



ATLONA
DVI OVER CAT5 TRANSMITTER/RECEIVER
WITH RS-232 & STEREO AUDIO.
AT-DVI100SR & AT-DVI250SR

USER MANUAL



AT-DVI100SR



AT-DVI250SR

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INTRODUCTION

Atlona Technologies' DVI over CAT5/6/7 Transmitter/Receivers with RS-232 & Stereo Audio (AT-DVI100SR & AT-DVI250SR) provide the most flexible solution in the Audio Video industry today at which high definition video and high quality audio can be transmitted to different locations over long distances with low cost Cat5/6/7 cables. These DVI transmitter and receiver units over CAT5/6/7 are a pair of extenders for sending DVI signal along with stereo audio and RS232 up to 825ft. Along with built in EDID and RS232 control, these extender are simple to operate and easy to install. The AT-DVI100SR & AT-DVI250SR are the perfect products for extending high resolution digital signal with crystal clear images from source to display.

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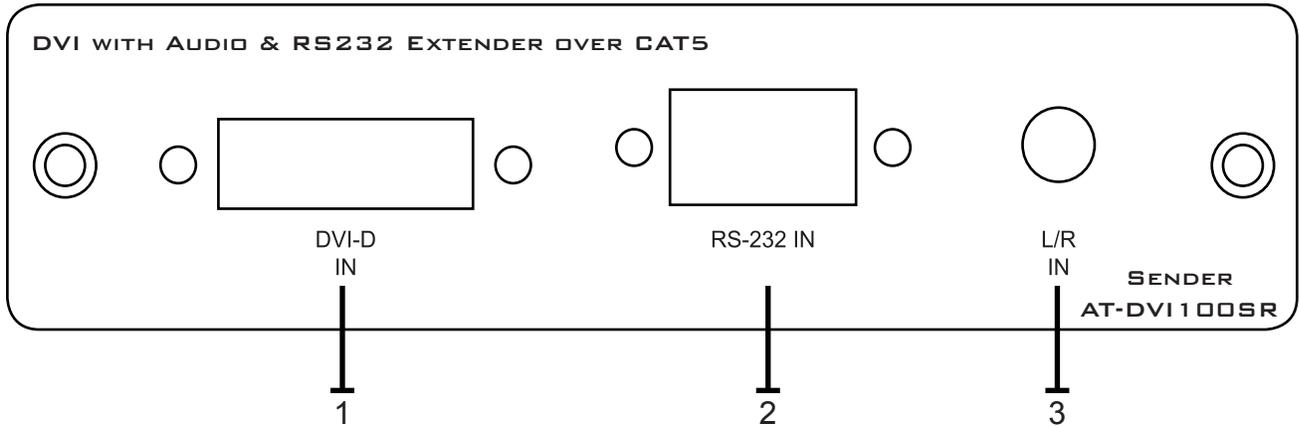
- DVI over CAT 5 /6/7 Transmitter x 1
- DVI over CAT 5 /6/7 Receiver:
330ft (**AT-DVI100SR**) x1 or 825ft (**AT-DVI250SR**) x 1
- Operational Manual x 1
- 5V/2.6A Power Adaptor x 2

FEATURES

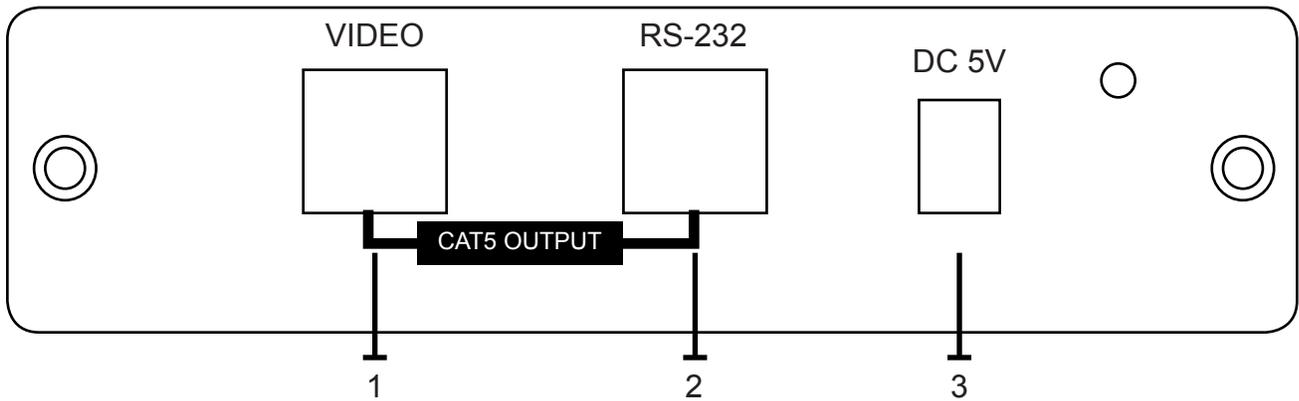
- Transmits DVI long distances over cost effective twisted Pair CAT5/6/7 cable
up to 330ft : (**AT-DVI100SR**)
up to 825ft : (**AT-DVI250SR**)
- Stereo Audio
- RS232 Control Signal
- DVI 1.0 Compliant; HDTV Compatible
- Supports Equalizer, Gain, CTI (Color Transient Improvement) adjustment. (Only available on 250SR model.)
- Supports high definition input up to 1080P/1920x1200
- Simple installation and easy to operate.
- HDCP Compliant.
- Build-in EDID module which would save EDID info of the display to reliable connection between the source and display.

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

Transmitter's Front Panel

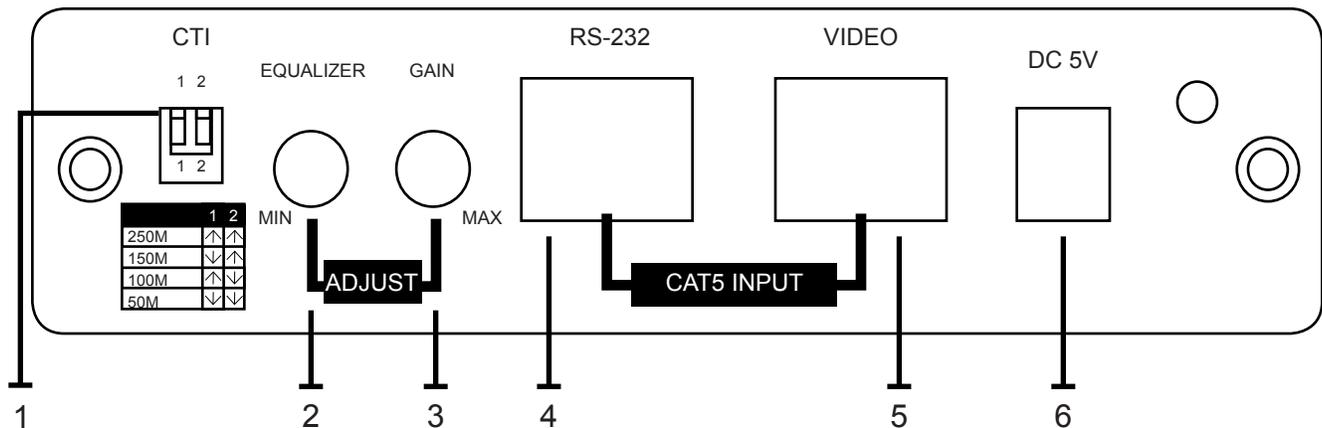


- 1) **DVI-D IN** – Connect DVI source video output with DVI cable.
- 2) **RS-232** – Connect to source with D-Sub 9 pin cable to control output display device.
- 3) **L/R IN** – Connect DVI source audio output with Stereo Audio.



- 1) **VIDEO CAT5 OUTPUT** - Connect VIDEO output to VIDEO input of receiver with CAT5/5e/6 cable.
- 2) **RS232 CAT5 OUTPUT** - Connect RS232 output to RS232 input of receiver with CAT5/5e/6 cable.
- 3) **Power Jack** – Connect to 5V / 2.6A power adaptor.

Receiver's Front Panel



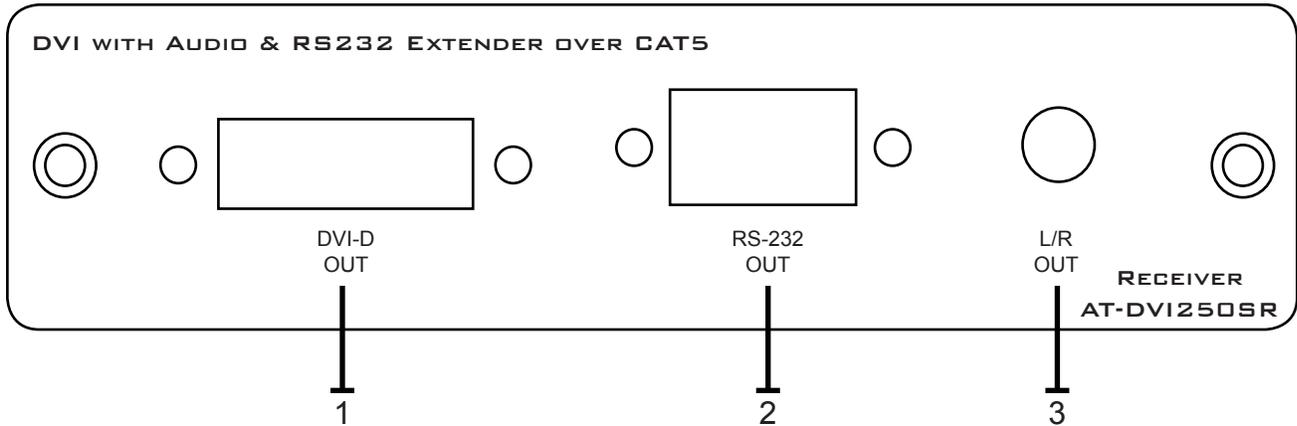
- 1) **CTI dip switch** – CTI Settings using the twin jumpers to adjust the optimized setting for different distances.

CTI	1	2
150 - 250m	↑	↑
100 - 150m	↓	↑
50 - 100m	↑	↓
50 m ↓	↓	↓

Note: This function is only available on 250SR.

- 2) **EQUALIZER** – Use this switch to adjust Sharpness/Peak over long distance by turning right or left.
- 3) **GAIN** – Use this switch to adjust Brightness/Contrast by turning right or left.
- 4) **RS232 CAT 5 INPUT** - Connect the RS232 input to the RS232 output of the transmitter with CAT5/5e/6 cable.
- 5) **VIDEO CAT 5 INPUT** – Connect the VIDEO input to the Video output of the transmitter with CAT5/5e/6 cable.
- 6) **Power Jack** – Connect with 5V / 2.6A power adaptor.

Receiver's Rear Panel



- 1) **DVI-D OUT** – Connect to display monitor with DVI cable.
- 2) **RS-232** – Connect to display with D-Sub 9 Pin cable for controlling display device. (Please refer to section 5 for RS-232 pin definition).
- 3) **L/R OUT** – Connect to audio input with Stereo Audio Input.

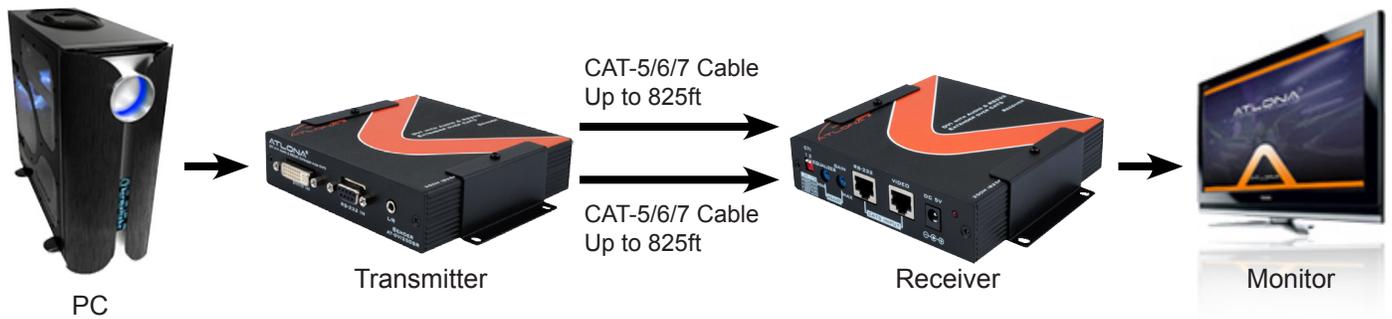
RS-232 PROTOCOL

RJ-45 Pin Definition

Pin	Definition
1	R x D -
2	R x D +
3	T x D -
4	GND
5	GND
6	T x D +
7	N/A
8	N/A

Baud Rate: 110~921600

CONNECTION AND INSTALLATION



SPECIFICATIONS

Transmitter Input ports	1 x DVI-I female port (Accept DVI-D signal only) 1 x RS-232 1 x Stereo Audio (3.5 mm Jack)
Transmitter Output ports	2 x RJ45
Receiver Input ports	2 x RJ45
Receiver Output ports	1 x DVI-I female port (Output DVI-D Signal only) 1 x RS-232 1 x Stereo Audio (3.5 mm Jack)
Resolution	HD- 480i/p 60, 576p 50, 720P 50/60, 1080i 50/60Hz, 1080p 50/60Hz PC- 640 x 480=VGA72, VGA75, VGA85 800 x 600=SVGA56, SVGA60, SVGA72, SVGA75, SVGA85 1024 x 768=XGA60, XGA70, XGA75, XGA85 1280 x 1024=SXGA60, SXGA75, SXGA85 1600 x 1200=UXGA60 1920 x 1200
Power Supply	5V / 2.6A DC (110/240 power supply)
Dimensions (inch)	4.9W / 5.11L / 1.18H
Weight (LB)	1.8 LB each
Material	Aluminum
Color	Black
Power Consumption	Transmitter 7W Receiver 6.5W / 250RC 6W / 100RC

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-DVI100SR, AT-DVI250SR. 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.

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

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