



ATLONA

COMPONENT VIDEO WITH STEREO AUDIO EXTENDER

MODEL: AT-COMP150SR

USER'S MANUAL



REV.1004

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INTRODUCTION

Atlona Technologies AT-COMP150SR can easily extend component (YPbPr) or composite (CVBS) video with stereo audio over only one CAT5/6 cable. The AT-COMP150SR lets you extend signals to cover the distance up to 330m (1,000ft). The devices are composed of a transmitter and a receiver. The transmitter is installed near the video signal source, and the receiver is placed near the desired display, up to impressive 330m (1,000ft) away for composite (CVBS) video and analog stereo audio. The AT-COMP150SR does not need external power supply which is easier for installation.

Diagram:



FEATURES

- ★ Passive and no power required
- ★ Supports component (YPbPr) and composite (CVBS) video and L/R stereo audio
- ★ Supports resolutions up to 720p/1080i (NTSC/PAL)
- ★ Transmission range up to 1,000 feet
- ★ Wall mountable

Note: The length depends on the characteristics and quality of the cables. Higher resolutions and longer transmission distances require low skew cables (<25ns/100m) for best performance. Unshielded CAT6 with metal RJ45 connectors is recommended

PACKAGE CONTENTS

- ★ 1x AT-COMP150SR (Sender unit and Receiver unit)
- ★ 1x User's manual

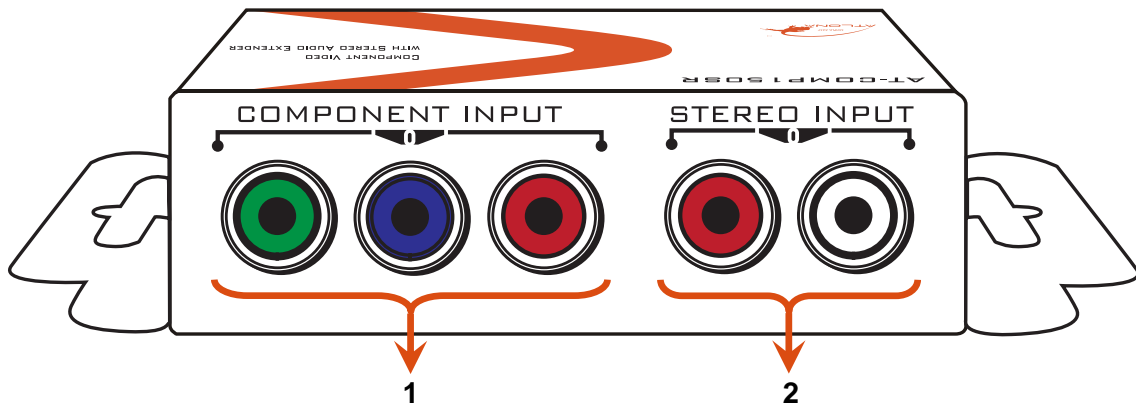
SPECIFICATIONS

Model Name		AT-COMP150SR	
Technical			
Role of usage		Sender (TX)	Receiver (RX)
Video support		Up to 720p60, 1080i60, 1080p30	
Audio support		L/R stereo analog audio	
Transmission		HD 720p/1080i – 185m (600ft) 480i – 330m (1,000ft)	
Input		5x RCA	1x RJ45
Output		1x RJ45	5x RCA
RCA connector		75Ω female	
RJ45 connector		WE/SS 8P8C	
Mechanical			
Housing		Metal enclosure	
Dimensions [L x W x H]	Model	[TX/RX] 54 x 85 x 26mm [2.1" x 3.3" x 1"]	
	Package	141 x 198 x 74mm [5.5" x 7.8" x 2.9"]	
Weight	Model	[TX/RX] 170g [6oz]	
	Package	750g [1.7 lbs]	
Fixedness		Wall-mount case with screws	
Power supply		None	
Power consumption		0.1 Watt [max]	
Operation temperature		0~40°C [32~104°F]	
Storage temperature		-20~60°C [-4~140°F]	
Relative humidity		20~90% RH [no condensation]	

PANEL DESCRIPTION

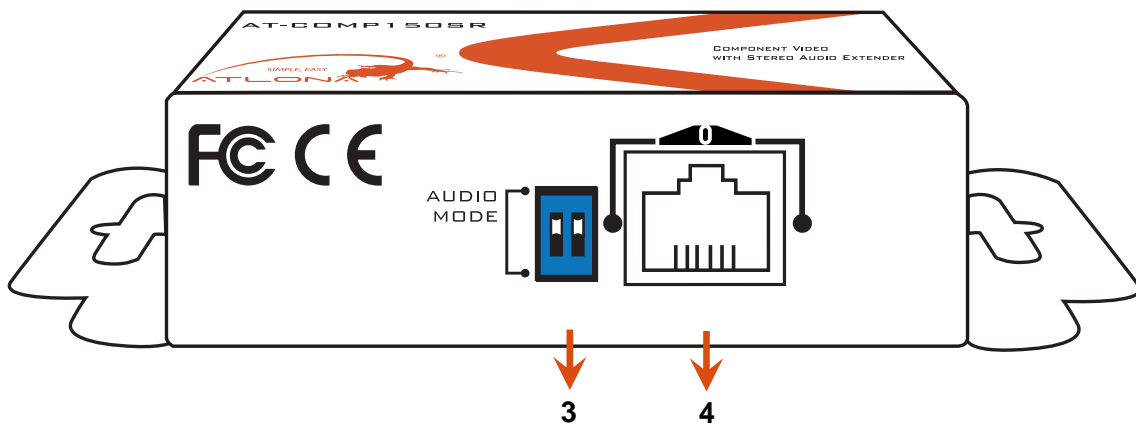
Sender Unit: AT-COMP150S

Input Panel



1. **COMPONENT INPUT:** Connect to one component video or three composite video sources.
2. **STEREO INPUT:** Connect to an analog stereo audio source.

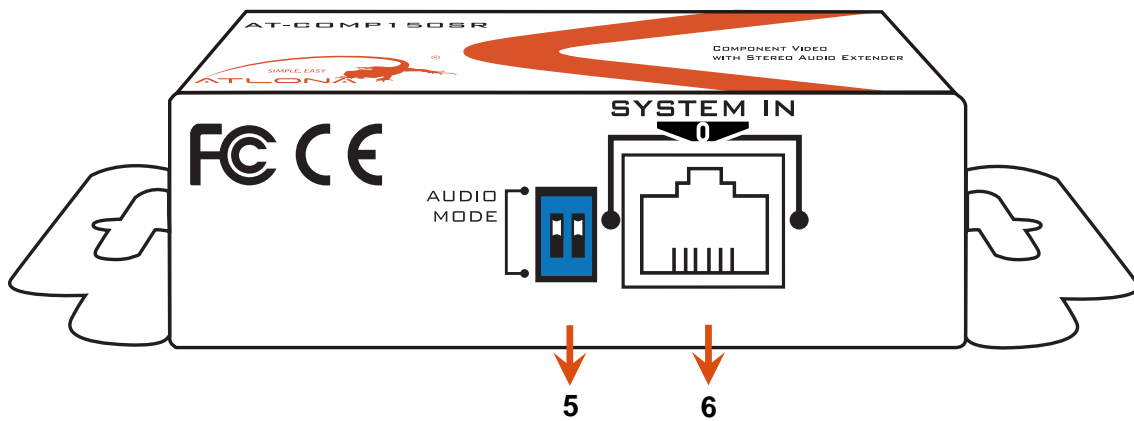
Output Panel



3. **AUDIO MODE:** See next section for more detail.
4. **SYSTEM OUT:** Connect a CAT5e/6 cable and link to the **SYSTEM IN** port on the Receiver unit.

Receiver Unit: AT-COMP150R

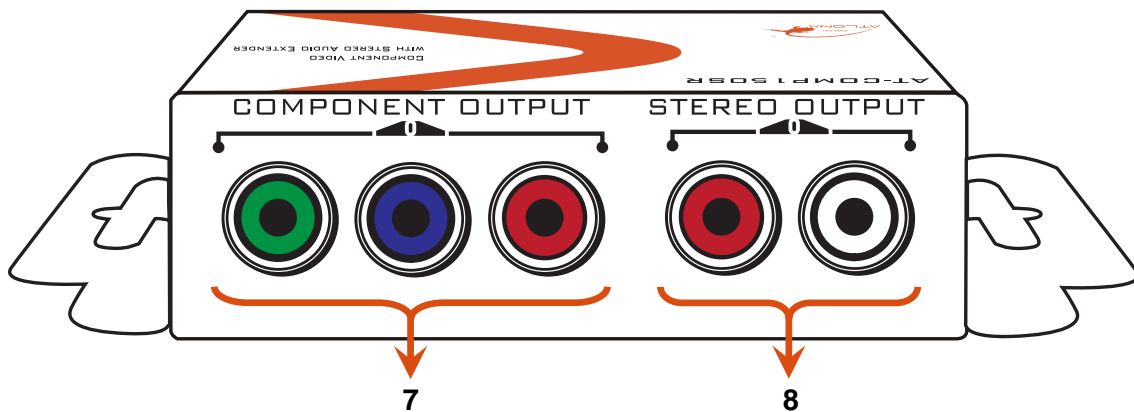
Input Panel



5. **AUDIO MODE:** See next section for more detail.

6. **SYSTEM IN:** Connect a CAT5e/6 cable and link to the **SYSTEM OUT** port on the Sender unit.

Output Panel



7. **COMPONENT OUTPUT:** Connect to one component or three composite video displays.

8. **STEREO OUTPUT:** Connect to analog stereo audio speakers.

AUDIO MODE

DIP Switch Position		Audio	Description
Pin 1	Pin 2		
ON [↓]	ON [↓]	Mono	Set both Sender unit and Receiver unit at this position to get mono Left channel audio with Right channel grounded to get better audio clarity
OFF [↑]	OFF [↑]	Stereo	Set both Sender unit and Receiver unit at this position to get stereo Left and Right channel audio.

- 1. Use shielded or even double shielded cables to get better audio quality*
- 2. Even though the mono sound is sent by setting the DIP switch to ON-ON [↓↓] position on the Sender unit, you still can hear stereo-alike sound by setting the DIP switch at OFF-OFF [↑↑] on the Receiver unit. The key reason to set the DIP switch on the Sender unit at ON-ON [↓↓] position is to lower the interferences between wires in CAT5e/6 cable and this may result in better audio and video quality especially for long range applications.*

INSTALLATION

1. Switch off all devices, including monitors.
2. Connect the Sender unit of AT-COMP150SR to the video and audio sources.
3. Connect the Receiver unit of AT-COMP150SR to component or composite display(s) and stereo speakers.
4. Power on the displays and speakers.
5. Power on the audio and video sources.

NOTICE

1. All component/composite over CAT5 transmission distances are measured using Belden 1583A CAT5e 125MHz UTP cable and ASTRODESIGN Video Signal Generator VG-859C.
2. The transmission length is largely affected by the type of category cables. The testing result shows solid UTP cables (usually in the form of 1000ft bulk cables) can transmit a lot longer signals than stranded UTP cables (usually in the form of fixed length patch cords). A solid UTP CAT5e cable shows longer transmission length than stranded STP CAT6 cable. For long extension users, solid CAT5e/6 cables are your only choice.
3. EIA/TIA-568-B termination (T568B) for CAT5e/6 cables is recommended.
4. To reduce the interference among the unshielded twisted pairs of wires in UTP cable, double shielded STP cables are better suit than unshielded UTP cables to improve EMI problems, which is worsen in long transmission.
5. Because the quality of the CAT5e/6 cables has the major effects in how long transmission distance will be made and how good is the received display, the actual transmission length is subject to the choice of your CAT5e/6 cables.
6. Increase in distance and resolution will generally result in loss of image sharpness or drop in video sync.

SAFETY INFORMATION

Safeguards

To reduce the risk of electric shock, do not expose this product to rain or moisture.

If the wall plug does not fit into your local power socket, hire an electrician to replace your obsolete socket.

Do not modify the wall plug. Doing so will void the warranty and safety features.

This equipment should be installed near the socket outlet and the device should be easily accessible in case it requires disconnection.

Precautions

FCC Regulations state that any unauthorized changes or modifications to this equipment not expressly approved by the manufacturer could void the user's authority to operate this equipment.

Operate this product using only the included external power supply. Use of other power supplies could impair performance, damage the product or cause fires.

In the event of an electrostatic discharge, this device may automatically turn off. If this occurs, unplug the device, and plug it back in.

Protect and route power cords so they will not be stepped on or pinched by anything placed on or against them. Be especially careful of plug-ins, or cord exit points from this product.

Avoid excessive humidity, sudden temperature changes or temperature extremes.

Keep this product away from wet locations such as bathtubs, sinks, laundries, wet basements and swimming pools.

Use only accessories recommended by ATLONA to avoid fire, shock or other hazards.

Unplug the product before cleaning. Use a damp cloth for cleaning. Do not use cleaning fluid or aerosols, which could enter the unit and cause damage, fire or electrical shock. Some substances may also mar the finish of the product.

Never open or remove unit panels or make any adjustments not described in this manual. Attempting to do so could expose you to dangerous electrical shock or other hazards. It may also cause damage to your AT-COMP150SR. Opening the product will void the warranty.

Do not attempt to service the unit. Instead disconnect it and contact your Authorized ATLONA reseller or contact ATLONA directly.

WARRANTY

1. LIMITED WARRANTY

Atlona Technologies warrants that (a) its products (the "Product") will perform substantially in accordance with the accompanying written materials for a period of 3 years from the date of receipt and (b) that the Product will be free from defects in materials and workmanship under normal use and service for a period of 3 years. In the event applicable law imposes any implied warranties, the implied warranty period is limited to 3 years from the date of receipt. Some jurisdictions do not allow such limitations on duration of an implied warranty, so the above limitation may not apply to Customer.

2. CUSTOMER REMEDIES

Atlona Technologies and its suppliers' entire liability and Customer's exclusive remedy shall be, at Atlona Technologies' option, either return of the price paid for the Product, or repair or replacement of the Product that does not meet this Limited Warranty and which is returned to Atlona Technologies with a copy of Customer's receipt. This Limited Warranty is void if failure of the Product has resulted from accident, abuse, or misapplication. Any replacement Product will be warranted for the remainder of the original warranty period or 3 year, whichever is longer.

3. NO OTHER WARRANTIES

TO THE MAXIMUM EXTENT PERMITTED BY APPLICABLE LAW, ATLONA TECHNOLOGIES AND ITS SUPPLIERS DISCLAIM ALL OTHER WARRANTIES, EITHER EXPRESS OR IMPLIED, INCLUDING, BUT NOT LIMITED TO IMPLIED WARRANTIES OF MERCHANTABILITY AND FITNESS FOR A PARTICULAR PURPOSE, WITH REGARD TO THE PRODUCT AND ANY RELATED WRITTEN MATERIALS. THIS LIMITED WARRANTY GIVES CUSTOMER SPECIFIC LEGAL RIGHTS. CUSTOMER MAY HAVE OTHER RIGHTS DEPENDING ON THE JURISDICTION.

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ATLONA
1293 Mountain View Alviso Rd. Suite A
Sunnyvale, CA 94089
Toll Free: 1-877-536-3976
International: 408-962-0515
FAX: 408-743-5622
Website: www.atlona.com
E-MAIL: info@atlona.com

ATLONA PRODUCT REGISTRATION

Thank you for purchasing this Atlona product — we hope you'll enjoy it.



We also hope that you'll take a few moments to register your new purchase. Registration creates an ownership record if your product is lost or stolen and helps ensure you'll receive notification of performance issues and firm-ware updates.

At Atlona, we respect and protect your privacy and assure you that your registration information is completely secure. Of course, Atlona product registration is totally voluntary and failure to register will not diminish your limited warranty rights.

To register go to www.atlona.com/registration

PERFORMANCE GUIDE

Performance rating		Type of category cable		
Wiring	Shielding	CAT5	CAT5e	CAT6
Solid	Unshielded (UTP)	★★★	★★★★	★★★★★
	Shielded (STP)	★★★	★★★	★★★★
Stranded	Unshielded (UTP)	★	★★	★★
	Shielded (STP)	★	★	★★
Termination		Please use EIA/TIA-568-B termination (T568B) at any time		