

LDX SERIES

LONG RANGE DVI-D AND RS-232 EXTENDER



USER MANUAL

LDX	DVI-D and RS-232 Extender
LDX-2P	Dual Head DVI-D, USB 1.1, Dual RS232, Audio over CAT5/5e/6 Extender
LDX-4P	Quad Head DVI-D, USB 1.1, Dual RS232, Audio over CAT5/5e/6 Extender
LDX-PLUS	DVI-D, USB and RS232 over CAT5/5e/6 Extender



Designed and Manufactured in the USA

Smart-AVI

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www.smartavi.com

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TECHNICAL SPECIFICATIONS

VIDEO		
Format	DVI-D Single Line	
Maximum Pixel Clock	165 MHz	
Input Interface (TX)	LDX, LDX-PLUS	(1) DVI-D 29-pin female
	LDX-2P	(2) DVI-D 29-pin female
	LDX-4P	(4) DVI-D 29-pin female
Output Interface (RX)	LDX, LDX-PLUS	(1) DVI-D 29-pin female
	LDX-2P	(2) DVI-D 29-pin female
	LDX-4P	(4) DVI-D 29-pin female
Resolution	Up to 1920 x 1200 @ 60 Hz	
DDC	5 volts p-p (TTL)	
Input Equalization	Automatic	
Input Cable Length	Up to 20 ft	
Output Cable Length	Up to 20 ft	
RS-232		
Input Interface (TX)	LDX, LDX-2P, LDX-PLUS	(1) DB9 (Female)
	LDX-4P	(2) DB9 (Female)
Output Interface (RX)	LDX, LDX-2P, LDX-PLUS	(1) DB9 (Female)
	LDX-4P	(2) DB9 (Female)
Speed	Up to 115 Kbps	
AUDIO		
Input Interface (TX)	(1) 3.5 mm (Female)	
Output Interface (RX)	(1) 3.5 mm (Female)	
Frequency Response	30 KHz to 80 KHz	
OTHER		
Power	External 100-240 VAC/5VDC4A	
Operating Temperature	32-131°F (0-55 °C)	
Storage Temperature	-4-185 °F (-20-85 °C)	
Humidity	Up to 95%	

WHAT'S IN THE BOX?

PART NO.	Q-TY	DESCRIPTION
LDX-TX Unit	1	Single/Dual Head DVI, KVM and Audio Transmitter
LDX-RX Unit	1	Single/Dual Head DVI, KVM and Audio Receiver
PS5VD4A	2	PS5VD4A Power Supply
User Manual	1	

LDX-TX REAR



LDX-TX FRONT



LDX-RX REAR

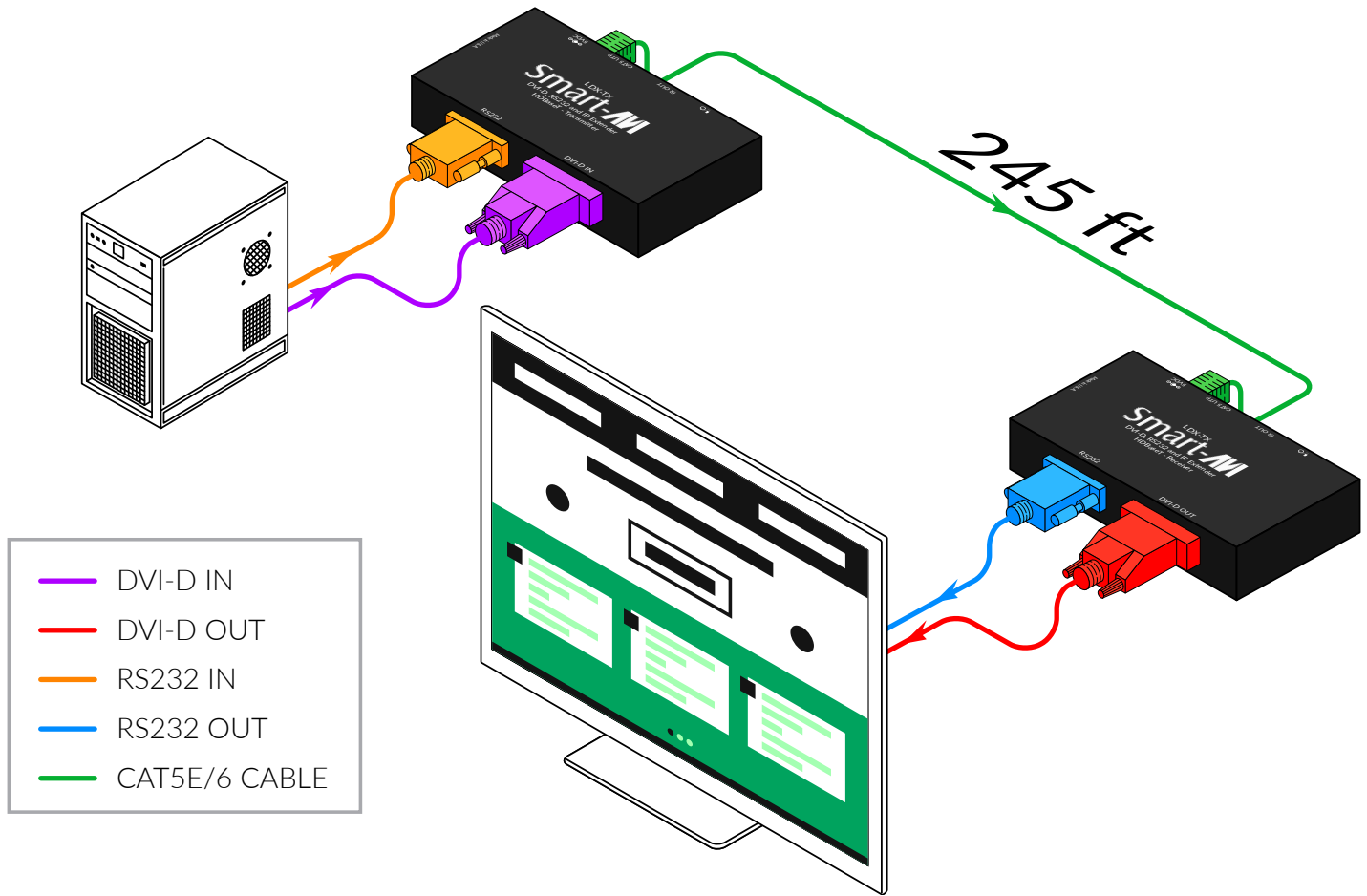


LDX-RX FRONT



INSTALLATION

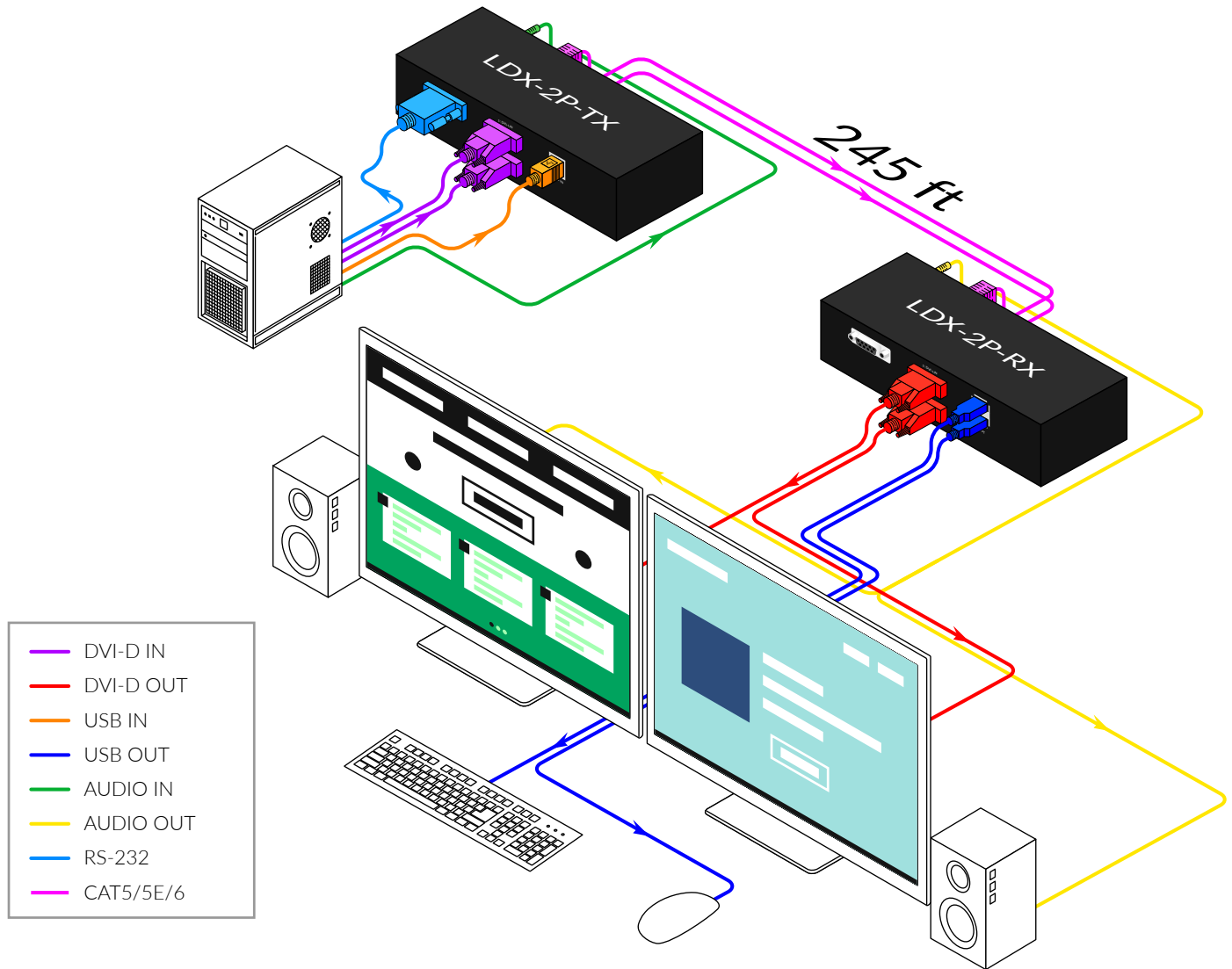
1. Turn off connected devices
2. Connect cables between signal source device and LDX-TX unit's input ports
3. Connect cables between the LDX-RX unit's output ports and end-point device
4. Connect LDX-TX and LDX-RX via CAT5e/6 cable
5. Connect power supply to either LDX-TX and LDX-RX units
6. Turn on LDX-TX and LDX-RX units
7. Return power to connected devices



PART NO.	DESCRIPTION
LDX-S	DVI-D and RS-232 Extender. Includes: [LDX-TX-S, LDX-RX-S, PS5VD2A-WLLMNT]
LDX-TX-S	DVI-D and RS-232 Transmitter. Includes: [LDX-TX-S, PS5VD2A-WLLMNT]
LDX-RX-S	DVI-D and RS-232 Receiver. Includes: [LDX-RX-S, PS5VD2A-WLLMNT]

INSTALLATION (CONTINUE)

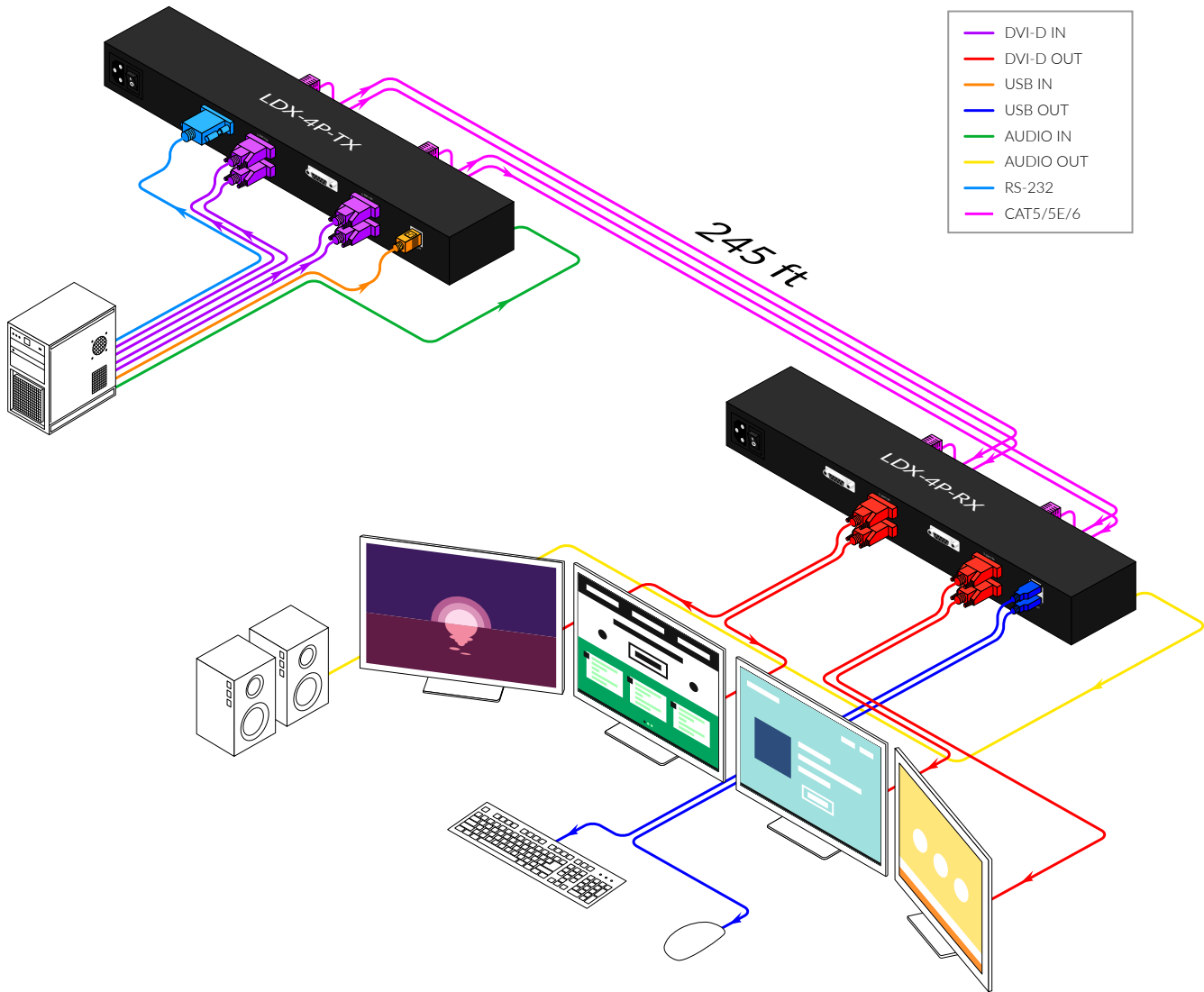
1. Power off all devices.
2. Connect two DVI-D sources (computer) to the two DVI-D ports on the back of the transmitter.
3. Connect a USB source (computer) to the USB port on the transmitter.
4. Optionally connect RS232 for control functions.
5. Connect the transmitter to the receiver with two CAT5 UTP (Unshielded Twisted Pair) cables.
6. Connect a DVI-D compatible display to each of the two DVI-D ports on the back of the receiver.
7. Connect USB keyboard and mouse to the USB ports on the receiver.
8. Optionally connect RS232 for control functions.
9. Connect the power to the receiver and the transmitter.
10. Power on the display and then the computer.



PART NO.	DESCRIPTION
LDX-2P-S	Dual DVI-D, USB 1.1, Dual RS232, Audio Extender. Includes: [LDX-2P-TX-S, LDX-2P-RX-S, PS5VD4A-WLLMNT]
LDX-2P-TX-S	Dual DVI-D, USB 1.1, Dual RS232, Audio Transmitter. Includes: [LDX-2P-TX-S, PS5VD4A-WLLMNT]
LDX-2P-RX-S	Dual DVI-D, USB 1.1, Dual RS232, Audio Receiver. Includes: [LDX-2P-TX-S, PS5VD4A-WLLMNT]

INSTALLATION (CONTINUE)

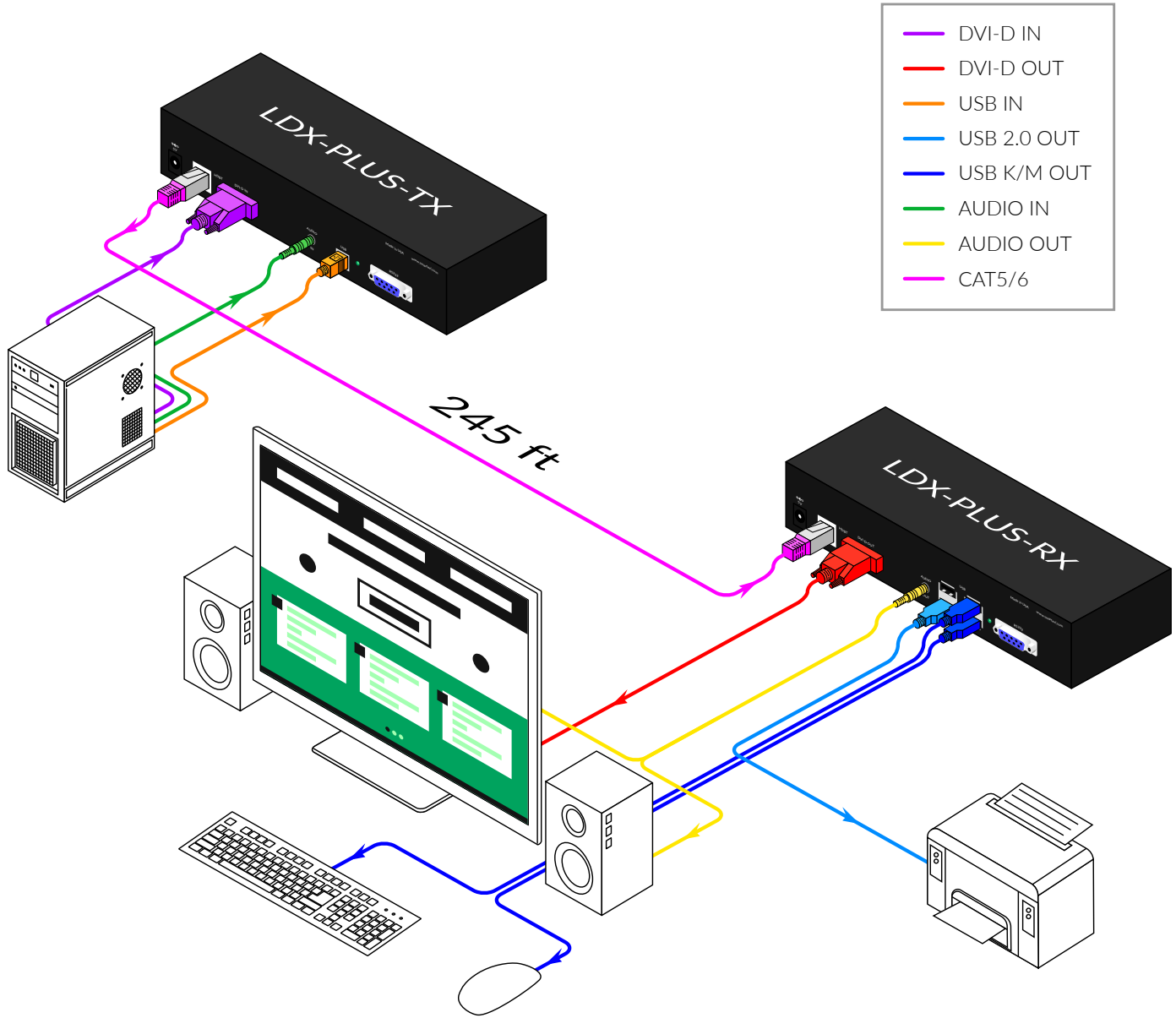
1. Power off all devices.
2. Connect two DVI-D sources (computer) to the four DVI-D ports on the back of the transmitter.
3. Connect a USB source (computer) to the USB port on the transmitter.
4. Optionally connect RS232 for control functions.
5. Connect the transmitter to the receiver with four CAT5 UTP (Unshielded Twisted Pair) cables.
6. Connect a DVI-D compatible display to each of the four DVI-D ports on the back of the receiver.
7. Connect USB keyboard and mouse to the USB ports on the receiver.
8. Optionally connect RS232 for control functions.
9. Connect the power to the receiver and the transmitter.
10. Power on the display and then the computer.



PART NO.	DESCRIPTION
LDX-4P-S	Quad DVI-D, USB 1.1, Dual RS232, Audio Extender. Includes: [LDX-4P-TX-S, LDX-4P-RX-S, PS5VD3A-WLLMNT]
LDX-4P-TX-S	Quad DVI-D, USB 1.1, Dual RS232, Audio Transmitter. Includes: [LDX-4P-TX-S, PS5VD3A-WLLMNT]
LDX-4P-RX-S	Quad DVI-D, USB 1.1, Dual RS232, Audio Receiver. Includes: [LDX-4P-TX-S, PS5VD3A-WLLMNT]

INSTALLATION (CONTINUE)

1. Turn off connected devices.
2. Connect cables between signal source device and LDX-PLUS-TX unit's input ports.
3. Connect cables between the LDX-PLUS-RX unit's output ports and end-point device.
4. Connect LDX-PLUS-TX and LDX-PLUS-RX via CAT5e/6 cable.
5. Connect power supply to either LDX-PLUS-TX or LDX-PLUS-RX units.
6. Turn on LDX-PLUS-TX and LDX-PLUS-RX units.
7. Return power to connected devices.



PART NO.	DESCRIPTION
LDX-PLUS-S	DVI-D, USB 1.1, RS232, and Audio Extender. Includes: [LDX-PLUS-TX-S, LDX-PLUS-RX-S, PS5VD4A-WLLMNT]
LDX-PLUS-TX-S	DVI-D, USB 1.1, RS232, and Audio Transmitter. Includes: [LDX-PLUS-TX-S, PS5VD4A-WLLMNT]
LDX-PLUS-RX-S	DVI-D, USB 1.1, RS232, and Audio Receiver. Includes: [LDX-PLUS-TX-S, PS5VD4A-WLLMNT]

TROUBLESHOOTING

No Power

- Make sure that the power adapter is securely connected to the power connector of the unit.
- Check the output voltage of the power supply and make sure that the voltage value is around 12VDC.
- Replace the power supply.

No Video

- Check if all the video cables are connected properly.
- Connect the computer directly to the monitor to verify that your monitor and computer are functioning properly.
- Restart the computers.

Keyboard is not working

- Check if the keyboard is properly connected to the unit.
- Check if the USB cables connecting the unit and the computers are properly connected.
- Try connecting the USB on the computer to a different port.
- Make sure that the keyboard works when directly connected to the computer.
- Replace the keyboard.

Mouse is not working

- Check if the mouse is properly connected to the unit.
- Try connecting the USB on the computer to a different port.
- Make sure that the mouse works when directly connected to the computer.
- Replace the mouse.

No Audio

- Check if all the audio cables are connected properly.
- Connect the speakers directly to the computer to verify that the speakers and the computer audio are functioning properly.
- Check the audio settings of the computer and verify that the audio output is through the speakers.

TECHNICAL SUPPORT

For product inquiries, warranty questions, or technical questions, please contact info@smartavi.com.

LIMITED WARRANTY STATEMENT

A. Extent of limited warranty

SmartAVI, Inc. warrants to the end-user customers that the 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.

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

If SmartAVI receives, during applicable warranty period, a 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.

SmartAVI shall have no obligation to repair, replace or refund unit until customer returns defective product to SmartAVI.

Any replacement product could be new or like new, provided that it has functionality at least equal to that of the product being replaced.

SmartAVI 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, neither SmartAVI nor 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 customers 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.

Smart-AVI

SMART AUDIO VIDEO INNOVATION

NOTICE

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