ACS253A DIGITAL DVI/VGA-KVM-EXTENDER

This section briefly describes how to install your KVM extender system and optimize the video

signals. Unless you are an experienced user, we recommend that you follow the full procedures

Connect Local and Remote units with matching interconnection cable

No

No

Yes

Do vou

have a flat screen

(TFT)?

Carry out the Monitor Setup procedure (please

refer to its manual and see page 40 in this manual).

Yes

described in the rest of this manual. Refer to the command summary when following this procedure.

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2.2 System Setup

To install your ACS253A - DVI KVM Extender system:

- Switch off all devices.
- Connect your keyboard, monitor(s) and mouse to the Remote unit as shown below (ACS253A-2. CT), (ACS253A-MM/ACS253A-SM) or (ACS253A-U-MM/ACS253A-U-MM).

These ports may also be attached to the CPU side of a KVM switch in order to H have a Remote CPU. However, if you are attempting to use the extender between cascaded KVM switches this may not work. Please contact Technical Support to discuss your application.

- Connect the interconnect cable to the INTERCONNECT socket(s) as shown below (ACS253A-3. CT), (ACS253A-MM/ACS253A-SM) or (ACS253A-U-MM/ACS253A-U-MM).
- Connect the 6V power supply to power the unit. 4.

Only use the power supply originally supplied with this

5. Using the supplied CPU KVM cable(s), connect the keyboard, monitor(s) and mouse connectors on the computer (or KVM switch) to the corresponding connectors on the Local unit as shown below (ACS253A-CT), (ACS253A-MM/ACS253A-SM) or (ACS253A-U-MM/ACS253A-U-MM).

Ensure that you attach the keyboard and mouse connectors to the correct ports. The keyboard connector is purple; the mouse connector is green.

If your PC does not have a PS/2 mouse port, an active serial converter will be reauired

INTERCONNECT - carries video and data

firmware upgrades

- For a dual access system, connect the keyboard, mouse and monitor for the Local console to the 6. appropriate ports on the Local unit. The ports may also be used to feed into a KVM switch.
- Connect the Interconnection cable from the Remote unit to the INTERCONNECT socket on the Local unit as shown below (ACS253A-CT), (ACS253A-MM/ACS253A-SM) or (ACS253A-U-MM/ACS253A-U-MM).
- 8. Power up the system.

Connect to PS/2 keyboard and

3 Device View (depending on device type)



- Extender Local/Remote unit.
- 2x 6V DC 12W universal power supply for Local/Remote unit.
- 2x DVI-I to VGA adapter (DVI-I dual link male to HD15 female) connector. 1x VGA to DVI-I adapter (HD15 male to DVI-I dual link female) connector.
- Programming cable (DB9 female to RJ11 4p4c).
- User manual (Quick Setup).

2 Installation

1 Quick Setup

Install system

2.

3.

Connect Remote unit to KVM. Connect Local unit to CPU or switch.

Power up the system.

Yes

Do you have a DVI monitor?

Do you have a

DVI source?

Done

No

(please follow the instructions on page 42).

Carry out VGA Input Setup procedure

(CATx, Multimode or Singlemode fiber).

- 2x US-type power cord
- All PS/2 models are supplied with:

2.1 Package Contents

please contact Technical Support:

- KVM CPU cable set (1.8m) with PS/2 (6-pin mini-DIN male-to-male) keyboard and mouse connector and DVI-I video (DVI-I dual link male-to-male) connector
- All USB types are supplied with: DVI-I video cable (DVI-I dual link male-to-male)
- USB cable (USB type A to type B)
- 5V DC 12W universal power supply for Remote unit (only required when connecting two or more High Power USB
- US-type power cord (additional)



DVI-I Connectors

ACS253A-CT Local Unit





4xUSB connectors for keyboard, mouse and other











equipment or a manufacturer-approved replacement.

ACS253A-U-MM/ACS253A-U-MM Local Unit

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3.1 Diagnostic LEDs

Each Extender unit is fitted with four indicator LEDs: Communication Error, Link Status, Device Ready and Video Signal. The Indicator LEDs are located in the same positions on all models in the ACS253A - DVI KVM Extender range. The Communication Error and Link Status LEDs are to the left and right, respectively, of the Interconnect sockets. The Device Ready and Video Signal LEDs are next to the Power socket.

As an example, the location of the LEDs is shown below for ACS253A-CT Remote and Local units:



Figure 1 Diagnostic LEDs on Remote (left) and Local (right) units

| LED | Appearance | Diagnostics | |
|-----------------------------|-----------------|---|--|
| Communication Error | Off Flashing | No communication error for >60 minutes Indicates number of communication errors during previous 60 minutes: | |
| | fast | 100-1000 (CATx) 3-10 (Fiber) >1000 (CATx) >10 (Fiber) | |
| Link Status | On Flashing |) minutes after previous communication error. Link connection is locked Interconnection cable not connected or not functioning | |
| Device Ready (Red LED) | Off On | Device not ready Device ready | |
| Video Signal (Green LED) | Off On | No video signal or valid mode detected Attached and valid mode detected | |

Device Control

If you are using the DVI output from your video card and the DVI input to a TFT monitor, no adjustment should be required. In other cases, when the video signal is converted between analog and digital formats, either by the Local unit and/or the monitor, you may need to optimize the video signal using the Extender's on-screen display (OSD).



You can adjust the following properties using the OSD:

- ٠ Adaptation to analog signal sources (VGA/RGB) - see also manual
- Color temperature
- ٠ Brightness/contrast
- Saturation
- OSD operation, factory reset. •

4.1 Opening the OSD

You can access the OSD in two ways:

• Using the keyboard attached to the Remote Unit:

Using our small WINDOWSTM program with a serial connection to the programming port. • While the OSD is active, the mouse is locked and only menu keystrokes are allowed at the keyboard. To indicate that the OSD mode is active, the status LEDs (Num Lock, Caps Lock and Scroll Lock) are flashed. There is a summary of OSD commands in the manual.

4.1.1 Using the keyboard attached to the Remote Unit

Type the following key sequence at the Remote console keyboard:

<Ctrl> + <Shift> + < I >

Note. On some keyboards, <Ctrl> is replaced by <Strg>.

To navigate within the OSD:

- Use the left and right arrow keys to highlight a submenu and/or function. •
- Press the <ENTER> key to select the highlighted submenu or function. •
- Select the Exit icon to go back to the previous menu level.
- Press the <ESC> key to exit the OSD mode.

4.1.2 Using our WINDOWS[™] program

On all devices, you can use our small WINDOWS™ program, running on a WINDOWS™ computer for OSD access:

- Download the program from our server
- Connect the programming cable to the programming port of the Remote unit. •
- Connect the programming cable to the serial port of your computer, where the program is running.
- Start the program and follow the on-screen instructions.
- Type in the following key sequence:
 - < **O** > + < **S** > + < **D** > followed by <**ENTER**>

When the OSD starts, it displays information about the attached device and firmware version, for example:

| Company Name | : BlackBox |
|--------------|----------------|
| Modul Name | : ACS253A-12lo |
| Version | : Vers.1.3 |
| Date | : 03/05/15 |

To navigate within the OSD:

- Use the <L> and <R> keys to highlight a submenu and/or function. •
- Press the <S> key to select the highlighted submenu or function. ٠
- Select the Exit button to go back to the previous menu level. •

Press the <X> key to exit the OSD mode.









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BLACK BOX® NETWORK SERVICES

DVI/VGA-KVM-Extender

ACS253A-MM ACS253A-SM ACS253A-CT ACS253A-U-MM ACS253A-U-MM

(Quick Setup)

http://www.blackbox.com

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