

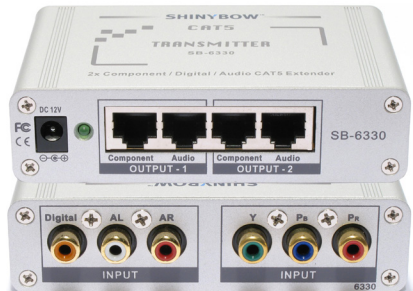
SB-6330R or SB-6330T

CAT5/Component Video - HDTV/Digital & Stereo Audio
RECEIVER or TRANSMITTER

SB-6330R



SB-6330T





SAFETY INFORMATION



1. To ensure the best results from this product, please read this manual and all other documentation before operating your equipment. Retain all documentation for future reference.
2. Follow all instructions printed on unit chassis for proper operation.
3. To reduce the risk of fire, do not spill water or other liquids into or on the unit, or operate the unit while standing in liquid.
4. Make sure power outlets conform to the power requirements listed on the back of the unit. Keep unit protected from rain, water and excessive moisture.
5. Do not attempt to clean the unit with chemical solvents or aerosol cleaners, as this may damage the unit. Dust with a clean dry cloth.
6. Do not use the unit if the electrical power cord is frayed or broken. The power supply cords should be routed so that they are not likely to be walked on or pinched by items placed upon or against them, paying particular attention to cords and plugs, convenience receptacles, and the point where they exit from the appliance.
7. Do not force switched or external connections in any way. They should all connect easily, without needing to be forced.
8. Always operate the unit with the AC ground wire connected to the electrical system ground. Precautions should be taken so that the means of grounding of a piece of equipment is not defeated.
9. AC voltage must be correct and the same as that printed on the rear of the unit. Damage caused by connection to improper AC voltage is not covered by any warranty.
10. Turn power off and disconnect unit from AC current before making connections.
11. Never hold a power switch in the "ON" position.
12. This unit should be installed in a cool dry place, away from sources of excessive heat, vibration, dust, moisture and cold. Do not use the unit near stoves, heat registers, radiators, or other heat producing devices.
13. Do not block fan intake or exhaust ports. Do not operate equipment on a surface or in an environment which may impede the normal flow of air around the unit, such as a bed, rug, carpet, or completely enclosed rack. If the unit is used in an extremely dusty or smoky environment, the unit should be periodically "blown free" of foreign dust and matter.
14. To reduce the risk of electric shock, do not remove the cover. There are no user serviceable parts inside. Refer all servicing to qualified service personnel. There are no user serviceable parts inside.
15. When moving the unit, disconnect input ports first, then remove the power cable; finally, disconnect the interconnecting cables to other devices.
16. Do not drive the inputs with a signal level greater than that required to drive equipment to full output.
17. The equipment power cord should be unplugged from the outlet when left unused for a long period of time.
18. Save the carton and packing material even if the equipment has arrived in good condition. Should you ever need to ship the unit, use only the original factory packing.
19. Service Information Equipment should be serviced by qualified service personnel when:
 - A. The power supply cord or the plug has been damaged.
 - B. Objects have fallen, or liquid has been spilled into the equipment.
 - C. The equipment has been exposed to rain.
 - D. The equipment does not appear to operate normally, or exhibits a marked change in performance.
 - E. The equipment has been dropped, or the enclosure damaged.

THIS SAFETY INFORMATION IS OF A GENERAL NATURE AND MAY BE SUPERSEDED BY INSTRUCTIONS CONTAINED WITHIN THIS MANUAL.

SAFETY PRECAUTIONS

Please read all instructions before attempting to unpack, install or operate this equipment and before connecting the power supply. Please keep the following in mind as you unpack and install this equipment:

- Always follow basic safety precautions to reduce the risk of fire, electrical shock and injury to persons.
- To prevent fire or shock hazard, do not expose the unit to rain, moisture or install this product near water.
- Never spill liquid of any kind on or into this product.
- Never push an object of any kind into this product through any openings or empty slots in the unit, as you may damage parts inside the unit.
- Do not attach the power supply cabling to building surfaces.
- Use only the supplied power supply unit (PSU). Do not use the PSU if it is damaged.
- Do not allow anything to rest on the power cabling or allow any weight to be placed upon it or any person walk on it.
- To protect the unit from overheating, do not block any vents or openings in the unit housing that provide ventilation and allow for sufficient space for air to circulate around the unit.

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TABLE OF CONTENTS

INTRODUCTION / CONTENTS	2
FEATURES	3
SPECIFICATIONS	4
TYPICAL HOOKUP & OPERATION	5

INTRODUCTION

CAT5 Transmitter/Receiver Series

Thank you for purchasing the YUV CAT5 SB-6330T Transmitter or SB-6330R Receiver. 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 these extenders.

Congratulations on your purchase of the SB-6330T/R Component and Audio over a simple category 5 (CAT5) UTP cable Transmitter or Receiver. The SB-6330T/R are able to transmit or receive Component Video or Composite Video and Digital & Stereo Audio for long distances up to 1000 ft. The SB-6330s provide excellent overall performance and versatility. They can transmit and receive differential Component/Audio signals over a single twisted pair category cable or use a triple, differential or single-ended input to transmit differential outputs. Specifically designed for YUV signals but can also be used for any type of video signals or high speed data transmission. These high speed amplifiers are designed to operate (3) group signals with high performance quality HDTV signal. Extends up to 1000 feet from receiver to transmitter for output to multiple high definition HDTV/ plasma displays using a CAT5 cable. The SB-6330T Transmitter supports double CAT5 outputs and one loop out port for preview of AV sources on a HDTV display at the same time via the RJ-45 (CAT5) jack and Component-Digital-Audio sockets. The SB-6330R allows for auto tint and brightness control. These component video splitter extenders are an ideal solution for applications to display the same image on multiple remote locations.

The SB-6330T is compatible with the following Component Video receivers:

- SB-6130R, SB-6230R, SB-6330R(Digital & Stereo Audio) or SB-6340R

Or with the following Composite Video - Digital & Stereo Audio receivers:

- SB-6235R or SB-6345R

PACKAGE CONTENTS

Check that you have the following components;

- SB-6330 Transmitter or Receiver
- Surface Mounting Bracket
- AC/DC Adapter: 12VDC@420mA
- Users Guide

FEATURES**SB-6330T TRANSMITTER**

- Inputs: (1) Component Video (YPBPR) / (1) Digital (Composite Video)+Stereo Audio
- Outputs: (2) CAT5 Component Video (YPBPR) / (2) CAT5 Digital (Composite Video)+Stereo Audio
- Inputs via gold plated, color coded RCA Phono sockets
- Category UTP cable max length to 1000 feet
- Easy to install and highly reliable
- (2) RJ-45 output sockets
- Brushed aluminum case with mounting brackets
- LED power ON indicator
- Includes power supply
- Supports resolutions up to 1080p
- For use in conjunction with the CAT5 Component receivers
- Can connect to (2) separate CAT5 receivers

SB-6330R RECEIVER

- Inputs: (1) CAT5 Component Video (YPBPR) / (1) CAT5 Digital (Composite Video)+Stereo Audio
- Outputs: (1) Component Video (YPBPR) / (1) Digital (Composite Video)+Stereo Audio
- (2) Outputs via gold plated, color coded RCA Phono sockets (1) Component + (1) Digital Audio
- Category UTP cable max length to 1000 feet
- Easy to install and highly reliable
- (2) RJ-45 (1) Component + (1) Digital Audio
- Brushed aluminum case with mounting brackets
- LED power ON indicator
- Includes power supply
- Supports resolutions up to 1080p
- For use in conjunction with the CAT5 Component transmitters
- Tint and Brightness control

SPECIFICATIONS

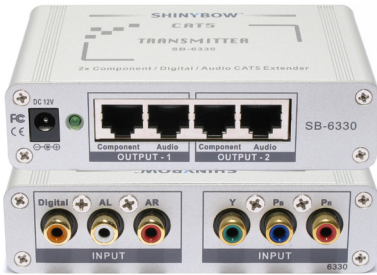
SPECIFICATIONS

- **Model Number:** SB-6330T (Tx), SB-6330R (Rx)
- **Tx Inputs/Outputs:**
 - Inputs: (1) Component Video (YPBPR) / (1) Digital (Composite Video)+Stereo Audio
 - Outputs: (2) CAT5 Component Video (YPBPR) / (2) CAT5 Digital (Composite Video)+Stereo Audio
- **Rx Inputs/Outputs:**
 - Inputs: (1) CAT5 Component Video (YPBPR) / (1) CAT5 Digital (Composite Video)+Stereo Audio
 - Outputs: (1) Component Video (YPBPR) / (1) Digital (Composite Video)+Stereo Audio
- **Type of Signals:** Component Video (YPBPR) / Digital (Composite) / Stereo Audio
- **Cable for CAT5/5e:**
 - **YUV Resolutions:**
 - 1080i (1920x1080) 450 feet
 - 720p (1080x720) 600 feet
 - 480p (720x480) 1000 feet
- **Video Bandwidth:**
 - Tx: 400MHz, 13dB full power
 - Rx: 270MHz 1090V/us@G=+1
- **Tx Slew Rate:** 2000V/us
- **Video Maximum Input Levels:** 1.45Vpp
- **Rx High Input Impedance:** 1M Ω differential
- **Audio Frequency Response:** 20Hz to 20KHz, +/-1dB
- **Audio Maximum Input Levels:** 3.1Vpp (line level)
- **Low Distortion:**
 - Tx: 68dB SFDR@5MHz 200 Ω load
 - Rx: 1Vpp@5MHz
- **In/Out Terminal:** RJ-45 Jack, HD-15 and Ear phone jack female connectors
- **Dimensions (LxWxH):** 4.5 x 2.9 x 1 in
- **Weight:** 0.4 lb (Unit only) / 1.0 lb (Net)
- **Power Consumed:** @300mA
- **Power Supply:** DC 12V@420mA

As product improvements are continuous, specifications are subject to change without notice.

TYPICAL HOOKUP AND OPERATION

SB-6330T



TRANSMITTER

Front:

Input: (1) Component Video (YPBPR)
(1) Digital (Composite Video)+Stereo Audio

Rear:

Output: (2) CAT5 Component Video (YPBPR)
(2) CAT5 Digital (Composite Video)+Stereo Audio

Power Output: DC12V@420mA

SB-6330R



RECEIVER

Front:

Inputs: (1) CAT5 Component Video (YPBPR)
(1) CAT5 Digital (Composite Video)+Stereo Audio

Rear:

Outputs: (1) Component Video (YPBPR)
(1) Digital (Composite Video)+Stereo Audio)

Power Output: DC12V@420mA

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.

CAT5 COMPONENT+AUDIO EXTENDER

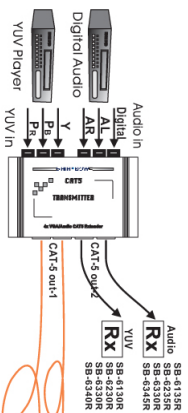
APPLICATIONS

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.

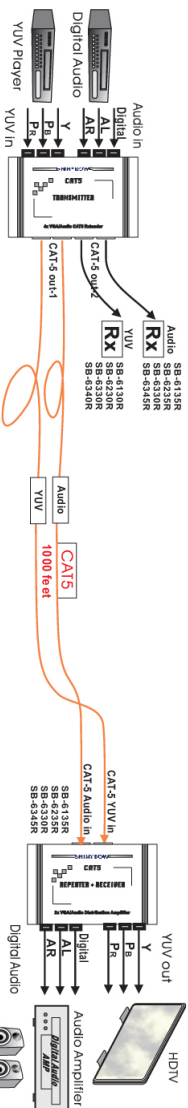
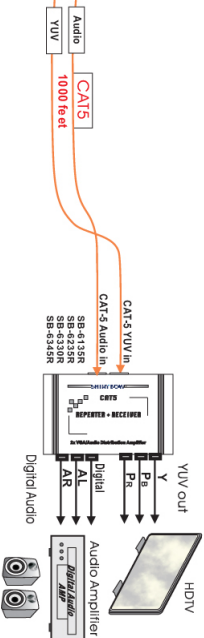
TRANSMITTER

SB-6330



RECEIVER

SB-6330R



Input: Component + Digital (Composite)-Audio

Power Input: SB-6330T +12V DC@420mA

SB-6330R +12V DC @420mA



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