 Extender – USB Interface at Local Unit

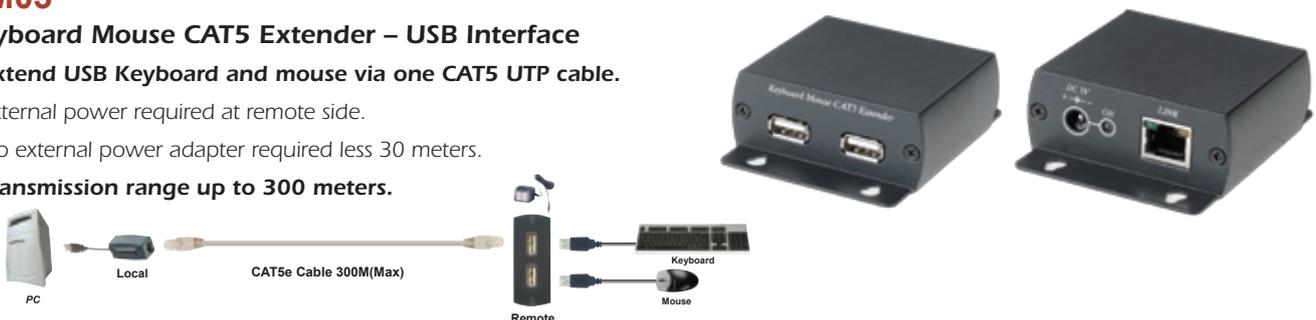
- **Identical to KM01, but local unit (PC side) : USB to RJ45**



KM03

Keyboard Mouse CAT5 Extender – USB Interface

- Extend USB Keyboard and mouse via one CAT5 UTP cable.
- External power required at remote side.
- No external power adapter required less 30 meters.
- **Transmission range up to 300 meters.**



VGA Transmission

VE01P (TTP111VGA)

Passive VGA CAT5 Extender

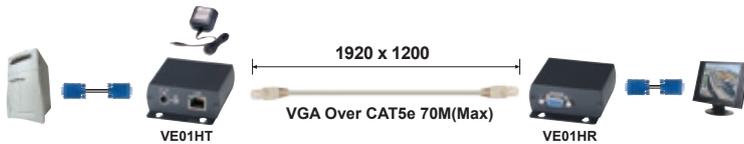
- Passive device, no power required.
- Supports up to 1280x1024 pixels.
- Up to 135 meters via standard 4 pairs CAT5 STP or UTP cable instead of VGA cable.
- Compatible with wall plate type VGA extender: VW01, VW02



VE01H

Active High Resolution VGA CAT5 Extender

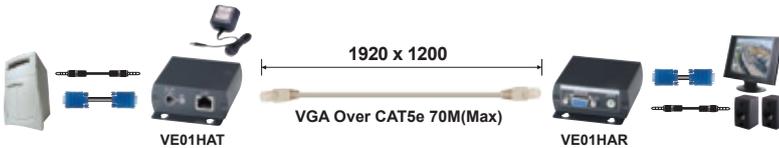
- Economic active type.
- Supports high resolution up to 1920 x 1200 at 70 meters.
- External power required at transmitter unit, no power requested at receiver unit.



VE01HA

Active High Resolution VGA CAT5 Extender with Stereo Audio

- Identical to above VE01H, but with stereo audio function.
- Audio by digital encoding process for sound undistorted.
- Compatible with wall plate type VGA extender: VW01HA, VW02HA



VE01 (TTA111VGA)

Active Long Range VGA CAT5 Extender

- Built in contrast, brightness adjustment at receiver.
- Supports up to 1600x1200 @85Hz
- Long range transmission up to 300 meters (Max.)



VE01S (VD02)

VGA & RS232/RS485 Long Range CAT5 Extender

- Send VGA and RS232/RS485 data over one CAT5 cable.
- Dual output: 1 VGA loop output for local, plus 1 CAT5 RJ45 output for remote side.
- Supports up to 1600x1200 @85Hz.
- Long range transmission up to 300 meters (Max.)
- Built in dip switch for RS232 or RS485 option.
- Application for sending video images to a projector and controlling it from your desk
- Perfect for touch screen or auto control equipment application.



CAT5 VGA, Audio Extender & Distribution Amplifier

VD04A

1 Input 4 Output VGA Distributor with Stereo Audio

- Connects computers with VGA graphics to four VGA monitors.
- Supports stereo audio.
- Supports up to 450 MHz bandwidth.
- Supports high resolution up to 1920 x 1200.
- Cascadable for multi outputs.



VE02 (VD102)

CAT5 VGA 1 Input to 2 Output Distributor

- Dual output: 1 VGA loop output for local and 1 x CAT5 output for remote side.
- Long range transmission up to 300 meters (Max.)
- Supports up to 1600x1200 @85Hz.
- Built in contrast, brightness adjustment at receiver.
- Option model: VE02DALS Chainable CAT5 Receiver.



VE05 (VD105)

CAT5 VGA 1 Input to 5 Output Distributor

- Identical to VE02, but VE05T transmitter with 4 port CAT5 output for remote side.
- Each set including 1x VE05T transmitter and 1 x VE01R receiver.
- Each VGA display equipment request one receiver at remote side. (Order separately).
- Option model: VE01R VGA CAT5 Receiver, VE02DALS Chainable CAT5 Receiver



VE01R (TTA111VGAR)

CAT5 Long Range VGA Receiver for VE05 Option Model

- Work with VE05T as receiver for extra remote VGA display equipment.
- Built in contrast, brightness adjustment
- Long range transmission up to 300 meters (Max.)



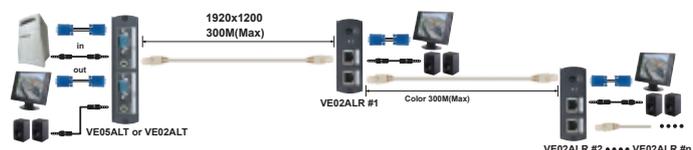
VE02AL

1 In 3 Out VGA & Stereo Audio CAT5 Extender Distributor – Chainable Function

- Dual output: 1 VGA loop output for local, plus 2 x CAT5 output for remote side.
- Long range transmission up to 300 meters (Max.)
- Supports up to 1920x1200 @85Hz.
- Built in equalization, gain adjustment, chainable CAT5 output at remote unit.
- Audio by digital encoding process for sound undistorted.
- Option model: VE02ALR CAT5 Receiver, VE02DALS Chainable Receiver.



Chainable



VGA Transmission

VE05AL

1 In 5 Out VGA & Stereo Audio CAT5 Extender Distribution Amplifier - Chainable Function

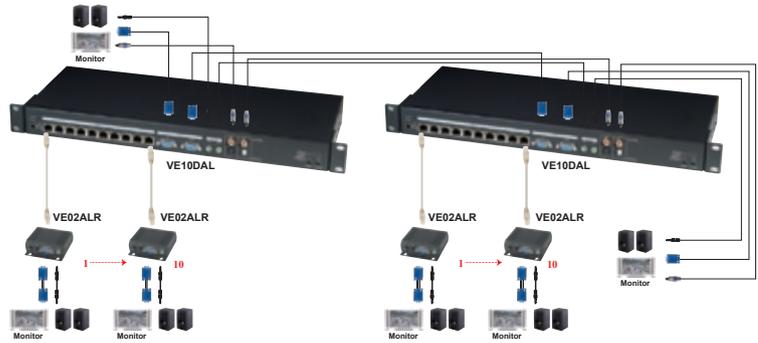
- Identical to VE02ALT, but VE05ALT transmitter with 4 port CAT5 output for remote side.
- Each set including 1x VE05ALT transmitter and 1 x VE02ALR receiver.
- Each VGA display equipment request one VE02ALR receiver at remote side. (Order separately).
- CAT5 receiver option model: VE02ALR CAT5 Receiver, VE02DALS Chainable Receiver.



VE10DAL

1 In 11 Out VGA & Stereo/Digital Audio CAT5 Extender Distributor in 1U Rack Mounting Panel

- Dual output: 1 VGA loop output for local, plus 10 x CAT5 output for remote side.
- Built in one loop out allows cascading connection multi units for larger display system.
- Audio by digital encoding process for sound undistorted.
- Extends signals up to 300 meters over CAT5 cable.
- Supports up to 1600x1200 @85Hz.
- CAT5 receiver option model: VE02ALR CAT5 Receiver, VE02DALS Chainable Receiver.



VE02ALR

VGA & Stereo Audio CAT5 Receiver- Chainable Function

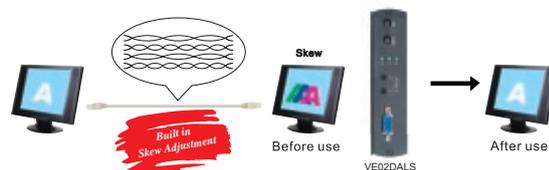
- Work with VE02ALT/ VE05ALT/ VE10DAL, as receiver for extra remote VGA display equipment.
- It could be daisy chained for another VE02ALR to extended working range over 300 meters and multiple displays.
- Built in equalization, gain adjustment.



VE02DALS

VGA & Stereo/Digital Audio CAT5 Receiver- Built in Skew Corrector

- Work with transmitter VE01T/VE02T/VE05T/ VE02ALT/VE05ALT/VE10DAL, as receiver and built in RGB skew corrector for the optimum video performance under long cable run.
- Built in digital audio output (coaxial, optical)
- Built in chainable function.



VGA Converter

AD001

Video to VGA Converter

- Special designed for computer VGA monitor, LCD color monitor.
- Support NTSC, PAL video system.
- **Built in auto memory function.**
- On screen display function: Brightness, Tint, Color, Contrast.
- **Resolution: NTSC: 720 x 480 @ 60 Hz • PAL: 720 x 576 @ 50 Hz**
- PAL, NTSC auto configure.



AD001H

High Resolution Video to VGA Converter with BNC Loop Out

- **Dual output: DB15 x 1 for VGA monitor and BNC x 1 for TV monitor.**
- Support NTSC, PAL video system.
- **Input video system 50 to 60Hz frame rate detection (NTSC/PAL).**
- **The DEINTERLACED and Scan rate conversion output mode: 800 x 600, 1024 x 768, up to 1280*1024@60Hz.**
- **Frequency output: 60Hz, 75Hz, 85Hz.**
- **Built in ESD protection.**



AD001HH

Composite Video to HDMI / VGA Scaler Converter

- Composite video inputs via RCA, VGA and HDMI output.
- Support NTSC, PAL video system.
- Input video system 50 to 60Hz frame rate detection (NTSC/PAL).
- The DEINTERLACED and Scan rate conversion output mode: 640x480, 800x600, 1024x768, 1280x720, 1280x1024, 1920x1080@60Hz.
- **Support HDMI output: 720P, 1080I, 1080P.**
- **Built in stereo audio input and output.**
- Frequency output: 60Hz, 75Hz, 85Hz.



VC01

VGA to Video Converter

- **Connects VGA output to existing TV or CRT monitor.**
- Video standards: NTSC/NTSC-EIAJ/PAL/PAL-M/PAL-N/SECAM.
- Resolutions support: 640 x 480 (up to 85 Hz), 800 x 600 (up to 85 Hz) and 1024 x 768 (up to 75 Hz).
- **Dual output ports: composite video (BNC connector), VGA (DB15).**



VH01

VGA to HDMI Converter with Local Loop VGA Output

- Convert VGA & stereo/Digital (SPDIF) audio to HDMI display.
- **Built in local VGA loop output with stereo/digital (SPDIF) audio.**
- **Supports PC resolution up to 1920 x 1080.**
- Support HDMI & DVI output mode.
- Encodes analog stereo audio or digital audio onto the video signal for HDMI video and audio.



DVI Transmission

DE02E

DVI CAT5 Extra Long Range Extender over Single CAT5 Cable 100 Meters

- Extends DVI over one CAT5e/6 cable.
- **Uncompressed high definition video up to 1920 x1200@60Hz@48bits and 3D capable.**
- Max. Data Rate- 10.2Gbps.
- **Transmission range up to 100 meters at 1920x 1200.**



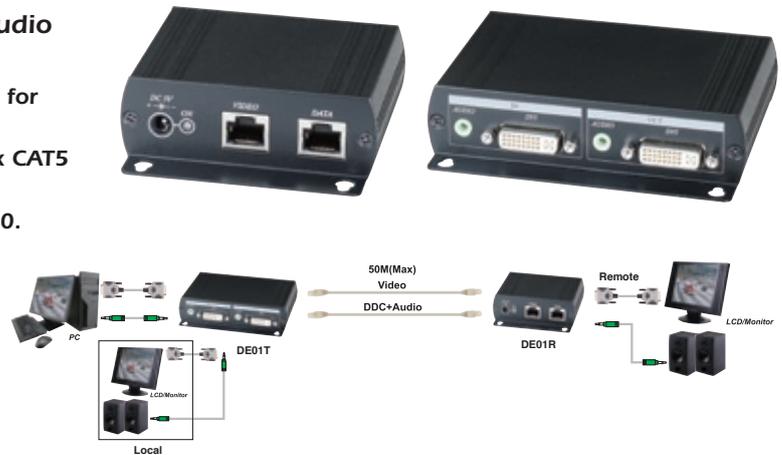
DVI CAT5 Extender

DE01

1 Input 2 Output DVI CAT5 Extender with Audio

- Extends any DVI & Audio device over CAT5E/6 cables.
- **To send DVI signal over cable only, the other cable for Audio signal.**
- **Dual output: 1 x DVI loop output for local, plus 1 x CAT5 RJ45 output for remote side.**
- **Transmission range up to 50 meters at 1920 x 1200.**
- **Support analog stereo audio: 20Hz – 20 KHz.**
- Support DDC, EDID and hot plug detection.

With Audio



DE01E

DVI CAT5 Extender over Single CAT5 Cable 25 Meters

- **Passive, no power required.**
- **Used in pairs via one CAT5E/6 cable to send DVI signal.**
- **Extend the transmission distance up to 25 meters at 1024 x 768.**
- **Extend the transmission distance up to 10 meters at 1920 x 1200.**



Economic Type

DE01ERK

DVI CAT5 Extender over Single CAT5 Cable 70 Meters

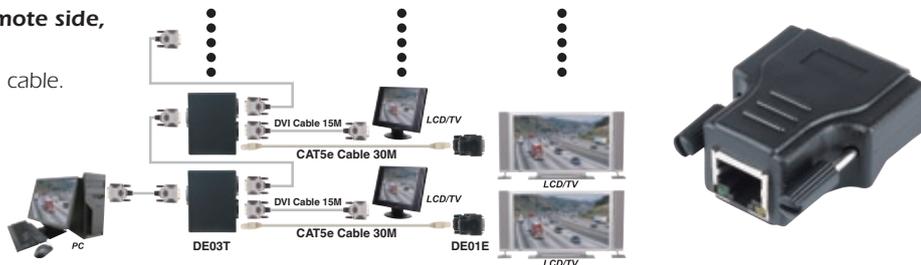
- Identical to DE01E, but with longer distance.
- No external power required.
- **Built in micro USB for external power when your DVI source not able to provide power to the receiver.**
- **Extend the transmission distance up to 70 meters at 1024 x 768.**
- **Extend the transmission distance up to 50 meters at 1920 x 1200.**



DE03

DVI CAT5 Extender & Distributor - 1 In 3 Out

- Connects a DVI video source to 3 DVI compatible displays.
- **3 outputs: 2 x DVI-D, plus 1 x CAT5 RJ45 output for remote side.**
- Each set including 1 x DE03T distributor, 1 x DE01E CAT5 receiver and 1 x 5V power adapter.
- **DE01E as DVI CAT5 receiver at remote side, range up to 30 meters.**
- Extends 15meters of input/output DVI cable.



DVI Distribution Amplifier, Switcher, Repeater, Converter

DD02A

1 Input 2 Output DVI Distribution Amplifier with Stereo Audio

- Connects up to 2 DVI displays at the same time to one video source.
- Supports high resolution PC: VGA, SVGA, XGA, SXGA, UXGA



DD04A

1 Input 4 Output DVI Distribution Amplifier with Stereo Audio

- Connects up to 4 DVI displays at the same time to one video source.
- Supports high resolution PC: VGA, SVGA, XGA, SXGA, UXGA.



DD04D

1 Input 4 Output DVI Distribution Amplifier with Digital/Optical Audio

- **Identical to DD04A, but with digital/optical audio.**



DS02A

2 Input 1 Output DVI Switcher with Stereo Audio

- Switch easily between any two DVI sources.
- Extends the range of DVI compliant device by equalizing and reclocking the DVI signal.
- Supports high resolution input:
PC: VGA, SVGA, XGA, SXGA, UXGA, WUXGA (1920 x 1200)
HDTV: 480i, 576i, 480p, 576p, 720p, 1080i and 1080p @60Hz.
- **IR remote control included.**



DVI Transmission

DS02D

2 Input 1 Output DVI Switcher with Digital Audio

- Identical to DS02A, but with digital/optical audio.



DS04

4 Input 1 Output DVI Switcher

- Switch easily between any four DVI sources.
- Extends the range of DVI compliant device by equalizing and reclocking the DVI signal
- Supports high resolution input:
PC: VGA, SVGA, XGA, SXGA, UXGA, WUXGA (1920 x 1200)
HDTV: 480i, 576i, 480p, 576p, 720p, 1080i and 1080p @60Hz.
- IR remote control included.



DS04A

4 Input 1 Output DVI Switcher with Stereo Audio

- Identical to DS04, but with stereo audio.



DS04D

4 Input 1 Output DVI Switcher with Digital Audio

- Identical to DS04, but with digital/optical audio.



DR01

DVI Repeater

- Extends digital video up to 50 meters.
- Maintains multiple high definition resolutions up to 1080p or 1920 x 1200 for computers.



DH01

DVI & Audio to HDMI Converter

- HDMI 1.2a compatible.
- Fully HDCP compliant.

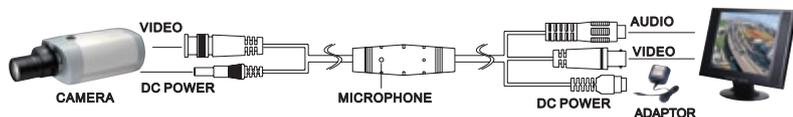


CCTV Video, Audio Distribution Amplifier

AA001

In Line Audio Pick Up Box

- Audio pick up works individually without any other equipment.
- One add-on mini audio box for all cameras which need audio function.
- High sensitive microphone (-65dB) and DC12V power regulator built-in box.



AA002

Audio Pick Up Box

- Add-on mini audio box for all cameras that require an audio function.
- High sensitivity microphone with 45cm power/audio cable.
- Easy to install and ideal for all security surveillance needs.
- DC12V power operation.



AA003

Mini Hidden Type Microphone

- One add-on mini hidden audio board for all cameras which need audio function.
- High sensitive microphone with 50cm power/audio cable.
- Easy to install and ideal for all security surveillance needs.
- DC12V power operation.

NEW

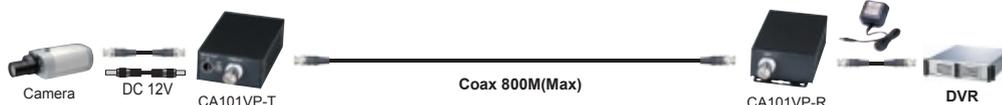


CA101VP

Video & Power over One Coax Cable 800M

- To send video and camera power over one coaxial cable.
- Transmission distance up to 800M (Max.)
- Support power input: AC 18-35V, DC 24-56V
- Support camera power up to DC12V 1Amp.
- CA101VP power adapter option model: DC24V, DC48V, DC56V
 DC24V 1.25Amp power adapter: SWP241250
 DC48V 0.83Amp power adapter: SWP480830
 DC56V 1.26Amp power adapter: SWP551260

NEW



Video & Audio Transmission

CD102

1 Input to 2 Output Video Distributor

- 1 video input to 2 video output.
- **Dual Power: DC12V / AC24V.**
- **When using multi distributors, a jumper is needed to extend power. (Max of 8 per power adapter)**
- Package includes a jumper.



CD102A

1 Input to 2 Output Video Distribution Amplifier

- 1 video input to 2 video output.
- 10dB video gain compensation amplification and HF compensation.
- Sharpness and brightness adjustment, perfect to work with DVR.
- Transmission range: 1000 meters (RG59 coaxial cable)



CD104

1 Input to 4 Output Video Distributor

- 1 video input to 4 video output.
- **Dual Power: DC12V/ AC24V**



CD108

1 Input to 8 Output Video Distributor

- 1 video input to 8 video output.



CD408

4 Input to 8 Output Video Distributor

- 4 video input to 8 video output.



CD408A

4 Input to 8 Output Video Distribution Amplifier

- 4 video input to 8 video output.
- 10dB video gain compensation amplification and HF compensation.
- Sharpness and Brightness adjustment, perfect to work with DVR.
- Transmission range: 1000 meters (RG59 coaxial cable)



CD116

1 Input to 16 Output Video Distributor in 1U Rack Mounting Panel

- 1 video input to 16 video output.



CD816

8 Input to 16 Output Video Distributor

- 8 video input to 16 video output.
- **Automatic gain control ($\pm 6\text{dB}$ range).**
- **Blue LED: video signal on/off detection at each channel.**
- 50Hz/60Hz input rejection of 60dB.
- Built in out-of-band noise filter.
- **Dual Power: DC12V / AC24V**



CD816P

Programmable 8 Input to 16 Output Video Distributor with 8 In 1 Out Switcher

- **Professional version, configurable at 8 video inputs/16 video outputs by software, jumperless for easy setting.**
- LED display and 4 buttons for setting, each operation.
- Each video input (8) could set up "1-16" video outputs.
- Built in memory function, no need resetting after power disconnection.
- **Built in 8 in 1 out Switcher function: channel number 16 including extra "switcher output" function.**
- **DWELL time adjustable at Switcher mode (1~30 seconds).**

Programmable



CD816A

8 Input to 16 Output Video Distribution Amplifier in 1U Rack Mounting Panel

- 8 video input to 16 video output.
- **Dual Power: DC12V / AC24V.**
- 10dB video gain compensation amplification and HF compensation.
- Sharpness and brightness adjustment, perfect to work with DVR.
- Transmission range: 1000 meters (RG59 coaxial cable)



CD1632A

16 Input 32 Output Video Distribution Amplifier

- 16 video input to 32 video output.
- 10dB video gain compensation amplification and HF compensation.
- Sharpness and brightness adjustment, perfect to work with DVR.
- Transmission range: 1000 meters (RG59 coaxial cable)



Video & Audio Transmission

CD1664

16 Input to 64 Output Video Distributor in 2U Rack Mounting Panel

- 16 video input to 64 video output.



CA101

1 Input to 1 Output Video Amplifier

- 1 video input to 1 video output.
- 10dB video gain compensation amplification and HF compensation.
- Sharpness and brightness adjustment, perfect to work with DVR.
- Transmission range: 1000 meters (RG59 coaxial cable)



CA101A

1 Input to 1 Output Video & Audio Amplifier

- Video & Audio Amplifier.
- Others identical to CA101



CA404

4 Input to 4 Output Video Amplifier

- 4 video input to 4 video output.
- 10dB video gain compensation amplification and HF compensation.
- Sharpness and brightness adjustment, perfect to work with DVR.
- Transmission range: 1000 meters (RG59 coaxial cable)



CA101VH

1 Input to 1 Output Video Amplifier, HF/MF/LF Compensation

- HF, MF, LF compensation for color gain and adjustable brightness & contract for cleaner, sharper looking picture.
- Built in input impedance, balance, liner gain adjustment.
- **Built in surge protection.**
- **Perfect to maintain good quality picture for long-range transmission with DVR.**
- Transmission range: 1500 meters (RG59 coaxial cable)
- Use with CA101, transmission range could up to 2KM.



CATV, AV CAT5 Extender and Distribution Amplifier

AE01

Audio CAT5 Extender – RJ45 Termination

- Gold-plated RCA female to R45.
- Used in pairs via one CAT5 UTP cable to send audio signal up to 600M.
- Passive, no power required.
- 20Hz to 20Khz Bandwidth.
- Available for 75-120ohm cable.
- High performance to eliminate audio ground loop problem.



AE01-T (TTP111A)

Audio CAT5 Extender – Terminal Termination

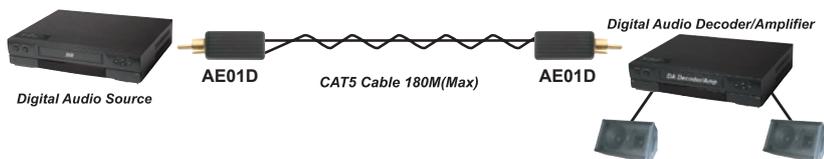
- Identical to AE01, but screw terminal termination instead of RJ45.



AE01D

Digital Audio CAT5 Extender

- Gold-plated RCA connector to screw terminal.
- Passive, no power required.
- Support Dolby® Digital, dts®
- Used in pairs via one CAT5 cable to send digital audio signal up to 180meters.



AE02

Stereo/Mini Stereo Audio CAT5 Extender

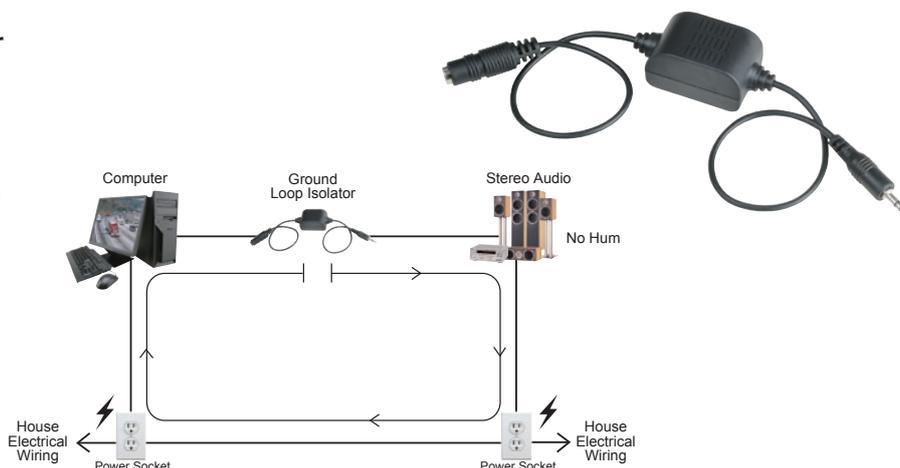
- Dual gold-plated RCA female + 3.5mm mini jack to RJ45.
- Choice of stereo audio or mini stereo audio by dip switch.
- Passive operation, no power need.
- Used in pairs via CAT5 cable to send stereo audio or mini stereo audio signal up to 600 meters.
- 20Hz to 20Khz (-3db) bandwidth.
- High Performance to eliminate the audio ground loop problem.



AE02GL

Stereo Audio Ground Loop Isolator

- Stop the hum in your speakers.
- Provides superior audio performance.
- Totally preserves your audio signal.
- Breaks the electrical ground between audio components and no path for current flow.
- Compatible with all audio components.
- Ideal for multiple amplifier installations.

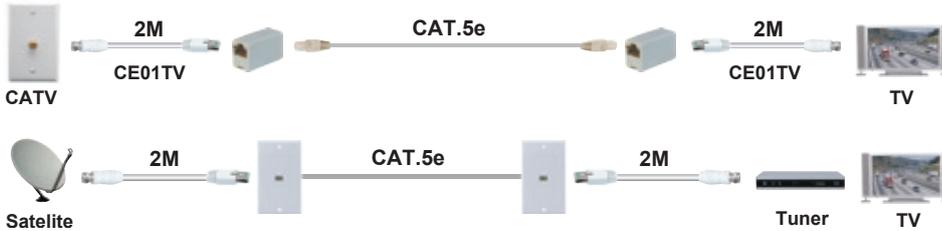


Video & Audio Transmission

CE01TV

CATV CAT5 Extender

- To send broadband CATV, VHF, VHF and FM signal over CAT5e cable.
- Shielded RJ45 male with 2M RG6 coax cable.
- Passive type, no external power required.
- **Support bandwidth 40 MHz to 2.4 GHz.**
- Max. distance up to 100M based on 40 MHz, up to 30M at 2.4 GHz.
- Work with CATV, satellite receivers, RF splitter and amplifier.
- Package includes 2 units/a pair.



CE01A

Composite Video & Audio CAT5 Extender

- 3 RCA female to RJ45 female.
- Passive, no power required.
- Used in pairs via one CAT5 cable to send video and stereo audio up to 300 meters.
- **Compatible with box type extender: CW01A**



CE02A

Dual Audio & Composite Video CAT5 Extender

- 4 RCA female to RJ45.
- Used in pairs via one CAT5 UTP cable to send dual video and audio up to 300 meters.
- Passive, no power required.
- **Perfect for intercom, two way talk application.**



CD02D

1 Input 2 Output Composite Video Distribution Amplifier with Digital/Optical Audio

- 1 x input: composite video and left, right audio.
- 2 x Output: composite video and left, right audio.
- **Cascade connection several units for larger displays with great picture quality.**



CD04A

1 Input 4 Output Composite Video Distribution Amplifier with Stereo Audio

- 1 x input: composite video and left, right audio.
- 4 x Output: composite video and left, right audio.
- **Cascade connection several units for larger displays with great picture quality.**



CS04M

4 Input 2 Output Composite Video Matrix Switcher with Stereo/Digital Audio

- Connect up to 4 A/V sources to two display monitors.
- 4 set S-Video, Composite Video, Analog Audio and Fiber Digital Audio input.
- 2 set S-Video, Composite Video, Analog Audio and Coax/Optical Digital Audio output.
- S-Video could be converting to composite video.
- Optical digital audio could be converting to coax digital audio.
- Each display can view any input independently.
- **Built in auto scan switching input function, to automatically select the next one with the signal of the input.**
- **Built in auto jump function, to automatically select the new video input.**
- Built in setup memory function.
- Built in 2 sets of 2 buttons for channel change.
- Easy to use front panel control of switching or using the included remote control.
- The switcher box is the ideal for all of devices, offering both video and audio switching capability.
- **PC Remote control option: USB, RS-232 or RS-485 terminal devices. (Order separately).**
- **Remote Control Optional Model CS04M:**
 RC01: RS232 to UART
 RC02: RS485 to UART
 RC03: USB to UART

Matrix



Component Video & Audio Transmission

Component Video Audio CAT5 Extender

YE01

Component Video (YPbPr) CAT5 Extender

- Passive, no power required.
- Used in pairs via one CAT5 cable to send component video up to 300 meters.
- Support up to HDTV (480i /480p/720p/1080i/1080p).
- Transmission distance up to 300 meters at 480i/480p.
- Transmission distance up to 100 meters at 1080p.
- Perfect for DVD, VCR, DVR, TV, Satellite receivers, monitors, home theatre and other equipments supporting component video.
- Compatible with wall plate type extender: YW01, YW02



YE01D

Component Video (YPbPr) & Digital Audio/IR CAT5 Extender

- Identical to YE01, but with digital Audio or IR pass through.
- Up to 300 meters for video and 180 meters for digital audio.
- Compatible with wall plate type extender: YW01D, YW02A



YE01A

Component Video (YPbPr) & Stereo Audio CAT5 Extender

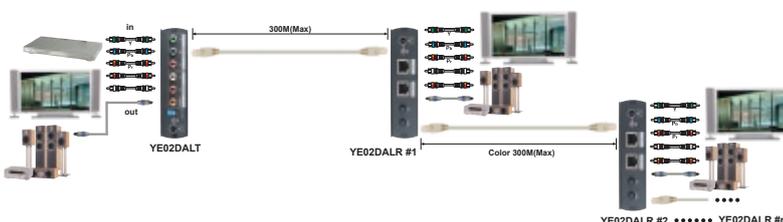
- Identical to YE01, but with stereo audio.
- Compatible with wall plate type extender: YW01A, YW02A



YE02DAL

1 In 2 Out Component Video & Stereo/Digital Audio CAT5 Extender - Chainable Function

- Dual output: 1 Component Video loop output for local, plus 1 x CAT5 output for remote side.
- Supports high resolution up to 1080p.
- Long range transmission up to 300 meters (Max.)
- Built in equalization, gain adjustment, chainable CAT5 output at remote unit.
- Audio by digital encoding process for sound undistorted.
- CAT5 receiver option model: YE02DALR, YE02DALS

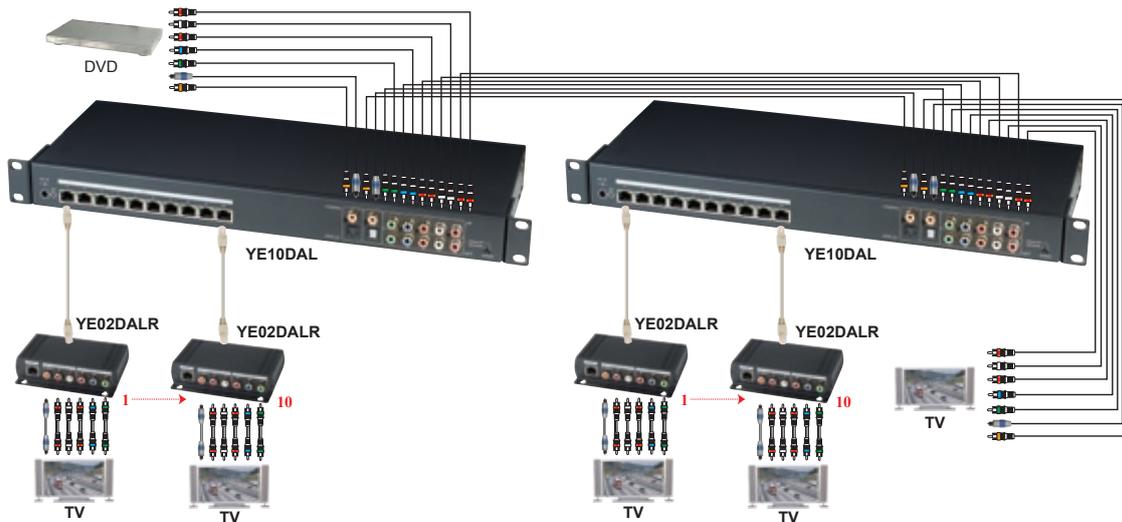


Component Video & Audio Transmission

YE10DAL

1 In 11 Out Component & Stereo/Digital Audio CAT5 Extender Distribution Amplifier in 1U Rack Mounting Panel

- Dual output: 1 Component Video loop output for local, plus 10 x CAT5 output for remote side.
- Built in one loop out allows cascading connection multi units for larger display system.
- Supports high resolution up to 1080p.
- Long range transmission up to 300 meters (Max.)
- Audio by digital encoding process for sound undistorted.
- CAT5 receiver option model: YE02DALR, YE02DALS



YE02DALR

Component Video & Stereo/Digital Audio CAT5 Receiver – Chainable Function

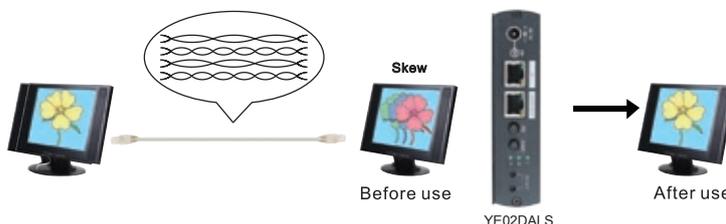
- Work with YE02DALR as receiver for extra remote component video display equipment.
- It could be daisy chained for another YE02DALR to extended working range over 300 meters and multiple displays.
- Built in equalization, gain adjustment.
- Built in LPCM 44.1K / 48K 16Bit stereo audio decode function, digital & analog audio could be output simultaneously.
- Support Dolby Digital (AC3) & DTS digital output.



YE02DALS

Component Video & Stereo/Digital Audio CAT5 Receiver– Built in Skew Corrector

- Identical to the above YE02DALR receiver, but built in skew corrector for the optimum video performance under long cable run.
- Built in chainable function.



Component Video & Audio Transmission

Component Video Distribution Amplifier, Matrix Switcher

YD02A

1 Input 2 Output Component Video Distribution Amplifier with Stereo Audio

- 1 x input: component video and left, right audio.
- 2 x Output: component video and left, right audio.
- Support 480i, 480p, 576i, 576p, 720p, 1080i, 1080p.
- Video Bandwidth up to 400Mhz.
- Cascade connection several units for larger displays with great picture quality.



YD02D

1 Input 2 Output Component Video Distribution Amplifier with Digital/Optical Audio

- Identical to YD02A, but digital/optical audio instead of stereo audio.



YD04A

1 Input 4 Output Component Video Distribution Amplifier with Stereo Audio

- 1 x input: component video and left, right audio.
- 4 x Output: component video and left, right audio.
- Support 480i, 480p, 576i, 576p, 720p, 1080i, 1080p.
- Video Bandwidth up to 400Mhz.
- Cascade connection several units for larger displays with great picture quality.



YD04D

1 Input 4 Output Component Video Distribution Amplifier with Digital/Optical Audio

- Identical to YD04A, but digital/optical audio instead of stereo audio.



YS04A

4 Input 2 Output Component Video Switcher with Stereo Audio

- HDTV Compatible at 480i/480p/720p/1080i/1080p.
- Connect up to 4 A/V sources to two display monitors.
- IR remote control included.



YS04D

4 Input 2 Output Component Video Switcher with Digital Audio

- Identical to YS04A, but with digital/optical audio instead of stereo audio.



Component Video & Audio Transmission

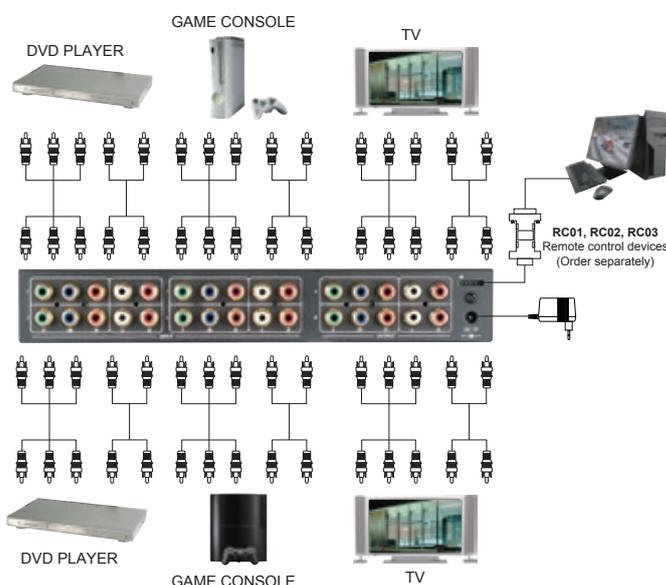
YS04MA

4 Input 2 Output Component Video Matrix Switcher with Stereo Audio

- HDTV Compatible at 480p/720p/1080i/1080p.
- Connect up to 4 AVV sources to two display monitors.
- Each display can view any input independently.
- **Built in auto scan switching input function, to automatically select the next one with the signal of the input.**
- **Built in auto jump function, to automatically select the new video input.**
- Built in setup memory function.
- Built in 2 sets of 2 buttons for channel change.
- Easy to use front panel control of switching or using the included remote control.
- **PC Remote control option: USB, RS-232 or RS-485 terminal devices. (Order separately).**
- **Remote Control Optional Model for YS04MA, YS04MD, CS04M**



- RC01: RS232 to UART
- RC02: RS485 to UART
- RC03: USB to UART



YS04MD

4 Input 2 Output Component Video Matrix Switcher with Digital Audio

- **Identical to YS04MA, but with digital audio (coax optical) instead of stereo audio.**



Component Video Converter

YH01

Component Video to HDMI Converter with Local Loop Component Output

- Convert component video (YPbPr) & stereo/digital (SPDIF) audio to HDMI display.
- **Built in local component video loop output with stereo/Digital (SPDIF) audio.**
- Encodes analog stereo audio or digital audio onto the video signal for HDMI video and audio.
- Supports HDTV resolution up to 1080p.



Wall Plate CAT5 Extender

AV, Component Video, VGA, HDMI

CW01A

Wall Plate Video & Stereo Audio CAT5 Extender

- Used in pairs via one CAT5 cable to send video and stereo audio up to 300 meters.
- Wall plate outer dimension: 115 x 71 mm.
- Passive, no power required.
- Perfect for integrated home entertainment application.
- **Compatible with box type extender: CE01A**



CW02A

Wall Plate Video & Stereo Audio CAT5 Extender

- Identical to CW01A, but wall plate outer dimension is 86 x 86 mm.
- **Compatible with box type extender: CE01A**



CW01AP

Wall Plate Video, Audio, Power CAT5 Extender

- Used in pairs via one CAT5 cable to send video, audio and power up to 300 meters.
- Wall plate outer dimension: 115 x 71 mm
- 2 x RCA female for video and audio, 1 x DC jack for power.
- Passive, no power required.
- Perfect for integrated home security and entertainment application.



CW02AP

Wall Plate Video, Audio, Power CAT5 Extender

- Identical to CW01AP, but wall plate outer dimension is 86 x 86 mm.



YW01

Wall Plate Component Video CAT5 Extender

- Used in pairs via one CAT5 cable to send component video up to 300 meters.
- Wall plate outer dimension: 115 x 71 mm
- Passive, no power required.
- **Support up to HDTV (480i /480p/720p/1080i/1080p).**
- **Transmission distance up to 300 meters at 480i/480p.**
- **Transmission distance up to 100 meters at 1080p.**
- Perfect for integrated home entertainment application.
- **Compatible with box type extender: YE01**



YW02

Wall Plate Component Video CAT5 Extender

- Identical to YW01, but wall plate outer dimension is 86 x 86 mm.
- **Compatible with box type extender: YE01**



Wall Plate CAT5 Extender

YW01D

Wall Plate Component Video & Digital Audio CAT5 Extender

- Identical to YW01, but with digital audio.
- Up to 300 meters for video and 180 meters for digital audio.
- Compatible with box type extender: YE01D



YW02D

Wall Plate Component Video & Digital Audio CAT5 Extender

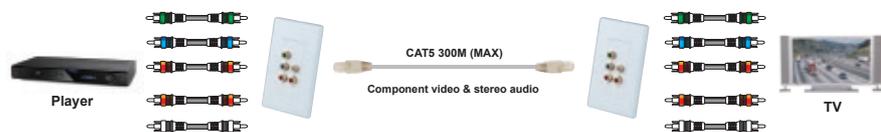
- Identical to YW01D, but wall plate outer dimension is 86 x 86 mm.
- Compatible with box type extender: YE01D



YW01A

Wall Plate Component Video & Stereo Audio CAT5 Extender

- Identical to YW01D, but stereo audio instead of digital audio.
- Compatible with box type extender: YE01A



VW01

Wall Plate VGA CAT5 Extender

- Passive device, no power required.
- Supports up to 1280x1024 pixels.
- Wall plate outer dimension: 115 x 71 mm
- Up to 135 meters via 4pairs CAT5 cable instead of VGA cable.
- Compatible with metal box type VE01P.



VW02

Wall Plate VGA CAT5 Extender

- Identical to VW01, but wall plate outer dimension is 86 x 86 mm.
- Compatible with metal box type VE01P.

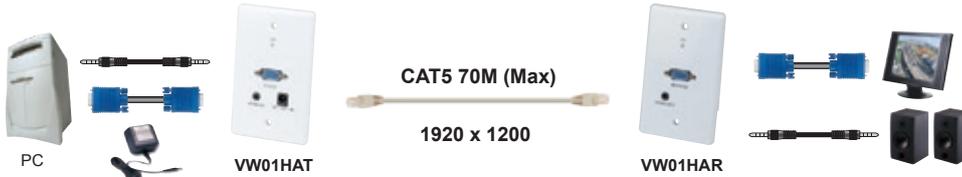


Wall Plate CAT5 Extender

VW01HA

Wall Plate Active High Resolution VGA CAT5 Extender with Stereo Audio

- Built in stereo audio. Audio by digital encoding process for sound undistorted.
- Supports high resolution up to 1920 x 1200 at 70 meters.
- External power required at transmitter unit, no power requested at receiver unit.
- Wall Plate outer dimension: 70 x 115 mm.
- Compatible with metal box type VE01HA.



VW02HA

Wall Plate High Resolution VGA CAT5 Extender with Stereo Audio

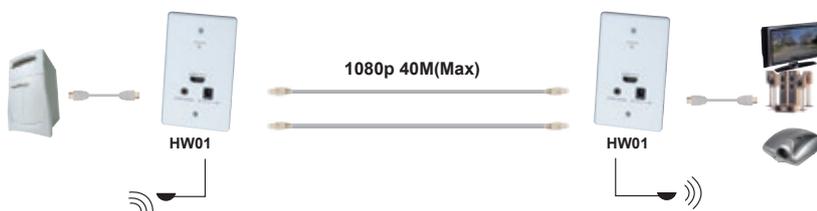
- Identical to VW01HA, but wall plate outer dimension: 86 x 86 mm for European type.
- Compatible with metal box type VE01HA.



HW01

Wall Plate HDMI & IR CAT5 Extender

- Extends HDMI and IR signal over two CAT5/5e/6 cables.
- Built in IR repeater function.
- Transmission range up to 60M at 1080i, 50M at 1080p resolution.
- HDMI 1.3a compatible, HDCP 1.1, support DDC, EDID, CEC, Hot Plug Detect.
- No power need within 30meters.
- External power supply requested at remote unit for transmission range over 30 meters.
- Wall Plate outer dimension: 70 x 115 mm.



HW02

Wall Plate HDMI & IR CAT5 Extender

- Identical to HW01, but wall plate outer dimension is 86 x 86 mm.



AV, Component Video Audio, VGA, HDMI

AD001

Video to VGA Converter

- Special designed for computer VGA monitor, LCD color monitor.
- Support NTSC, PAL video system.
- **Built in auto memory function.**
- On screen display function: Brightness, Tint, Color, Contrast.
- **Resolution: NTSC: 720 x 480 @ 60 Hz • PAL: 720 x 576 @ 50 Hz**
- PAL, NTSC auto configure.



AD001H

High Resolution Video to VGA Converter with BNC Loop Out

- Special designed for computer VGA monitor, LCD color monitor.
- **Dual output: DB15 x 1 for VGA monitor and BNC x 1 for TV monitor.**
- Support NTSC, PAL video system.
- **Input video system 50 to 60Hz frame rate detection (NTSC/PAL).**
- **The DEINTERLACED and Scan rate conversion output mode: 800 x 600, 1024 x 768, up to 1280*1024@60Hz.**
- **Frequency output: 60Hz, 75Hz, 85Hz.**
- On screen display function: Contrast, Brightness, Color, Tint, Features, Resolution.
- **Built in ESD protection.**
- **Built in video auto gain control for good quality picture.**



AD001HH

Composite Video to HDMI / VGA Scaler Converter

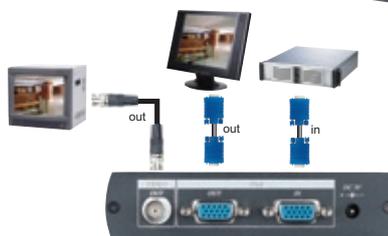
- Composite video inputs via RCA, VGA and HDMI output.
- Support NTSC, PAL video system.
- Input video system 50 to 60Hz frame rate detection (NTSC/PAL).
- The DEINTERLACED and Scan rate conversion output mode: 640x480, 800x600, 1024x768, 1280x720, 1280x1024, 1920x1080@60Hz.
- **Support HDMI output: 720P, 1080I, 1080P.**
- **Built in stereo audio input and output.**
- Frequency output: 60Hz, 75Hz, 85Hz.



VC01

VGA to Video Converter

- **Connects VGA output to existing TV or CRT monitor.**
- Video standards: NTSC/NTSC-EIAJ/PAL/PAL-M/PAL-N/SECAM.
- Resolutions support: 640 x 480 (up to 85 Hz), 800 x 600 (up to 85 Hz) and 1024 x 768 (up to 75 Hz).
- **Dual output ports: composite video (BNC connector), VGA (DB15).**
- Image controls: Horizontal and vertical size, brightness, contrast, hue, saturation, sharpness and on screen display background.



Converter

VH01

VGA to HDMI Converter with Local Loop VGA Output

- Convert VGA & stereo/Digital (SPDIF) audio to HDMI display.
- **Built in local VGA loop output with stereo/digital (SPDIF) audio.**
- **Supports PC resolution up to 1920 x 1080.**
- Support HDMI & DVI output mode.
- Encodes analog stereo audio or digital audio onto the video signal for HDMI video and audio.



YH01

Component Video to HDMI Converter with Local Loop Component Output

- Convert component video (YPbPr) & stereo/digital (SPDIF) audio to HDMI display.
- **Built in local component video loop output with stereo/Digital (SPDIF) audio.**
- Encodes analog stereo audio or digital audio onto the video signal for HDMI video and audio.
- Supports HDTV resolution up to 1080p.



HVY01

HDMI to VGA/Component with Stereo Audio Converter

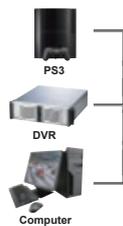
- Supports HDMI input and VGA or component with stereo audio output.
- Allows user to select between VGA or component video output.
- Supports VGA resolutions up to 1920x1080 or component video up to 1080p.
- Supports 2 channel audio output (RCA White (L) Red (R) Stereo Phone Jack 3.5mm).
- Built in auto memory function.
- On screen display function.
- HDMI and DVI compliant



HC01

HDMI to Composite Video with Stereo Audio Converter

- Converts HDMI or DVI video signals to analog composite video with stereo audio.
- Support NTSC, PAL video system.
- Support Stereo audio output.
- Supports resolutions up to 1920 x 1080@60Hz.
- HDMI and DVI compliant.



HC01



HD01

HDMI to DVI Converter

- HDMI 1.2a compatible.
- Fully HDCP compliant.
- HDMI video up to 165MHz.



DH01

DVI & Audio to HDMI Converter

- HDMI 1.2a compatible.
- Fully HDCP compliant.



SDI01

HD-SDI to HDMI Converter with Loop Out

- To send 3G/HD/SDI signal convert to HDMI.
- Support SDI (SMPTE 259M), HD-SDI (SMPTE 292M), 3G-SDI (SMPTE 424M).
- Support video signal NTSC, PAL, 720p, 1080i, 1080p.
- **Support HDMI 7.1 Channel audio.**
- Built in Equalizer to increase the working distance and signal reliability.
- SDI loop out with retiming function to have the best output quality.



SDI02

HDMI to HD-SDI Converter

- To send HDMI signal converter to 3G/HD/SDI signal
- Support video signal 480i, 576i, 720p, 1080i, 1080p.
- Support SDI (SMPTE 259M), HD-SDI (SMPTE 292M), 3G-SDI (SMPTE 424M).
- **Support audio LPCM 7.1 Channel.**



SDI03

3G/HD-SDI to HDMI/Component Video Scaler Converter

- 3G/HD/SDI signal convert to component video or HDMI selection.
- **Support up/down scaler function**
- Support SDI (SMPTE 259M), HD-SDI (SMPTE 292M), 3G-SDI (SMPTE 424M)
- Video support NTSC, PAL, 720p, 1080i, 1080p
- **Audio Support: HDMI 7.1 Channel, 2 channel analog/digital audio.**
- Built in Equalizer to increase the working distance and signal reliability.
- **SDI loop out with retiming function to have the best output quality.**



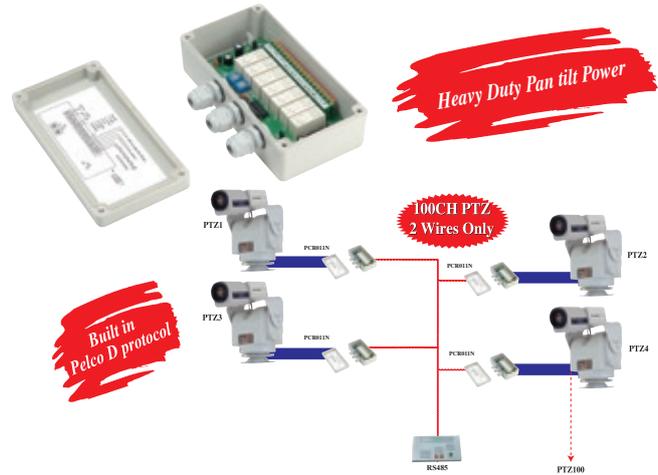
Data Transmission

PTZ Receiver, RS232/485/422 Converter, Repeater, Extender

PCR011N

PTZ Receiver

- Built in PELCO D protocol
- IP65 Weatherproof case Heavy Duty Pan-tilt power
- PAN & TILT control
- Lens control: zoom, focus
- 1 Auxiliary Relay provide for any desired functions: alarm, wash/wipers, lighting
- Easy addressed code setting. (00-99)
- Allows the pan tilt power AC110V/220V/24V, zoom lens power DC12 or 6V (2A-Max.)
- Support heavy duty Pan Tilt working power up to **16 Amp (current)**.
- Built in surge protection

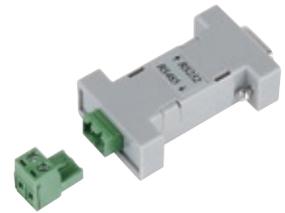


Data Converter

RS001

RS232 to RS485 Converter

- DB9 female connector for RS232 to 2 wires terminal block for RS485.
- Two wire, differential signals, half duplex.
- Non power operation.
- Auto switching baud rate, speed up to 115.2Kbps over a distance 1200 meters.
- 32 units connected together in RS-485 multi drop operation.



RS001I

RS232 to RS485 Converter - Isolation

- Identical to RS001, but built in 3KV isolation protection.
- External power adapter requested.



RS002

RS232 to RS485/RS422 Bi-Directional Converter

- RS232 input option: DB9 or RJ11.
- RS485/RS422 output option: terminal or RJ11.
- RS232 to RS485 or RS232 to RS422 conversion.
- Four full duplex wires; two half duplex wires.
- Switch setting for full duplex or half duplex operation.
- Supports transfer speeds of up to 115.2Kbps.
- Extends up to 1200 meters (under 100Kbps).
- Support up to 32 units to be set in RS-485 multi drop installations.
- Surge protection 16KV ESD.



RS003

USB to RS485 Converter

- USB to RS485 interface converter.
- Two wire, differential signals, half duplex.
- Non power operation.
- Auto switching baud rate, speed up to 115.2 Kbps over a distance 1200 meters.
- 32 units connected together in RS-485 multi drop installations.
- USB 2.0 compliant
- Powered by PC
- Connect/disconnect without reboot
- Windows 98, ME, XP & 2000, VISTA,7 compatible.
- MAC OS 8.6 to 9.2 Compatible
- Software Drivers included



RS003I

USB to RS485 Converter - Isolation

- Identical to RS003, but built in 3KV isolation protection.



RS232U

USB to RS232 (Serial) Converter

- USB to RS232 DB9 serial interface converter.
- Non power operation.
- Support RS232 transfer rate up to 115.2Kbps.
- USB 2.0 Compliant.
- Powered by PC.
- Connect/Disconnect without Reboot.
- Windows 98, ME, 2000, XP & 2003, VISTA, 7 compatible.
- MAC OS 8.6 to 9.2 Compatible.



RS005

RS232 (Serial) to TCP/IP Converter

- Three operation mode :TCP Server, TCP Client, UDP Mode
- Data Baud rate: 300 ~ 256000 bps
- Support full duplex transmission
- Auto detection network 10/100 Mbps
- Support auto MDI / MDIX



RS006

RS485 to TCP/IP Ethernet Converter

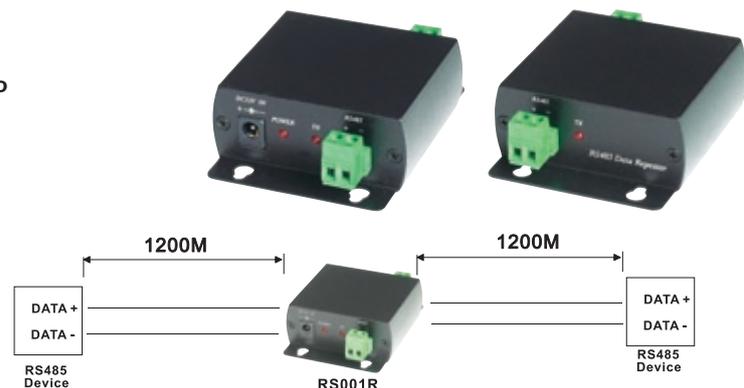
- Three operation mode :TCP Server, TCP Client, UDP Mode
- Data Baud rate: 300 ~ 256000 bps
- Distance up to 1.2KM.
- Support half duplex transmission
- Auto detection network 10/100 Mbps
- Support auto MDI / MDIX



RS001R

RS485 Data Repeater

- Repeater from RS485 data signal to RS485 up to 1200 meters.
- Plug in screw terminal block for easy wiring.
- Power input from DC jack.
- Auto detected baud rate maximum up to 115.2 Kbps.
- Red Led: Power/RX
- Built in 2.5KV isolation protection.
- Surge protection.



Data Transmission

RE01 (RS002E)

RS232 Full Duplex CAT5 Extender

- Extends RS232 data up to 2000 meters at 115.2kbps over CAT5 cable.
- Compatible with all RS-232 protocols
- Full-duplex data communication
- Speed up to 115,200 bps.
- Complete transmission of all pin RS-232C signals.
- **Transmission Signal:**
DCD, RX, TX, DTR, DSR, RTS, CTS, RI.



RS485 Data Distributor

RS004

RS485 Distributor 1 Input 4 Output

- Input option: 1 x RS232, 2 x RS485 (3 input can be "stand by" status at the same time, but only one controller will be activated at once)
- Output: 4xRS485, each channel connection range up to 1200 meters by twisted pair cable.
- Built in surge protection at each channel.
- Each input/output is isolated.
- Ability to cascade connection to other units RS004/RS008/RS016.
- The application gives serial data back on 4 outputs at the same time, to provide perfect configurations.



RS008

RS485 Distributor 1 Input 8 Output in 1U Rack Mounting Panel

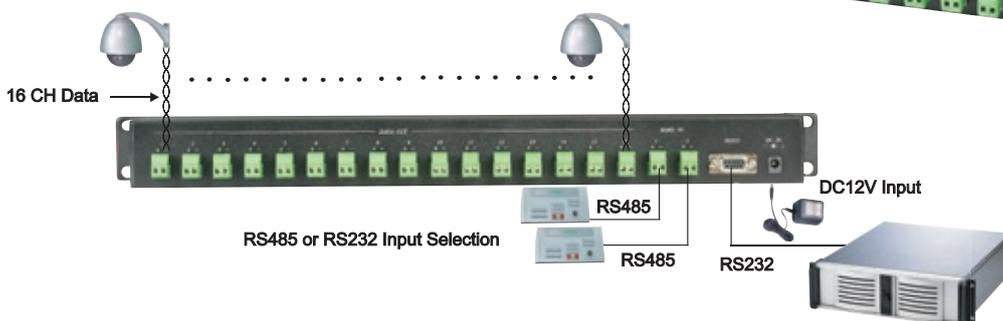
- Identical to RS004, but 1 input 8 outputs.



RS016

RS485 Distributor 1 Input 16 Output in 1U Rack Mounting Panel

- Identical to RS004, but 1 input 16 outputs.



Video, Power, Data, Network, PoE, HD-SDI, HDMI

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

SP001

Coaxial Video Surge Protector BNC Connector

- BNC male to BNC female, high frequency for CCTV use.



SP001P-AC110

AC Power Surge Protection Device Terminal Connector

- Terminal connector to terminal connector.
- Application for protecting AC100-120V
- Surge current capacity: 6000A (8x20uS)
- Surge voltage capacity: 6,000V (1.2uS x 50uS)



SP001P-AC220

AC Power Surge Protection Device Terminal Connector

- Terminal connector to terminal connector.
- Application for protecting AC220-240V.
- Surge current capacity: 6000A (8x20uS)
- Surge voltage capacity: 6,000V (1.2uS x 50uS)



SP001P

Power Surge Protector

- 2 pin terminal for power input to 2 pin terminal for power output.
- Max power input AC40V(MAX),DC56V(MAX).
- Application for protecting camera power.
- Max current up to 2Amp.



SP001VP

Video & Power Surge Protector

- Two stage protection: 130V, AC/DC12V.
- 3 pin terminal + BNC male to 2 pin terminal + BNC female.
- Max power input AC40V(MAX),DC56V(MAX).
- Max current up to 2Amp.



SP001VPD

Video, Power, Data Surge Protector

- Identical to SP001VP, but with Data protection.
- 5 pin terminal + BNC male to 4 pin terminal + BNC female.
- Max power input AC40V(MAX),DC56V(MAX).
- Max current up to 2Amp.
- Perfect for PTZ camera protection.



SP002

Coaxial Surge Protector F Connector

- F male to F female, high frequency for CCTV use.



Surge Protector

SP003

UTP Video Surge Protector RJ45 Connector

- RJ45 Jack to RJ45 Jack.
- Two pairs protection (Blue pair and Brown pair).
- Protects UTP twisted pair transmission products.



SP004

UTP Data Surge Protector Terminal Connector

- Terminal connector to terminal connector.
- Perfect for video or data signal protection.



SP004VPD

UTP Video, Power, Data Surge Protector

- Terminal connector to terminal connector.
- Application for UTP cabling video, power, data protection.
- Could be two data, one power for access control application.



SP005

Video & Data Surge Protector

- BNC female + terminal to BNC female + terminal
- Perfect for speed dome camera & control signal.



SP006

Network Surge Protector

- Perfect for IP camera, network, PC modem, server... protection.
- Protects CAT5 VGA extender series products (VE01A, VE02AL) or any computer equipments.



SP006P

PoE Surge Protector

- RJ45 Jack to RJ45 Jack
- Power and signal line protection.
- 10/100 Base-T CAT5/CAT5e compatible.
- Support Mid-Span PoE and End Span PoE.
- 802.3af and 802.3at PoE (Power over Ethernet) compatible.
- Application for PoE (Power over Ethernet) protection.



SP007

HD-SDI Surge Protector

- BNC male to BNC female.
- Provide protection for HD CCTV, broadcasting devices.
- SDI transmission rate: 270M ~ 2.97G
- Resisting Surge: 8KV (Max)
- Discharging Current: 10KA (Max)
- Reaction Speed: <1nS.



SP007L

HD-SDI Surge Protector for HD-SDI DVR

- Identical to SP007, but with 10cm HD coax cable for easy mounting behind DVR and reduce video loss.



SP008

HDMI Surge Protector

- Provide protection for HDMI equipments.
- Support HDMI 1.4, 3D, ARC
- Support HDCP.



16 Channel Surge Protection in 1U Rack Mounting Panel

SP016C

16 Channel Video Surge Protection for DVR in 1U Rack Mounting Panel

- For coaxial cable use, 16 BNC female to BNC female.
- Provide protection for DVR, multiplexers or any equipment with multiple video inputs.



SP016T

16 Channel UTP Surge Protection for DVR in 1U Rack Mounting Panel

- For twisted pair cable use, 16 terminal connector to 16 terminal connector.
- Ideal for 16 channel video or data protection.



SP016N

16 Channel Network Surge Protector for NVR in 1U Rack Mounting Panel

- Provide protection for NVR, network, PC modem, server or any computer equipment with multiple inputs protection.



SP016P

16 Channel PoE Surge Protector for PoE Switch in 1U Rack Mounting Panel

- Protect 16 channel PoE switch (Power over Ethernet).
- 10/100 Base-T CAT5/CAT5e compatible.
- Support Mid-Span PoE and End Span PoE.
- 802.3af PoE compatible.



Solution Provider for Video Interference

Video Ground Loop Isolator

Video ground loop isolator could reduce “ground loop interference” with CCTV signals and can be easily installed in a new or added to existing systems. It is useful where a video signal is transmitted via cable between points with different ground potentials, the differences in ground potentials are typically caused by unbalanced power line loads.

GL001

Coaxial Video Ground Loop Isolator

- Prevents video-signal distortion caused by video ground loops.
- Eliminates picture tearing, cross talk and rolling.
- Prevents power cables laid by others interfering with the CCTV system.
- Built in TVS (Transient Voltage Suppressors) for surge protection.



GB001

Coaxial Video Ground Loop Isolator Built in Video BALUN

- Identical to GL001 ground loop isolator function.
- Built in video BALUN, perfect to work with DVR to immunity DVR interference, for extra interference rejection.



TGP001

Twisted Pair Ground Loop Isolator Built in Video BALUN

- BNC male to 2 pin terminal block.
- Prevents video-signal distortion caused by video ground loops.
- Eliminates picture tearing, cross talk and rolling.
- Prevents power cables laid by others interfering with the CCTV system.
- Transmit a full video signal up to 300 meters.
- Eliminate coaxial cable.



GL001H

High Performance Video Ground Loop Isolator

- High Performance to eliminate ground loop problem.
- Low video loss, bandwidth: 20Hz- 6MHz. +0/-3dB.



TGP001H

Twisted Pair High Performance Video Ground Loop Isolator

- Identical to GL001H, but for twisted pair cable use.



Before use



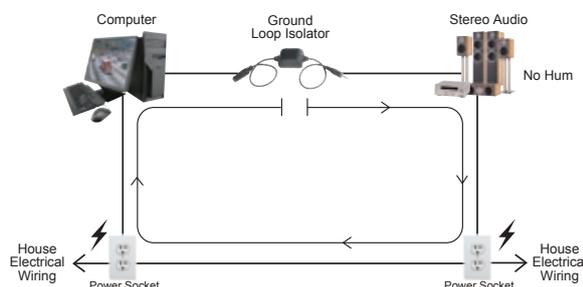
After use



AE02GL

Stereo Audio Ground Loop Isolator

- Stop the hum in your speakers.
- Provides superior audio performance.
- Totally preserves your audio signal.
- Breaks the electrical ground between audio components and no path for current flow.
- Compatible with all audio components.
- Ideal for multiple amplifier installations.



Video Transformer Filter

"Impedance not matching" happened under long range cabling, or weak and strong differential signals into DVR would cause Video SYNC signal not balanced that results in picture "up-rolling". For coaxial cabling, add CB001VH (coaxial BALUN) for extra interference rejection; for twisted pair cabling, add TVB001.

CB001VH

Coaxial BALUN for DVR

- Perfect work with DVR to immunity DVR interference.
- 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...



TVB001

Twisted Pair Video BALUN

- Eliminate interference under long range cabling caused by "Impedance Matching", add TVB001 BALUN at "connecting point" between two-wire connections for compensation.
- Including 4 pieces UY connectors for connection.



Before use



After use

High Frequency Interference Blocker

Block the interference from electromagnetic wave, high voltage electricity, wireless station, elevators, heavy power on industry,...etc

CHB001H

High Frequency Interference Blocker (CHB001HT+CHB001HR)

- Perfect to eliminate High Frequency interference.
- Video & Audio over one Coax Cable.
- Working distance: 400 meters (RG59), 600 meters (RG6U).
- S/N Ratio on video signal: 42dB, S/N Ratio on audio signal: 40dB.
- CHB001HT Transmitter built in power output for camera use.
- Including transmitter and receiver, two power adapter.



CHB001HT



CHB001HR



Before use



After use



Before use



After use

VKM03

VGA Interference Blocker (VKM03T+VKM03R)

- To eliminate the VGA noise caused by installation environment, especially for elevator application
- Extend VGA, stereo audio, RS232, IR and USB signals over one CAT5e/CAT6 cable.
- Supports up to 1920 x 1080.
- Transmission range up to 140 meters over CAT5e, 180M over CAT6.



HE03L

HDMI Interference Blocker (HE03LT+HE03LR)

- To eliminate the HDMI noise caused by installation environment, especially for elevator application.
- Extends HDMI signal over one CAT5e/6 cable.
- Support up to 1920 x 1080 @60hz
- Transmission range up to 150M over CAT5e, 180M over CAT6.
- Plug and play for easy operation.



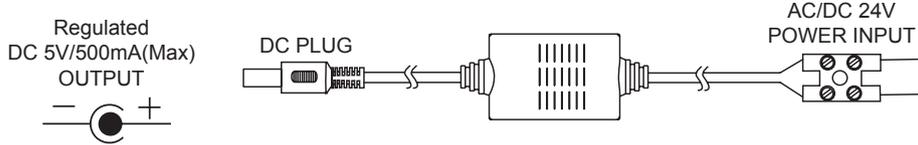
Power Center

Power Converter & Distributor Box

PC500

AC to DC 12V Power Converter 500mA

- AC to DC 12V Power Converter with DC plug cable 500mA Max.
- Input power: AC15~26V; DC15~28V.
- Output Power: DC12V regulated.
- For DC type camera or video power sources convert using AC24V for professional CCTV industry installation.



PC500S

AC to DC 12V Power Converter 500mA Built in Surge Protection

- Identical to PC500, but built in surge protection at power input.



PC500-5V

AC to DC 5V Power Converter 500mA

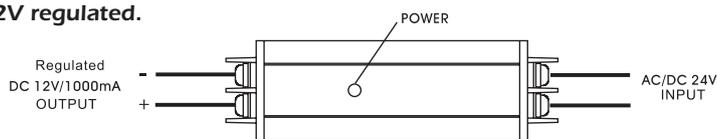
- AC24V/ DC12V to DC5V power converter with DC plug cable 500mA Max.
- Input power: AC8~26V; DC8~28V
- Output Power: DC5V regulated.
- Application for sending computer accessories 5V power from power sources AC24V or DC12V.



PC1A

AC to DC 12V Power Converter 1000mA

- Identical to PC500, but with 1000mA max.
- Input power: AC18~26V; DC18~28V.
- Output Power: DC12V regulated.



PC1A-5V

AC to DC 5V Power Converter 1000mA

- AC24V/DC12V to DC5V power converter.
- Input power: AC8~26V; DC8~28V
- Output Power: DC5V regulated.
- Application for sending computer accessories 5V power from power sources AC24V or DC12V.



PD009

1 Input to 9 Output Power Distributor Box

- Individually protected PTC*-type output fuse rated 1.1Amps@250VAC.AC to DC 12V.
- Individual status LED indicators.
- Surge protected outputs.
- Supports up to 1-30VAC/VDC



Power Adapter

SWP051000

DC5V 1A Switching Power Adapter

- 90V-240 VAC input, 5VDC 1A regulated output.



SWP052000

DC5V 2A Switching Power Adapter

- 90V-240 VAC input, 5VDC 2A regulated output.



SWP12500

DC12V 0.5A Switching Power Adapter

- 90V-240 VAC input, 12VDC 0.5A regulated output.



SWP121000

DC12V 1A Switching Power Adapter

- 90V-240 VAC input, 12VDC 1A regulated output.



SWP121500

DC12V 1.5A Switching Power Adapter

- 90V-240 VAC input, 12VDC 1.5A regulated output.



SWP124200

DC12V 4.2A Switching Power Adapter

- 90V-240 VAC input, 12VDC 4.2A regulated output.
- Desktop type.



SWP241250

DC24V 1.25A Switching Power Adapter

- 90V-240 VAC input, 24VDC 1.25A regulated output.



SWP480830

DC48V 0.83A Switching Power Adapter

- 90V-240 VAC input, 48VDC 0.83A regulated output.
- Desktop type.



SWP551260

DC56V 1.26A Switching Power Adapter

- 90V-240 VAC input, 56VDC 1.26A regulated output.
- Desktop type.



Rack Panel Mounting and Wall Mounting

PR1008-5R

10 Amp 8 Port DC5V Regulated Power Supply in 1U Rack Mounting

- 10 AMP Eight port power supply, AC120V/230V to DC5V Switching regulated output.
- Each port output current 2 Amp (Max).
- Built in "no fuse breaker" to avoid current overload.
- Built in PTC (positive temperature coefficient) for short protection and auto rework on each port.



PR801

8 Amp 1 Port AC24V Power Supply in 1U Rack Mounting Panel

- 1 port power supply. AC120/230V to AC24V / 8A (Max) output.
- Built in "no fuse breaker" to avoid current overload.
- Toroidal transformer for high efficiency and low operating temperature.



PR801-12R

8 Amp 1 Port DC12V Regulated Power Supply in 1U Rack Mounting Panel

- 1 port power supply, switching regulated DC12V.

PR816

8 Amp 16 Port AC24V Power Supply in 1U Rack Mounting Panel

- 16 port power supply, AC120V/230V to AC24V /0.5A (Max) output.
- Each port output current 1.1Amp (Max).
- Built in "no fuse breaker" to avoid current overload.
- Built in PTC (positive temperature coefficient) fuse for short protection and auto rework on each port.
- Toroidal transformer for high efficiency and low operating temperature.

PR816-12D

8 Amp 16 Port DC12V NON-Regulated Power Supply in 1U Rack Mounting Panel

- 16 port power supply, AC120V/230V to DC12V(non-regulated) /0.5A (Max) output.
- Each port output current 1.1Amp (Max).
- Built in "no fuse breaker" to avoid current overload.
- Built in PTC (positive temperature coefficient) for short protection and auto rework on each port.
- Non-load output 17V.

PR816-12R

8 Amp 16 Port DC12V Regulated Power Supply in 1U Rack Mounting Panel

- 8 AMP Sixteen port power supply, AC120V/230V to DC12V Switching regulated output.
- AC120V/230V to DC12V Switching regulated output.
- Each port output current 1.1Amp (Max).
- Built in "no fuse breaker" to avoid current overload.
- Built in PTC (positive temperature coefficient) for short protection and auto rework on each port.



PR1616-12R

16 Amp 16 Port DC12V Regulated Power Supply in 1U Rack Mounting Panel

- Identical to PR816-12R, but 16 AMP Sixteen port power supply.
- Built in fan at front and back panel each for low operating temperature.



PW408U

4 Amp 8 Port DC12V Regulated Power Supply Built in 3Amp Back up Battery

- Built in 12V 3.3Amp rechargeable sealed lead acid battery for power back.
- Wall mounting metal box
- Automatic switch over to stand-by battery when AC fails.
- LED color indication on Battery: Green: battery full, Yellow: battery recharging, Red: loss of AC, stand-by battery supplying power, Flash Red: low battery.
- Application for Access Control.

Built in 3A
Back up Battery

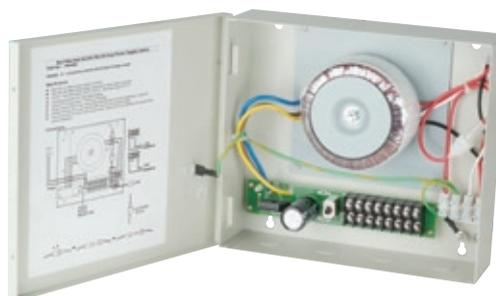


PW408S

4 Amp 8 Port Dual Power Supply

- Dual power AC24V or DC12V selectable.
- Red LED for main power.
- Individual PTC 1.1Amp, (2.5A/4sec.) fuse on each output protection.
- Toroidal transformer for high efficiency and low operating temperature.
- Wall mounting metal box
- Overall Dimension: 224 x 200 x 60 mm

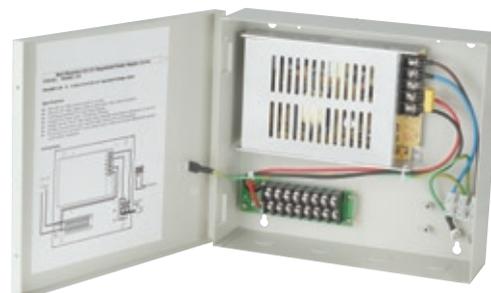
Dual Power



PW408S-12R

4 Amp 8 Port DC12V Regulated Power Supply

- Identical to PW408S, but with DC12V switching regulated power supply.



PW816S-AC24

8 Amp 16 Port AC24V Power Supply

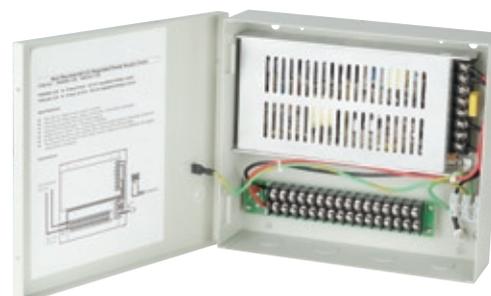
- AC24V , 8Amp 16 port
- Red LED for main power.
- Individual PTC 1.1Amp, (2.5A/4sec.) fuse on each output protection.
- Toroidal transformer for high efficiency and low operating temperature.
- Wall mounting metal box
- Overall Dimension: 224 x 200 x 60 mm



PW816S-12R

8 Amp 16 Port DC12V Regulated Power Supply

- Identical to PW816S-AC24, but with DC12V switching regulated power supply.



Accessories

Wire

WC414

4 BNC Male to 4 BNC Male Cable 100cm

- Ready made coax for quick installation, good for receiver side
TTP414V,TPP016,TPA008, TPA016...etc.



WC414-200

4 BNC Male to 4 BNC Male Cable 200cm

- Identical to WC414, but 200 cm cable length.



WC111-30

BNC Male to BNC Male RG59 Cable 30cm

- Order by MOQ.



WC101-30

BNC Male to BNC Female RG59 Cable 30cm

- Order by MOQ.

Tool

AT001

Twisted Pair Tool Kit

- Standard package include: ratchet modular connector crimping tool
crimping tool , for 6P2C, 8P8C modular connectors stripper & punch down
tool ,universal coaxial crimping tool, RJ45 modular plug (8P8C round solid)
x 50pcs, RJ45 protection cap x 20pcs
- Application: everything installers need for identifying, cutting, stripping and
terminating twisted pair cable.



AT002

Remote Cable Tester

- Connector: RJ45, USB, BNC (CAT5/CATV/Cablemodem)
- LEDES indications:
 - Short LED (Red)
 - Connected/25ohms terminator (Green)
 - No-Parallel /50ohms terminator (Yellow)
 - No connection / No termination (Yellow)
 - Battery good / Battery low (Green/Yellow)
 - S, C/1,2,3,4,5,6,7,8, LEDES (Yellow)



AT005

Modular Crimping Tool

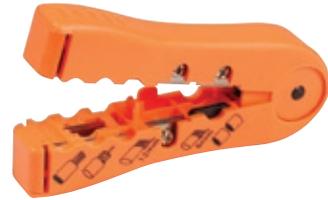
- For 4,6,8 poles modular connector (RJ45, RJ22) ratchet type.
- This tool is for all necessary tools to cut, strip and crimp modular telephone wires.



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.



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.



AT008

Coaxial Crimping Tool

- Application for crimping RG59, RG6 cable.



AT009

Coaxial Tool Kit

- Standard package include:
 - Rotary cable stripper for coaxial cable RG58,59,6,62
 - Coaxial cable cutter 6.5" 1 cuts wire O.D. up to 0.41" (10.5mm)
 - Professional ratchet type crimping tool for coaxial connector RG58,59.6
 - BNC male crimp 3 piece type x 20 pieces
- Application: everything installers need for cutting, stripping and terminating coaxial cable.



Accessories

AT012

Compression Tool for APBC01 Compression Connector

- Application for crimping RG59, RG6 , F, RCA, waterproof connectors



Parts

AP001

Modular RJ45 Plug (3Prongs)

- 8 position 8 contact round solid
- 100 pieces in one bag.



AP002

RJ45 Protection Cap

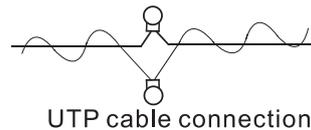
- Provide 5 color for easy identification.
- Red, green, yellow blue, grey 20pcs of each color in one bag (total 100pcs)



AP007

3M Brand UY Connector

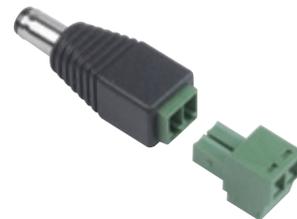
- Handle 22 to 26AWG solid copper wire (100piece/box)
- Self-stripping, insulated and moisture – resistant butt connector for 2 wire solid copper conductor combinations for 22-26 AWG (0.65-0.4mm) having maximum insulation O.D. of 060 inches (1.52mm).



AP008

DC Plug to Terminal Block

- DC plug (male) to removable terminal block.
- Small size for tight spaces.
- 2.1mm DC plug.
- 10 pieces in one bag.



AP008-F

DC Jack to Terminal Block

- Identical to AP008, but with DC Jack (female) instead of Terminal block.



Connectors (Pack: 100pcs/Per Bag)

APBC01

BNC/HD-SDI Compression
Waterproof

RG6U

RG59



APBT11

BNC Male Twist On

RG6U

RG59



APBC13

BNC Male Crimp 3 Piece
Type

RG6U

RG59



APBC13-SDI

BNC /HD-SDI Male Crimp 3 Piece
Type

RG6U

High quality
HD-SDI

RG59



APB012

BNC Male Solderless



APBC12

BNC Male Quick Crimp



RG6U

RG59

APB310

BNC Male to T Adapter
BNC Female



APBR01

BNC Female to RCA Male



APBR10

BNC Male to RCA Female



APBR11

BNC Male to RCA Male



APFT11

F Male Twist on

RG6U

RG59



APFC12

F Male Crimp Two Piece
Type

RG6U

RG59



APBF10

BNC Male to F Female



APBB00

BNC Female to BNC
Female



AP009

DC Plug to Strip End
Power Cord 15cm



AP009-F

DC Jack to Strip End
Power Cord 15cm



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SDIVP	19	TPA016AH	8	TTP111VPK	3	YD02D	46
SDIVPD	19	TPN002	11	TTP111VPK-T	3	YD04A	46
SP001	57	TPN002-IP	15	TTP111VP-LK	4	YD04D	46
SP001P	57	TPN009	9	TTP111VT	1	YE01	44
SP001P-AC110	57	TPN012C	9	TTP111VTS	1	YE01A	44
SP001P-AC220	57	TPN012-C	9	TTP414V	4	YE01D	44
SP001VP	57	TPN012T	9	TTP414VD	4	YE02DAL	44
SP001VPD	57	TPN012-T	9	TTP414VH	4	YE02DALR	45
SP002	57	TPP016	5	TTP444VPD	4	YE02DALS	45
SP003	58	TPP016D	5	TVB001	61	YE10DAL	45
SP004	58	TPP016GB	5	UE01	28	YH01	47/52
SP004VPD	58	TPP016-RJ45	5	UE02	29	YS04A	46
SP005	58	TPP016VPD	10	UE03	29	YS04D	46
SP006	16/58	TRA111VH	9	UE04H	28	YS04MA	47
SP006P	16/58	TRN012	9	VC01	33/51	YS04MD	47
SP007	19/58	TRP414VH	9	VD04A	31	YW01	48
SP007L	19/59	TTA111AV	6	VE01(TTA111VGA)	30	YW01A	49
SP008	26/59	TTA111VA	6	VE01H	30	YW01D	49
SP016C	59	TTA111VEA-960H	6	VE01HA	30	YW02	48
SP016N	16/59	TTA111VH	7	VE01P	30	YW02D	49
SP016P	16/59	TTA111VHA	7	VE01R(TTA111VGAR)	31		
SP016T	59	TTA111VPDR	11	VE01S(VD02)	30		
SR01	13/28	TTA111VRA	7	VE02(VD102)	31		
SR02	18	TTA414VPDR	11	VE02DALS	32		
SR02E	18	TTA414VRA	7	VE02AL	31		
SWP051000	63	TTP111AV	2	VE02ALR	32		
SWP052000	63	TTP111V	1	VE05(VD105)	31		
SWP121000	63	TTP111VCT	1	VE05AL	32		
SWP121500	63	TTP111VE	1	VE10DAL	32		
SWP124200	63	TTP111VEL	1	VH01	33/52		

