

# CAT-5 VGA-Audio Extender

## SB-6210 TRANSMITTER

- Input : 1x VGA(RGBHV) + Stereo Audio
- Output: 2x CAT5 (Tx) Transmitter Distribution



## SB-6210R REPEATER+RECEIVER

- Input : 1x CAT5 (Rx) Receiver
- Output: 1x VGA(RGBHV)+Stereo Audio
- Loop Output : 1x CAT5 (Tx) Repeater



# Instruction Manual

**SHINYBOW™ USA**

## CAT-5 VGA EXTENDER

CAT-5 VGA  
VGA(RGBHV) & STEREO AUDIO

TRANSMITTER

SB-6210

REPEATER

SB-6210R



- VGA : RGBHV
- Stereo Audio : AR, AL

Power Input : SB-6210 +12V DC @300mA~660mA  
SB-6210R +12V DC @300mA~660mA



### Safety Notice!

To prevent damage to your television equipment use only the supplied AC Adaptor and make the power connections to your television.

# CAT-5 VGA Series

## **CAT-5 Transmitter/Repeater/Receiver Series**

Thank you for purchasing the VGA CAT5 SB-6210 Transmitter, SB-6210R Repeater. You will find this unit easy to install and highly reliable but it is essential that you read this manual thoroughly before attempting to use Extender.



## Introduction

Congratulations on your purchase of one the most innovative CAT5 Transmitter/ Repeater/Receiver product on the market Today. The SB-6210 is a transmitter its driving VGA signals over long lines by category cable to SB-6210R CAT5 repeater and receiver two in one unit. High performance for VGA(640x480), SVGA(800x600), XGA(1024x768), SXGA(1280x1024), UXGA(1600x1200), WUXGA(1900x1200) driving with a ADCs digital signal. Signals VGA and stereo audio with a maximum extension of 1000ft between transmitter and receiver. And use category 5 cable. The terminators are Rj45(Category 5) jack and VGA HD-15, Earphone jack.

## Before you make any connections

Make sure all Video devices to be connected to the CAT5 Transmitter/Repeater/Receiver are functioning according to their respective operation manuals before connecting them. Always connect the VGA devices to the CAT5 Tx/Rx one at a time and make sure each works just as it did before it was connected.

## Safeguards and Precautions

- Keep this unit away from fire, extremely hot areas, water or moisture of any Kind.
- Do not place this unit on any support that is not firm, level and strong.
- Do not service the unit yourself. Opening the unit's housing will void the warranty.
- Servicing must be by Shinybow or by an authorized technician.
- Illegal duplication of copyrighted material is strictly prohibited by Federal Laws.

## Supplied Accessories

Check that you have the following components in your converter pack ;

- 1 x Instruction Manual
- 1 x Transmitter or Repeater or Receiver
- 1 x AC Adaptor : 12VDC, @300mA~660mA



## Specifications :

<b>Model Number</b>	<b>SB-6210 Transmitter</b>	
	<b>SB-6210R Repeater &amp; Receiver</b>	
<b>Type of Signals</b>	VGA-RGBHV & Stereo Audio (AR/AL)	
<b>Cable for CAT5,5e,6</b>	<b>VGA Resolution</b>	<b>Distance</b>
	SXGA (1280x1024)	450 feet
	XGA (1024 x 768)	600 feet
	VGA (640 x 480)	1000 feet
<b>Video Bandwidth</b>	Tx: 400 Mhz, 13dB full power, Rx : 270MHz 1090V/us@G= +1	
<b>Tx slew rate</b>	2000 V/us	
<b>Video Maximum input levels</b>	1.45 Vp-p	
<b>Rx High input impedance</b>	1 MΩ differential	
<b>Audio Frequency response</b>	20Hz to 20KHz, +/-1db	
<b>Audio Maximum input levels</b>	3.1 Vp-p(line level)	
<b>Low distortion</b>	Tx: 68dB SFDR@5 Mhz 200Ω load. Rx: 1 Vp-p@5MHz	
<b>In/Out Terminal</b>	Rj45 Jack, HD-15 and Ear phone Jack female connect ors.	
<b>Size (L,W,H)</b>	2.75 in x 3.07 in x 1 in (70x78x26mm)	
<b>Net Weight (Unit only)</b>	0.48 lbs. (0.26kg) Approx.	
<b>Power Consumed</b>	SB-6210(@100mA, Max 250mA), SB-6210R(@100mA, Max 250mA)	
<b>Power Source</b>	DC 12 Volts, SB-6210(@300mA~660mA), SB-6210R(@300mA~660mA)	

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## Typical Hookup and Operation

### SB-6210

Front View



Rear View



### TRANSMITTER

Front:  
Input : VGA+Stereo Audio

Rear :  
Output : 2x CAT5 (Tx) Transmitter  
Power output : DC12V, @300mA~660mA

### SB-6210R

Front View



Rear View



### REPEATER + RECEIVER

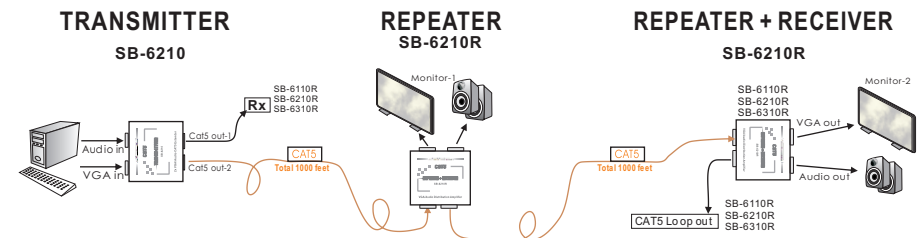
Front :  
Input : 1x CAT5 (Rx) Receiver  
Output: 1x CAT5 (Tx) Repeater  
Power Input : DC 12V, @300mA

Rear :  
Output : VGA+Stereo Audio  
Power output : DC12V, @300mA~660mA

## VGA Transmitter signal s :

VGA(640x480) , SVGA(800x600) , XGA(1024x768) , SXGA(1280x1024) , UXGA(1600x1200) , WUXGA(1900x1200)

## Installing



## APPLICATIONS:

**TX :** Video line driver, Digital line driver, Low power differential ADC driver, Signal-ended input to differential output driver  
**RX :** High speed differential line receivers, Differential-to-single-ended converters, High speed instrumentation amps, level shifting.