
Limited Warranty Statement

A. Extent of limited warranty

1. SmartAVI warrants to the end-user customers that SmartAVI product specified above will be free from defects in materials and workmanship for the duration of 1 year, which duration begins on the date of purchase by the customer. Customer is responsible for maintaining proof of date of purchase.
2. SmartAVI limited warranty covers only those defects which arise as a result of normal use of the product, and do not apply to any:
 - a. Improper or inadequate maintenance or modifications
 - b. Operations outside product specifications
 - c. Mechanical abuse and exposure to severe conditions
3. If SmartAVI receives during applicable warranty period notice of defect SmartAVI will at its discretion replace or repair defective product. If SmartAVI is unable to replace or repair defective product covered by the SmartAVI warranty within reasonable period of time SmartAVI shall refund the cost of the product.
4. SmartAVI shall have no obligation to repair, replace or refund unit until customer returns defective product to SmartAVI.
5. Any replacement product could be new or like new, provided that it has functionality at least equal to that of the product being replaced.
6. SmartAVI's limited warranty is valid in any country where the covered product is distributed by SmartAVI.

B. Limitations of warranty

TO THE EXTENT ALLOWED BY LOCAL LAW, SMARTAVI NOT ITS THIRD PARTY SUPPLIERS MAKE ANY OTHER WARRANTY OR CONDITION OF ANY KIND WHETHER EXPRESSED OR IMPLIED, WITH RESPECT TO THE SMARTAVI PRODUCT, AND SPECIFICALLY DISCLAIM IMPLIED WARRANTIES OR CONDITIONS OF MERCHANTABILITY, SATISFACTORY QUALITY, AND FITNESS FOR A PARTICULAR PURPOSE.

C. Limitations of liability

To the extent allowed by local law the remedies provided in this warranty statement are the customer's sole and exclusive remedies.

TO THE EXTENT ALLOWED BY LOCAL LAW, EXCEPT FOR THE OBLIGATIONS SPECIFICALLY SET FORTH IN THIS WARRANTY STATEMENT, IN NO EVENT WILL SMARTAVI OR ITS THIRD PARTY SUPPLIERS BE LIABLE FOR DIRECT, INDIRECT, SPECIAL, INCIDENTAL OR CONSEQUENTIAL DAMAGES WHETHER BASED ON CONTRACT, TORT OR ANY OTHER LEGAL THEORY AND WHETHER ADVISED OF THE POSSIBILITY OF SUCH DAMAGES.

D. Local law

To the extent that this warranty statement is inconsistent with local law, this warranty statement shall be considered modified to be consistent with such law.

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Smart-AVI

Smart Audio Video Integration

User Manual

SX-200



Uses a single CAT5 to extend Keyboard, Mouse, Video and Audio to a remote location up to 500 ft. away.

Notice

The information contained in this document is subject to change without notice. SmartAVI makes no warranty of any kind with regard to this material, including but not limited to, implied warranties of merchantability and fitness for any particular purpose.

SmartAVI will not be liable for errors contained herein or for incidental or consequential damages in connection with the furnishing, performance or use of this material.

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Troubleshooting

Symptom	Action
No video	<p>Check the power LEDs on the transmitter and receiver unit. If LED is OFF make sure that the power adapter is connected.</p> <p>Check that the VGA cable from the computer is properly connected to the input of the transmitter unit.</p> <p>Verify that monitors are operational by connecting them directly to the computer.</p>
Poor Video	<p>Poor video may be caused by poor cabling, excessive CAT5 cable length or by ground loops.</p> <p>Verify that all cabling is properly made and shields are properly grounded.</p> <p>Verify that the CAT5 cable between the transmitter and receiver is within the limits shown in the video specification table.</p> <p>Have qualified personnel check AC power polarity at the computer and monitor end.</p>
Keyboard does not work	<p>Check the power LEDs on the transmitter and receiver unit. If LED is OFF make sure that the power adapter is connected.</p> <p>Check that the cabling is correctly connected and securely attached.</p> <p>Test the keyboard by connecting it directly to the computer. If the keyboard does not operate, you can test it on a different PC. If the keyboard does not work. Your keyboard has failed and needs to be replaced.</p>
Mouse does not work	<p>Check the power LEDs on the transmitter and receiver unit. If LED is OFF make sure that power adapter is connected.</p> <p>Check that the cabling is correctly connected and securely attached.</p> <p>Test the mouse by connecting it directly to the computer and rebooting it. If the mouse does not operate directly with the computer, replace the mouse.</p>

Specifications

SX-500 Specifications	
Signal	Analog signal: Red, Green, Blue 0.7 V p-p 75 Ohms
Resolution/Distance	640x480 1000ft; 800x600 850ft; 1024x768 700ft; 1200x1024 600ft; 1600x1200 560ft.
Sync	Horizontal and Vertical TTL compatible
Bandwidth	300 MHz
Keyboard	Standard PS/2 Compatible
Mouse	Standard PS/2 Compatible
Audio	Stereo Unbalanced 3.5mm jack socket
Power	5VDC 1A
Physical	
Dimensions W x D x H	109x166x30mm (4.29x6.54x1.18in)
Weight	.57 kg (1.26lb)
Enclosure Material	Aluminum

Technical Support

Our technical support staff is ready to assist you with your technical needs related to our product or its operation in your system. To obtain quick assistance please follow the troubleshooting guidelines below.

1. Review the troubleshooting section of this manual (found in the Appendix) to ensure that the problem cannot be resolved with information already provided.
2. Document the nature of your problem as detailed as possible and either call (818) 565-0011 or e-mail support@smartavi.com

To expedite assistance please provide model number, serial number, date of purchase and invoice number.

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Introducing the SX-200

There are situations when a PC needs to be located in a different area than the user. Common reasons for this requirement are security considerations, physical space limitations, computer unfriendly environmental concerns, convenience, and working environment noise reduction.

The SX-200 is a combination of transmitter and receiver devices designed to allow access to the PC from a keyboard, mouse, and monitor at a remote location up to 500 ft. away. The extension is accomplished over a single CAT5 cable.

The SX-200 also allows a serial connection to be extended along with the KVM.

The product consists of a transmitter unit that connects to your computer and a receiver that connects to the remote Keyboard, Monitor and Mouse.

Peripheral Compatibility

Start installation process by ensuring that all video displays and audio devices are compatible with the computers. This is accomplished by connecting the devices directly to the computer (bypassing the SX-200) and checking that the devices operate as desired.

If they operate as desired, they should function properly when connected to the SX-200.

If the device does not operate as desired when connected directly to the computer, something is wrong with the device, NOT the SX-200 unit since it is not yet connected.

What's in the box

SX-200 Package Content		
Qty	Description	Part Number
1	SX-200 Transmitter	SX-TX200
1	SX-200 Receiver	SX-RX200
2	1Power Supply	PS-5D1A-US
1	KVM Cable	CC-KVMMM-06

Optional Accessories		
1	3.5 mm Stereo Audio Cable	CC-MMAMM-06

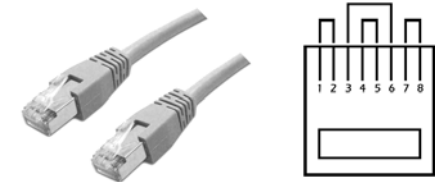
Preparing System CAT5 Cable

The SX-200 utilizes category 5 (CAT5), unshielded twisted pair (UTP) cable to transport signal between transmitter and receiver.

This cable is used for LAN applications and is found in abundance, already installed, in many buildings. The category 5 is a standard which establishes minimum requirements for telecommunications cabling within a commercial building. The standard covers various aspects of wiring including telecommunications outlets.

Following is the wiring standard for terminating CAT 5 cable using RJ 45 connector:

- Pair 1 Pins 1 & 2
- Pair 2 Pins 3 & 6
- Pair 3 Pins 4 & 5
- Pair 4 Pins 7 & 8



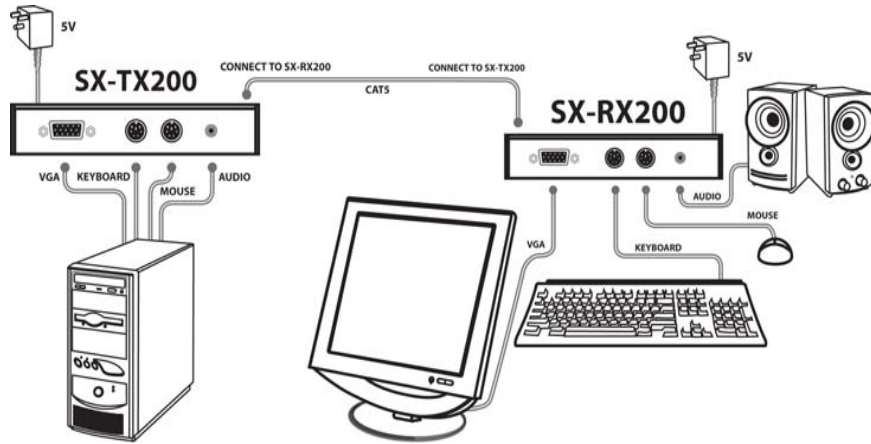
- Connectors:** RJ-45
- Capacitance:** 14 pf/ft (46.2 pf/m)
- Conductor Gauge:** 24 AWG
- Impedance:** 100 +/- 15 ohms
- 4 - Pair, (stranded) Foil Shielded

Video Gain Control

Observe monitors at transmitter and receiver end displaying the same data.

For best video quality at the remote location adjust gain control located on back of the receiver unit.

Before you power up, ensure that all cables are properly connected as shown in the diagram below.



SX-200 Installation Diagram

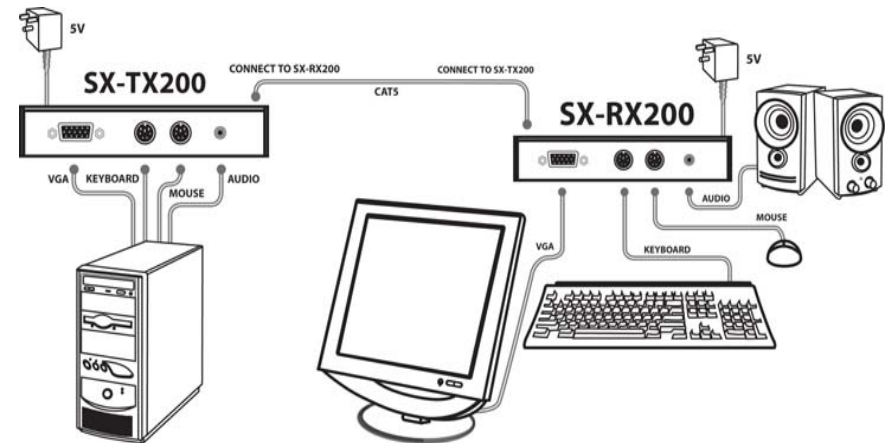
System Power Up

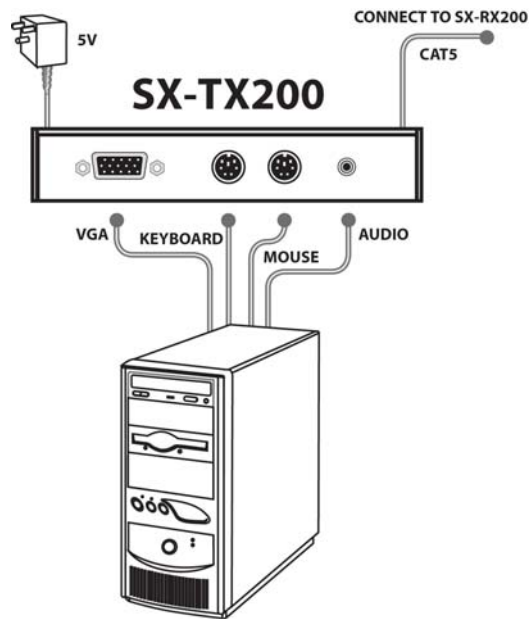
1. Connect the 5 Volt power supply to the transmitter
2. Turn the system on by plugging in the power adapter, if it is not yet connected.
3. Power up your computer.
4. Observe to see if both transmitter and receiver power LEDs are ON, and computer has finished the boot up process.
5. Observe monitor at receiver end to see if signal is going through.

Quick Start

1. Connect the video out, keyboard and mouse ports on your computer to the transmitter using the supplied KVM and audio cables.
3. Connect a power adapter to the transmitter and also to the receiver.
4. Connect a CAT5 cable to the transmitter and run it over to the receiver.
5. Connect peripherals to the receiver. I.E. keyboard, mouse, monitor, and optional serial device.

Once everything is connected power on your computer and the SX-200 units.

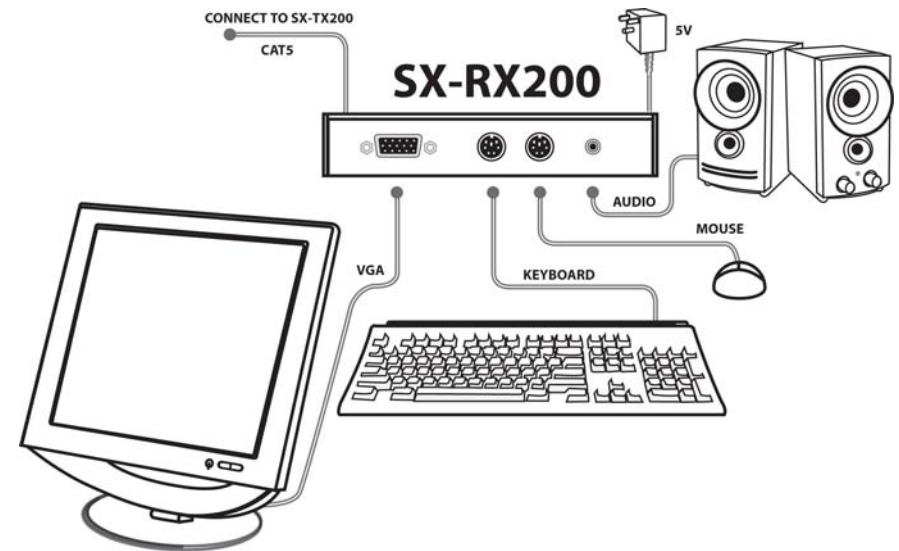




SX-200 Transmitter Connections

Connecting the Transmitter

1. Use the supplied KVM cable (male to male) to connect the video, keyboard and mouse ports from the computer into their respective ports on the SX-TX200.
2. Use a 3.5 mm Stereo Miniplug (male to male) to connect the audio out from your computer into the audio connector on the SX-TX200.
4. Connect the CAT5 cable that will connect to the Receiver Unit in the remote location.
5. Connect the external power supply to the DC IN connection.



SX-200 Receiver Connections

Connecting the Receiver

1. Connect your remote keyboard and mouse to the Keyboard-Mouse input port on the receiver.
2. Connect external speakers to the Audio OUT connection on the receiver.
3. Connect external monitor to the VGA Output on the receiver.
4. Connect the CAT5 cable coming from the transmitter.
5. Connect the external power supply to the DC IN connection.