1 Quick Setup

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 described in this manual. Refer to the Command Summary when following this procedure.

**Install system**
1. Connect Remote unit to KVM.
2. Connect Local unit to CPU or switch.
3. Connect Local and Remote units with matching interconnection cable (CATx, Multimode or Singlemode fiber).
4. Power up the system.

**Do you have a DVI monitor?**

- **Yes**
  - Connect to Remote console monitor
  - Connect 6V Power supply
  - Programmer connector – for firmware upgrades

- **No**
  - Carry out Monitor Setup procedure (please refer to its manual and see page 40 in this manual).

**Do you have a flat screen (TFT)?**

- **Yes**
  - Carry out VGA Input Setup procedure (please follow the instructions on page 42).
  - Connect 5V Power supply for USB input
  - US-type power cord

- **No**
  - Do you have a DVI source?
    - **Yes**
      - Connect Interconnection cable
      - Connect to Local unit
    - **No**
      - Connect Programming connector – for firmware upgrades

**Device View (depending on device type)**

- **K439-1W Local Unit**
  - Connect 6V Power supply
  - Connect to CPU’s keyboard and mouse sockets
  - Connect to Remote console monitor
  - INTERCONNECT – carries video and data signals – connect to Local unit with CATx cable

- **K439-1W Remote Unit**
  - Connect to PS/2 keyboard and mouse using supplied cables
  - INTERCONNECT – carries video and data signals – connect to Remote unit with CATx cable

- **K442-3U/K443-3U Local Unit**
  - Connect to Remote console monitor
  - Connect to Local unit
  - Connect 6V Power supply

- **K442-3U/K443-3U Remote Unit**
  - Connect to Remote console monitor
  - Connect to Local unit
  - Connect 6V Power supply

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) If anything is missing, please contact Technical Support:

- **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.**
- **5V Power supply for Remote unit (only required when connecting two or more High Power USB devices, for example, printer or UPS).**
- **Programming cable (DB9 female to RJ11 4p4c).**
- **User manual (Quick Setup).**
- **2x German-type power cord.**
- **All PS/2 models are supplied with:**
  - KVM CPU cable set (1.8m) with PS2 (6-pin mini-DIN male-to-male) keyboard and mouse connector and DVI-I video (DVI-I dual link male-to-male) connector
  - DVI-I video cable
  - USB cable (USB type A to type B)
  - SV DC 12W universal power supply for Remote unit (only required when connecting two or more High Power USB devices)
  - US-type power cord (additional)
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 DDXI - 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 K439-1W Remote and Local units:

![DDXI V1.00 DVI/VGA-KVM-Extender](image)

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

<table>
<thead>
<tr>
<th>LED</th>
<th>Appearance</th>
<th>Diagnostics</th>
</tr>
</thead>
<tbody>
<tr>
<td>Communication Error</td>
<td>Off</td>
<td>No communication error for &gt;60 minutes</td>
</tr>
<tr>
<td></td>
<td>Flashing</td>
<td>Indicates number of communication errors during previous 60 minutes:</td>
</tr>
<tr>
<td></td>
<td></td>
<td>slow: 10-100 (CATx) - 1-2 (Fiber)</td>
</tr>
<tr>
<td></td>
<td></td>
<td>medium: 100-1000 (CATx) - 3-10 (Fiber)</td>
</tr>
<tr>
<td></td>
<td></td>
<td>fast: &gt;1000 (CATx) - &gt;10 (Fiber)</td>
</tr>
</tbody>
</table>

Error counter cleared automatically 60 minutes after previous communication error.

<table>
<thead>
<tr>
<th>Link Status</th>
<th>Appearance</th>
<th>Diagnostics</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td>On</td>
<td>Link connection is locked Interconnection cable not connected or not functioning</td>
</tr>
<tr>
<td></td>
<td>Flashing</td>
<td></td>
</tr>
<tr>
<td>Device Ready</td>
<td>Off</td>
<td>Device not ready</td>
</tr>
<tr>
<td>(Red LED)</td>
<td>On</td>
<td>Device ready</td>
</tr>
<tr>
<td>Video Signal</td>
<td>Off</td>
<td>No video signal or valid mode detected</td>
</tr>
<tr>
<td>(Green LED)</td>
<td>On</td>
<td>Attached and valid mode detected</td>
</tr>
</tbody>
</table>

4 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:

- Adaptation to analog signal sources (VGA/RGB) – see also manual, page "Fehler! Textmarke nicht definiert."
- Color temperature
- 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 WINDOWS™ program with a serial connection to the programming port of the LOCAL UNIT.

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.

4.1.1 Using the keyboard attached to the Remote Unit

Type the following key sequence at the Remote console keyboard:

\(<\text{Ctrl}> + <\text{Shift}> + <\text{I}>\)

Note. On some keyboards, \(<\text{Ctrl}>\) is replaced by \(<\text{Strg}>\).

To navigate within the OSD:

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

4.1.2 Using our WINDOWS™ program attached to the LOCAL UNIT

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 LOCAL 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: \(<\text{ENTER}>\)

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

<table>
<thead>
<tr>
<th>Modul Name</th>
<th>Version</th>
<th>Date</th>
</tr>
</thead>
<tbody>
<tr>
<td>DVI-KVM-12lo</td>
<td>Vers.1.3</td>
<td>03/05/15</td>
</tr>
</tbody>
</table>

To navigate within the OSD:

- Use the \(<\text{L}>\) and \(<\text{R}>\) keys to highlight a submenu and/or function.
- Press the \(<\text{S}>\) key to select the highlighted submenu or function.
- Select the Exit button to go back to the previous menu level.
- Press the \(<\text{X}>\) key to exit the OSD mode.