

1CH Power & HD Video UTP Transceiver – TVI, CVI, AHD, CVBS

Model: AAS-VHP-110RJK = VHP-110RJM + VHP-110RJF as a kit

VHP-110RJM = DC Male Site

VHP-110RJF = DC Female Site



The 1CH Power & HD Video UTP Transceiver device is a passive (non-amplified) video balun that allows transmission of real-time HD TVI/CVI/AHD/CVBS video and low voltage power over UTP cable. This product is used in pairs. Both pieces include BNC-M and RJ45 jacks for video signals, and DC male plug for power input/output. In addition, one piece of the pair features a female DC plug to connect the power supply.

Features

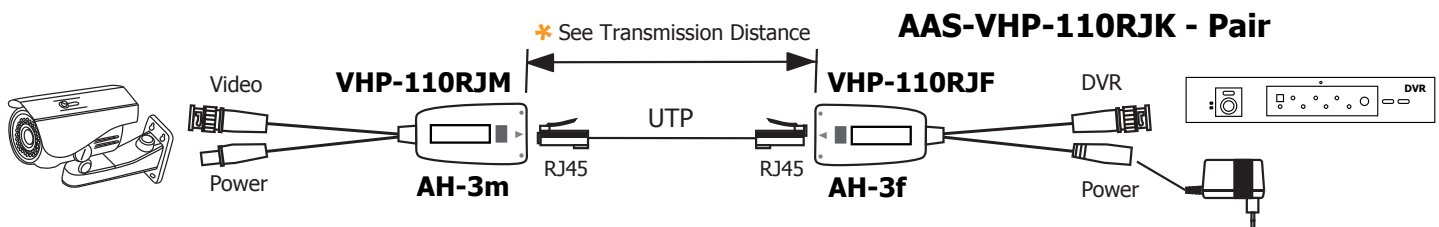
- Transmits video and provides camera power simultaneously
- HD TVI / CVI / AHD / CVBS 4 in 1 Compatible design
- Recommended transmission distance:
 - 1) HD TVI 720p: 250m/820ft ; HD TVI 1080p: 120m/400ft
 - 2) CVI 720p: 250m/820ft ; CVI 1080p: 120m/400ft
 - 3) AHD 720p: 250m/820ft ; AHD 1080p: 120m/400ft
 - 4) CVBS: 300m/1000ft
- Suitable reliability & surge protection
- DC loop output; extensible power output

Package Contents

1. One (1) 1CH Power (DC Male) & HD Video UTP Transmitter
2. One (1) 1CH Power (DC Female) & HD Video UTP Receiver

For any returns, please include all components listed above with original packaging in **Resalable Condition**. **Absolutely No Returns** will be accepted if any component is missing/damaged.

Application Diagram



Installation

1. Make sure any signal source (camera) and/or monitor/DVR are turned off during installation.
2. Check network cables and any other cables being used.
3. Connect monitor or DVR/power supply VPH-110RJF, connect camera with VPH-110RJM.
4. Check whether installation is good and power the device(s).

Specification

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Model		AAS-VHP-110RJK
Function	Channels	1 CH (Video + Camera Power)
	Transmission Distance	0~300m / 0~1000ft
Video & Connectors Properties	Video Connector	BNC- M / 75 Ω
	UTP Connector	RJ45
	Compatibility	HD TVI, CVI, AHD, CVBS Video
	Signal Transmitting Band	0~70MHz
	Interference Rejection	>60dB
Power	Power Connector	2.1mm / 5.5mm DC Jack
	UTP Cable Connector	RJ45
	Voltage Range	12V ~36V DC
	Maximum Current	1A
Protection	ESD	Contact Discharge: 6KV Air Discharge: 8KV per: IEC61000-4-2
	Surge	2KV (differential-mode), 4KV (common-mode) per: IEC61000-4-5
Environmental	Operation Temperature	0°C~55°C / 32°F~131°F
	Storage Temperature	-40°C~85°C / -40°F~185°F
	Relative Humidity	0~95% (non-condensing)
Physical Properties	Color	Black
	Material	ABS Engineering Plastic
	Size	65 x 36 x 23mm / 2.56 x 1.42 x 0.91 inches Cable Length: 60mm / 2.36 inches

*Specifications are subject to change without notice

Voltage Drop According to Transmission Distance

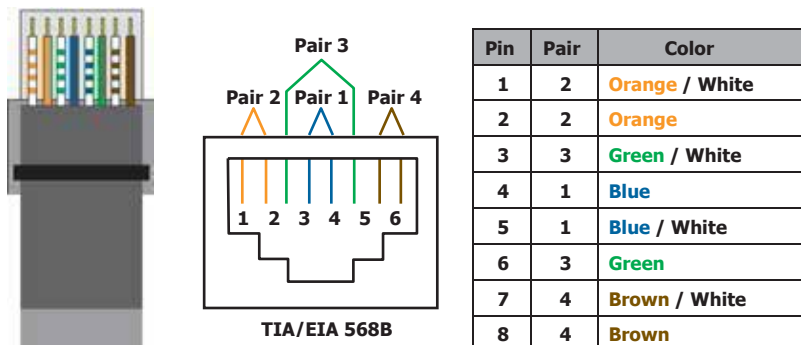
Transmission Distance	Transmission Voltage (Output 12VDC/0.3A)	Transmission Voltage (Output 12VDC/0.5A)	Transmission Voltage (Output 12VDC/1A)
50m / 150ft	13V	13.7V	15.5V
100m / 300ft	14V	15.5V	18.7V
150m / 500ft	15V	17V	22V
200m / 650ft	16V	18.7V	25.5V
250m / 800ft	17V	20.5V	28.7V
300m / 1000ft	18V	22V	32V

Troubleshooting

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If the equipment fails, follow the methods below to troubleshoot.

- Make sure equipment installation is according to the manual.
- If RJ45 is chosen, make sure both ends of UTP cable are the same (both 568A or both 568B).
- If green terminal block is chosen, make sure the same colored cable are in the same pin.
- Maximum transmission distance depends on the quality of the signal source and the transmission cable. Do not exceed the equipment maximum transmission distance.
- Check whether connection is correct. Charge the device when there is no image.
- Replace device to see if failed device is defective.



LIMITED ONE (1) YEAR WARRANTY AND EXCLUSIONS

Manufacturer warrants to the original consumer purchaser and not for the benefit of anyone else that this product at the time of its sale by Manufacturer is free of defects in materials and workmanship under normal and proper use for one (1) year from the purchase date. Manufacturer's only obligation is to correct such defects by repair or replacement, at its option, if within such one (1) year period the product is returned prepaid, with proof of purchase date, and a description of the problem. This warrant excludes and there is disclaimed liability for labor for removal of this product or reinstallation. **This warranty is voided if this product is installed improperly or in an improper environment, overloaded, misused, opened, abused, or altered in any manner, or is not used under normal operating conditions or not in accordance with any labels or instructions. There are no other implied warranties of any kind, including merchantability and fitness or a particular purpose, but if any implied warranty is required by the applicable jurisdiction, the duration of any such implied warrant, including merchantability and fitness of or a particular purpose, is limited to one (1) year. Manufacturer is not liable for incidental, indirect, special, or consequential damages, including without limitation, damage to, or loss of use of, any equipment, loss sales or profits or delay or failure to perform this warranty obligation.** The remedies, provided therein are the exclusive remedies under this warranty, whether based on contract, tort or otherwise.

	CAUTION RISK OF ELECTRIC SHOCK DO NOT OPEN!	
TO REDUCE THE RISK OF ELECTRICAL SHOCK, DO NOT OPEN COVERS (OR BACK). NO USER SERVICEABLE PARTS INSIDE. REFER SERVICING TO QUALIFIED SERVICE PERSONNEL.		



Disposal of Old Electrical & Electronic Equipment (Applicable in the European Union and other European countries with separate collection systems).

This symbol on the product or on its packaging indicates that this product shall not be treated as household waste. Instead it shall be handed over to the applicable collection point for the recycling of electrical and electronic equipment. By ensuring this product is disposed of correctly, you will help prevent potential negative consequences for the environment and human health, which could otherwise be caused by inappropriate waste handling of this product. The recycling of materials will help to conserve natural resources. For more detailed information about recycling of this product, please contact your local city office, your household waste disposal service or the shop where you purchased the product.

 **Caution**

This product has been tested for conformance to safety regulations and requirements. However, like all electronic equipment, this product should be used with care. Please read and follow the safety instructions to protect yourself from possible injury and to minimize the risk of damage to the unit.

1. Handle this product with care

Avoid any shock or bumping of the product. Improper handling could damage the product. Do not handle the unit with wet hands. Provide proper ventilation and air circulation and do not use near water.

2. Requires a proper operating environment

This product is not waterproof and is designed for indoor use. The allowable temperature range for operation of this product is between 0°C~55°C / 32°F~131°F.

3. Check the power source voltage

The power source voltage should be within the specified range. (Product must meet the specifications).

4. Objects and liquid entry

Never push objects of any kind into this product as this may touch dangerous voltage points of short out parts that could result in a fire or electric shock. Never spill any kind of liquid on the product.

5. Cleaning

Do not use liquid or aerosol cleaners to clean this unit. Always unplug the power to the device before cleaning.

6. Servicing

Do not attempt to service this product by yourself as opening or removing covers may expose you to dangerous voltage or other hazards. Refer all service to qualified servicing personnel.



MADE IN CHINA