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## USER MANUAL

# VGA WITH STEREO AUDIO EXTENDER KIT OVER SINGLE CAT5/6/7 WITH DDC SUPPORT AT-RGB45SR



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## INTRODUCTION

The Atlona AT-RGB45SR (transmitter and Receiver) Extender units with stereo Audio allow users to extend Video signal with resolutions VGA~WUXGA (640x480~1920x1200) up to 150ft (45m). The RGB45SR is designed to extend both audio and video on a single low cost CAT5, 6 or 7 Cable. The extenders are featured with DDC (EDID) support, which is needed for video cards to know what the display capabilities are. The AT-RGB45SR extenders transfer signal in real time with less than 2ms of delay.

**Note:** The AT-RGB45SR is capable of sending Component Video signal via VGA/Component adapters.

## APPLICATIONS

- Office Workstation: PC to Monitor Extension allows extending video and audio up to 150ft away from the workstation.
- Conference Room or Boardroom: PC to Projector Extension allows extending video signal over long distance utilizing existing CAT5, 6 or 7 cables. This solution is perfect for Schools and Universities.
- Computer/Monitor Testing: Since the AT-RGB45SR are capable of supporting DDC (EDID), it would make it easy for QA department to test Displays/computers which are further away from the testing area.
- Airport/Train Station: The RGB45SR's are based on low power chip-set which is designed to work for many years without a need to reboot/reset.

## PACKAGE CONTENTS

- AT-RGB45SR (transmitter and Receiver are included)
- 5V DC power supply x 2
- Operation Manual

## FEATURES

- Transmits real time Video and Audio up to 150ft
- Supports extremely high resolutions up to WUXGA (1920x1200)
- Supports DDC (EDID), allows video card to know what the display capabilities are.
- Based on the low power chip-set, therefore can last many years without reboot/reset
- Designed to transmit both Video and Audio on low cost CAT5/6/7 Cable
- Support Hot Plug Detect



## SPECIFICATION

Input PortT	ransmitter1	x VGA, 1 x 1/8-inch (3.5mm) jack
	Receiver	1 x RJ45
Output PortT	ransmitter1	x RJ45
	Receiver	1 x VGA, 1 x 1/8-inch (3.5mm) jack
CAT6 Cable*		150ft (45m)
Support resolution		640x480@60/72/75/85, 720x400@70, 800x600@56/60/72/75/85, 1024x768@60/70/75,1280x720@60, 1280x768@60, 1280x800@60RB/60, 1280x960@60, 1280x1024@60/75, 1366x768@60RB/60, 1440x900@60RB/60/75, 1680x1050@60, 1600x1200@60, 1920x1080@60p,1920x1200@60RB
ESD ProtectionH		uman body model: ± 8kV (air-gap discharge) ± 4kV (contact discharge)
Dimensions (inch)		3.1(W) x 3.58(D) x 1.18(H)
Power Supply		2x5V DC / 2.6A (100~240V)
Weight (lb)		0.5 each unit
Chassis Material		Aluminum
Power ConsumptionT		ransmitter: 1W, Receiver: 1W
Operating Temperature		0°C~40°C / 32°F ~ 104°F
Storage Temperature		-20°C~60°C / -4°F ~ 140°F
Relative Humidity		20~90% RH (non-condensing)

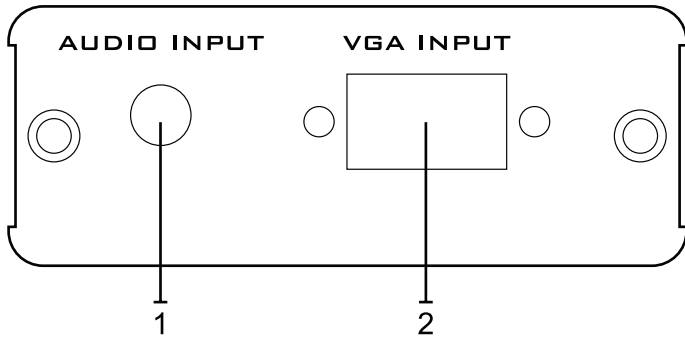
\* Atlona recommends using CAT6 UTP (solid) cables; however the RGB45SR unit can work with standard Cat5, Cat5e, Cat6, and Cat7 cables.



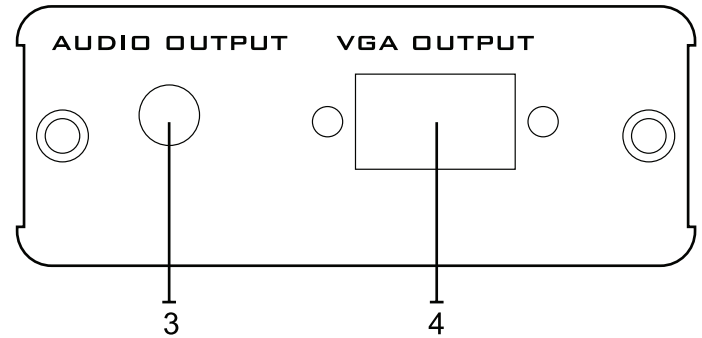
## HARDWARE DESCRIPTION

### 6.1. Front Panel

#### Transmitter



#### Receiver

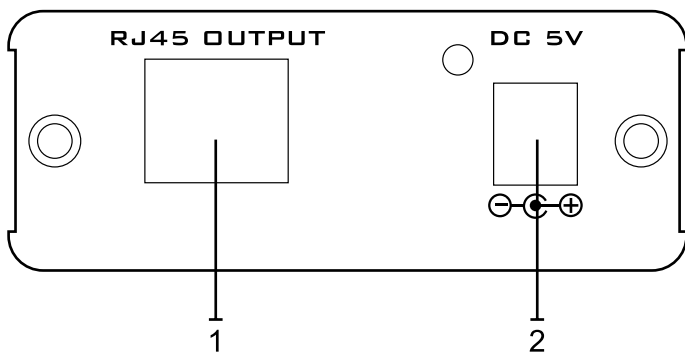


1. AUDIO INPUT: This input is for connecting audio output from the sound card of the computer. For audio to be transferred, video signal in the VGA INPUT is required.
2. VGA INPUT: This input is for connecting VGA (HD15) output of the computer.
3. AUDIO OUTPUT: This output is for connecting audio output from receiver module to a set of powered speakers or monitor with speakers.
4. VGA OUTPUT: This output is for connecting video output from receiver module to VGA (HD15) input on the computers monitor/projector.

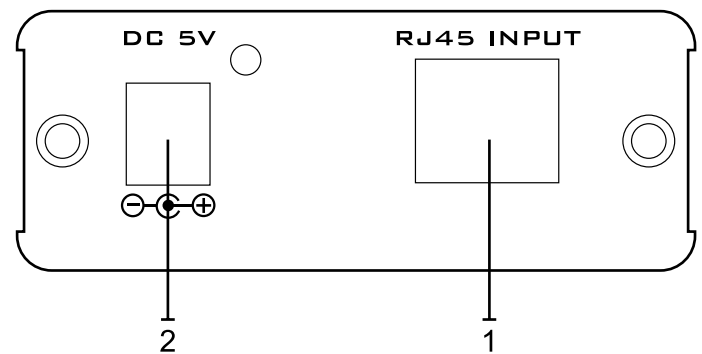
## USB202 Installation

### 6.2. Rear Panel

#### Transmitter



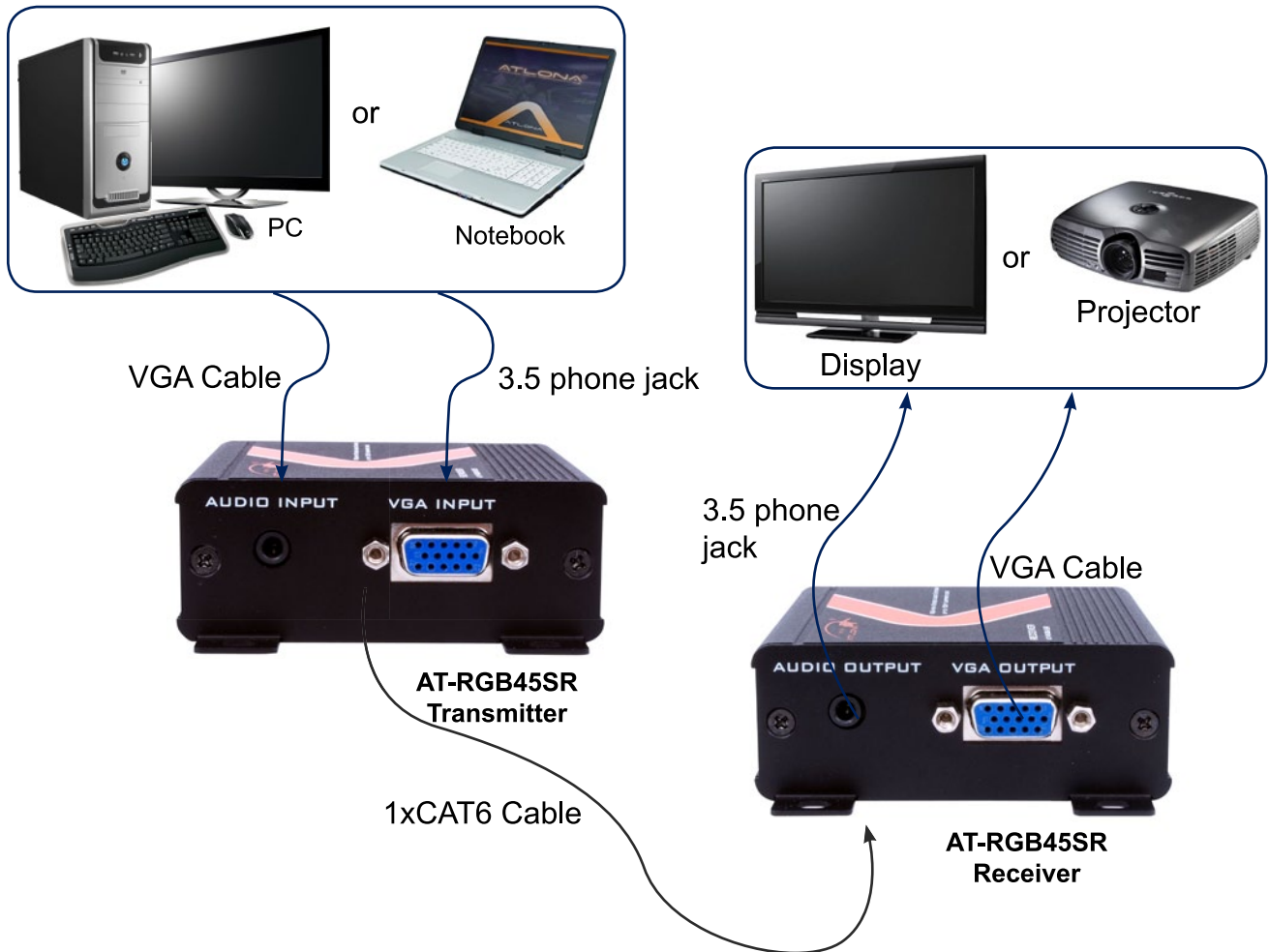
#### Receiver



1. RJ-45 OUTPUT / INPUT: Connect CAT5, 6 or 7 cable up to 150ft
2. DC 5V: Connect with supplied power supplies



## CONNECTION AND INSTALLATION



## SAFETY INFORMATION

### Safeguards



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



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



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



This equipment should be installed near the socket outlet and the device should be easily accessible in the 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, fish tanks, 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 and not cleaning fluid or aerosols. Such products could enter the unit and cause damage, fire, or electric shock. Some substances may also mar the finish of the product.

Never open, 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-RGB45SR. Opening the product will void the warranty.

Do not attempt to service the unit. Disconnect the product and contact your authorized Atlona reseller or contact Atlona directly.

## WARRANTY

### Limited Warranty

Atlona Technologies warrants that (a) its products (the AT-RGB45SR) 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 customers that fall within those areas.

### Customer Remedies

Atlona Technologies' and its suppliers' entire liability and Customer's exclusive remedy shall be, at Atlona Technologies' decision, either return of the price paid for the product, repair, or replacement of the product that does not meet this Limited Warranty and which is returned to Atlona Technologies with a copy of the Customer's receipt. This Limited Warranty is void if failure of the product has resulted from accident, abuse, misapplication, or natural occurrence. In example but not limited to: power surges (electrical storms, local power outage), dropping the product (or items on the product), contact with fluids, and physical misconduct (i.e. kicking or punching). Any replacement product will be warranted for the remainder of the original warranty period.

### No other warranties

To the maximum extent permitted by applicable law, Atlona Technologies and its suppliers disclaim all other warranties, either expressed 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. Customers may have other rights depending on the jurisdiction.

### No liability for damages

To the maximum extent permitted by applicable law, in no event shall Atlona Technologies or its suppliers be liable for any damages arising out of the use of or inability to use this product, even if Atlona Technologies has been advised of the possibility of such damages. Such damages include but are not limited to: special, incidental, consequential, or indirect damages for personal injury, loss of business profits, business interruption, loss of business information, or any other pecuniary loss. Atlona Technologies' and its suppliers' entire liability under any provision of this agreement shall be limited to the amount actually paid by you for the product. Some Jurisdictions do not allow the exclusion or limitation of liability for consequential or incidental damage. The above limitations may not apply to you in such jurisdictional cases.



## **ATLONA PRODUCT REGISTRATION**

Thank you for purchasing this Atlona product. - We hope you enjoy it and will take an extra 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 firmware updates.

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

**To register go to:** <http://www.atlona.com/registration>