

# What's in the Box?

PART NO.	QTY	DESCRIPTION
RK-DVX-Plus-TX4S		Powered Rack/Chassis with DVI-D/USB CAT6 STP Transmitter, 4 Card Package. Includes: [RK-DVX-Plus-TX4 and CCPWR06]
RK-DVX-Plus-TX8S		Powered Rack/Chassis with DVI-D/USB CAT6 STP Transmitter, 8 Card Package. Includes: [RK-DVX-Plus-TX8 and CCPWR06]
RK-DVX-Plus-TX16S		Powered Rack/Chassis with DVI-D/USB CAT6 STP Transmitter, 16 Card Package. Includes: [RK-DVX-Plus-TX16 and CCPWR06]
RK-DVX-PLUS-RX4S		Powered Rack/Chassis with DVI-D/USB CAT6 STP Receiver, 4 Card Package. Includes: [RK-DVX-PLUS-RX4 & CCPWR06]
RK-DVX-PLUS-RX8S		Powered Rack/Chassis with DVI-D/USB CAT6 STP Receiver, 8 Card Package. Includes: [RK-DVX-PLUS-RX8 & CCPWR06]
RK-DVX-PLUS-RX16S		Powered Rack/Chassis with DVI-D/USB CAT6 STP Receiver, 16 Card Package. Includes: [RK-DVX-PLUS-RX16 & CCPWR06]
DVXU-RXS		DVI/USB CAT6 STP Receiver. Includes: [DVXU-RX and (PS5VD2A)]

# Technical Specifications\*

VIDEO	
Format	DVI-D Single Line
Maximum Pixel Clock	165 MHz
Input Interface (TX)	16 DVI-D 29-pin female
Output Interface (RX)	DVI-D 29-pin female
Resolution	Up to 1920 x 1200 @60Hz
DDC	5 volts p-p(TTL)
Input Equalization	Automatic
Input Cable Length	Up to 20 ft.
Output Cable Length	Up to 20 ft.
USB	
Signal Type	USB 1.1 (Fully Transparent)
Input Interface (TX)	16 x (1) USB Type B (Female)
Output Interface (RX)	(4) USB Type A (Female)
OTHER	
Power	Internal 110-240 VAC
Dimensions	17 in W x 7 in H x 3.25 in D
Weight	10 lb
Operating Temp.	0-55 °C (32-131°F)
Storage Temp.	-20-85 °C (-4-185 °F)
Humidity	Up to 95%

\*specifications shown are for 16-Port option

© Copyright 2011 Smart-AVI, All Rights Reserved

## NOTICE

The information contained in this document is subject to change without notice. Smart-AVI 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.

Smart-AVI 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.

No part of this document may be photocopied, reproduced or translated into another language without prior written consent from Smart-AVI.

For more information, visit [www.smartavi.com](http://www.smartavi.com).



# Installation Manual

## RK-DVX-Plus 16-Port Dual DVI-D and USB 1.1 Extender over STP



## 16-Port Dual DVI-D and USB 1.1 Extender up to 275 feet over STP Cable



SmartAVI, Inc. / Twitter: smartavi  
11651 Vanowen St. North Hollywood, CA 91605  
Tel: (818) 503-6200 Fax: (818) 503-6208  
<http://www.SmartAVI.com>

[www.smartavi.com](http://www.smartavi.com)

## Introduction

The RK-DVX-Plus is the perfect solution for extending DVI-D and USB 1.1 signals to a remote location up to 275 feet away. It is the ideal way to consolidate up to 16 workstation computers into one location. The RK-DVX-Plus features DVI-D extension up to 275 feet over STP. It is fully compatible with MAC, PC and LINUX DVI standards.

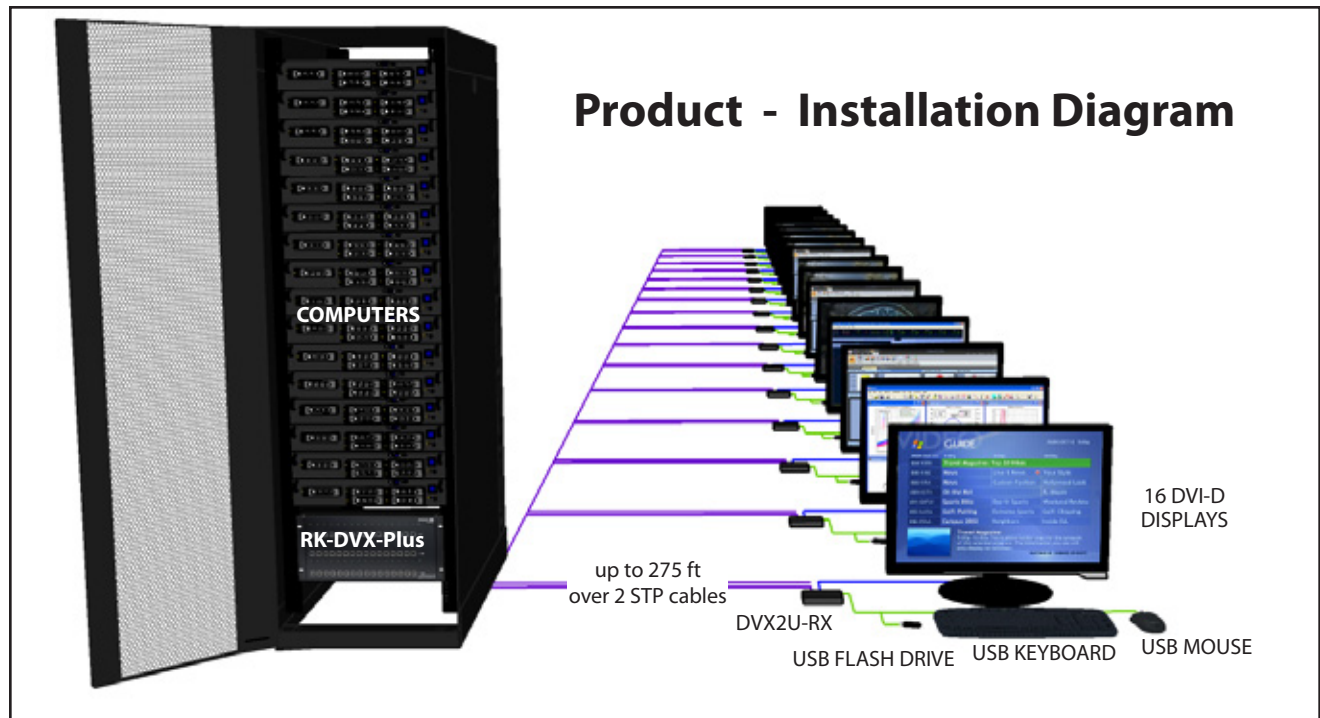
The RK-DVX-Plus also features transparent USB 1.1 signal extension, with full support for all USB 1.1 devices and an integrated 4-port hub in the receiver. Flash Drives, Printers, Cameras, Scanners, etc. may all be used with the RK-DVX-Plus.

## Features






- Supports DVI-D single-link
- Supports Mac, PC, and Linux DVI
- Supports High Resolution 1920x1200 60Hz WUXGA
- Distance: 275 feet with three CAT6 STP cables
- Uses universal DVI Single Link connectors
- Zero pixel loss with TMDS signal correction
- DDC from internal table for Mac/PC
- Supports all USB 1.1 Devices Transparently (Flash Drives, Printers, etc.)
- Supports USB 1.1 keyboard and mouse
- Compatible with all operating systems
- Compatible with all major KVM switches
- Rack Mountable Solution
- Data recovery for digital video
- Supports 1.5 and 12Mbps data rates
- Plug-and-play


## Applications

- Medical Applications
- Industrial Work Areas
- Home Theater Integration
- Digital Signage Deployment
- Information Kiosks/Displays
- Film/Recording Studios



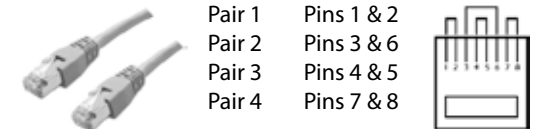
## Connecting the RK-DVX-Plus

1. Power off all devices.
2. Connect DVI-D sources (computers) to each of the 16 DVI-D ports on the rear of the RK-DVX-Plus-TX labeled 
3. Connect USB sources to each of the 16 USB ports on the rear of the the RK-DVX-Plus-TX labeled 
4. Connect the RK-DVX-Plus-TX to the the DVX2U-RX with three STP (Sheilded Twisted Pair) cables using each the front ports labeled 
5. Connect a DVI monitor to the port on the rear of the DVX-Plus-RX labeled 
6. Connect up to 4 USB 1.1 devices to the ports on the DVX-Plus-RX labeled 
7. Connect the power to the ports labeled **POWER**

**110-240V** on the RK-DVX-Plus-TX and  on the DVX-Plus-RX.

8. Power on the computers, displays and USB 1.1 devices.

The following is the wiring standard for terminating UTP/STP cable using RJ-45 connector:



Connectors: RJ-45  
Capacitance: 14 pf/ft (46.2 pf/m)  
Conductor Gauge: 24 AWG  
Impedance: 100 +/- 15 ohms