DVI-D KVM EXTENDER-PC DVI- KVM-EXTENDER

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1 Quick Setup

This section briefly describes how to install your KVM extender system. Unless you are an experienced user, we recommend that you follow the full procedures described in the rest of this manual..

Install system

- Connect Remote unit to KVM.
- Connect Local unit to CPU or switch. 2
- Connect Local and Remote units with matching interconnection cable 3. (Multimode/Singlemode fibres).
- 4. Power up the system.



2 Installation

For first-time users, we recommend that you carry out a test placement, confined to a single room, before commencing full installation. This will allow you to identify and solve any cabling problems, and experiment with the KVM extender system more conveniently.

2.1 Package Contents

You should receive the following items in your extender package (all types):

- DVI-D KVM Extender KVM-Extender- pair (Local Unit + Remote Unit)
- 2x 5V DC universal power supply for the DVI-D KVM Extender Extender
- 2x German type power cord
- Quick Install Guide
- CDROM with user manual
- KVM CPU cable set (1.8m) consisting of 1.8m USB-A/B cable and 1.8m DVI-D M/M cable

ACS4201A-xx (additionally):

• 1.8m DVI-D M/M cable

If anything is missing, please contact Technical Support



To install your DVI-D KVM Extender - Extender system:

- Switch off all devices. 1.
 - Connect your keyboard, monitor(s) and mouse to the Remote unit.
- 2. Using the supplied CPU KVM cable(s), connect the USB and monitor(s) connectors on the 3. computer (or KVM switch).
- Connect the interconnect cable to the INTERCONNECT socket(s) 4. 5.
 - Connect the 5V power supply to power the unit.

Only use the power supply originally supplied with this equipment or a manufacturer-approved replacement.

6. For a dual access system, connect the USB (keyboard, mouse) and monitor for the Local console to the appropriate ports on the Local unit. The ports may also be used to feed into a KVM switch. For dual access, you may feed your local monitor into the DVI-D output connector at the local unit. To attach a second keyboard/mouse, please use additional USB port(s) at your CPU or use a USB Hub inbetween CPU and local unit's USB connector. 7. Power up the system.

2.3 Interconnection Cable Requirements

To connect the Local and Remote units you will need:

- DVI, USB-Keyboard, USB-Mouse: Connect the supplied KVM CPU cable set to your CPU ٠ (KVM.- Switch, etc.). Please ensure that the connection is tension-free! Devices ACS4001A-xx + ACS4201A-xx
- DVI: Connect the supplied DVI CPU cable set to your CPU (KVM.- Switch, etc.). Please ensure that the connection is tension-free! Devices ACS4201A-xx
- Fibre Cable: Two strands of fibre are required for singlehead devices, four strands for • Dualhead devices.

Please note, that the allowed distance will depend on device type AND on used fibre type.

- Recommended cables: ACSxxxxA-MM: Multimode type 50/125µ ACSxxxxA-MM: Multimode type 62.5/125µ ACSxxxxA-SM: Singlemode type 9/125µ
- allowed distance app. 400m (1,300ft) allowed distance app. 200m (650ft) allowed distance app. 10km (32,750ft)



3 Device view (depending on device type)



DVI-D KVM Extender KVM-Extender Type ACS4001A-xx Local Unit







2nd remote DVI-Monitor port Connect to Remote console 2nd monitor



Monitor port- connect to Remote console 1 monitor

DVI-D KVM Extender KVM-Extender Type ACS4201A-xx Remote Unit

DVI-D KVM Extender KVM-Extender Type ACS4201A-xx Local Unit

DVI-D KVM Extender KVM-Extender Type ACS4001A-xx Remote Unit



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DVI-D KVM Extender KVM-Extender Type ACS4001A-xx Local/ Remote Unit



DVI-D KVM Extender KVM-Extender Type ACS4201A-xx Local/ Remote Unit

3.1 Diagnostic LEDs

Each DVI-D KVM Extender KVM-Extender is fitted with four indicator LEDs: Power, Video OK, Data Error, Link Status: The Power LEDs are next to the Power socket.

The location of the LEDs is shown below:



LED	Appearance	Diagnostics
Power LED	Off	Device not ready
(Red LED)	On	Device ready
Video Okay	Off	No or invalid video signal detected
(Green LED)	On	Device ready
Link Status	blinking	No Fibre connection
(Green LED)	On	Device ready
Data Error (Red LED)	Off blinking / On	Device ready Errors through data transmission over Fibre Cable (Cable too long, too high attenuation or too much EMI interferences)



4 Troubleshooting

There isn't a picture.

Check the power supply connection at the Local unit. Is the Power (Red LED) at the Local unit illuminated? If not, the internal power-supply may be damaged or there may be an internal error.

Check the power supply connection at the remote unit. Is the Power (Red LED) at the Remote unit illuminated? If not, the internal power-supply may be damaged or there may be an internal error.

Check that the Interconnection cable is connected at the Local Unit and the Remote Unit. Is the Link Status LED illuminated? If not, there may be a problem with the Interconnection cable:

Are there Errors through data transmission over fibre Cable (Cable too long, too high attenuation or too much EMI interferences)? Is the Data Error LED illuminated or blinking ? If yes, check cable length and environment.

Video Okay LED is dark: CPU does not provide a video signal – Check settings of the graphic card. Try out, connecting a monitor to the local output, to see, whether ther is a signal or not.

USB-Keyboard/USB-Mouse

Your USB-keyboard/USB-mouse does not work

Although we tried to design the devices as transparent as possible, we can't ensure that all devices are running. Please check in the manual the list of the tested devices.

USB-HID devices

Your USB-HID device does not work

Although our interface supports HID devices, we can't ensure that every connected device is running. In case of a malfunction please contact our technical support.

Other USB-devices

Your USB- device does not work

You have connected a non-HID device. Only HID devices are supported. All other devices are dismissed

DVI-D-Fibre-KVM-Extender Singlemode/Multimode Single and DualHead

Diagnostic - LEDs at DVI-D KVM Extender

BLACK BOX® NETWORK SERVICES

ACS4001A-MM ACS4201A-MM ACS4001A-SM ACS4201A-SM

(Quick Setup)

http://www.blackbox.com

Black Box Network Services -The world's largest network services company We are, with 25 years of experience, the world leader in network infrastructure services.