USER MANUAL

4K Extender DP 1.2
KT-6930 media4Kconnect DP1.2
KT-6950 redundant
KT-6970 unkomprimiert

Check out our Installation Channel:

Misprints, errors and technical changes reserved
Do you want to learn more? Then simply click on the respective button and you will be forwarded directly to our homepage!
TABLE OF CONTENT

3.3 Update menu 25
3.4 Settings 28
3.4.1 Defining what DDC data your PC uses 29
3.4.2 Select keyboard layout 30
3.4.3 Keyboard shortcuts 31
3.4.4 Keyboard Fallback Mode 32
3.4.5 Mouse Settings 32
3.4.6 Managing Local Settings 33
3.4.7 Monitor power save mode 35

4. Extender Features 36
4.1 Menu Features 36
4.1.1 point to point 36
4.1.2 Matrix Switching System 37
4.1.3 USB Save feature 37
4.1.4 Mouse glide & switch 37
4.1.6 USB Emulation Mode 37
4.1.6 Uncompressed Mode 38
4.1.7 Unlock Features redundant or uncompressed for Switching Systems 38

5. Maintance & Care 39
5.1 Extender Care 39

6. Support & First Aid 40
7. Cable requirements 42
7.1 Requirements fiber cable 42
7.1.Multi-Mode (standard) 42
8. Switch specification 43
8.1 Switches 43
9. Warranty 44
9.1 extended warranty 44
10. Address & phone / emails 45
11. Notes 46
Congratulations on the purchase of your new media4Kconnect DP1.2 KVM Extender. You have bought a high quality extender. These instructions are part of this product. They contain important information regarding safety, use and disposal for every user of the media4Kconnect DP1.2 Extender. Please familiarise yourself with the information within prior to using your product. Use the product only in the manner as described and for the areas of application as stated. Following proper use and maintenance, your media4Kconnect KVM Extender will bring you joy for many years to come.

1. INTRODUCTION

1.1 INTENDED USE

This product is intended as a device for professional use, for transmitting USB and video signals over huge distances. The product may only be used according to the instructions as described in this manual. All use, other than that described in this manual, is seen as unintended use. Modifications in the course of technological progress are reserved. In these user instructions the media4Kconnect DP1.2 is referred to as 'product' or 'extender'. The media4Kconnect DP1.2 /PC is referred to as the Local unit/CPU and the media4Kconnect/Monitor is referred to as the Remote unit/CON.
1. INTRODUCTION

1.2 SAFETY INSTRUCTIONS

WARNING! Read and understand all safety instructions

• Follow all the instructions. This will avoid accidents, fire, explosions, electric shocks or other hazards that may result in damage to property and/or severe or fatal injuries. Please ensure that everyone who uses the product has read and followed these warnings and instructions.

• Keep all safety information and instructions for future reference and pass them on to subsequent users of the product.

• This product is not intended for use by persons (including children) with restricted physical, sensory or intellectual capability or lack of experience and/or knowledge, unless they are supervised by a person who is responsible for their safety or provides them with instructions on how to use the product.

• Danger! Not for use in potentially explosive environments

• Danger! Be vigilant at all times, and always take care around this product. Do not use electrical equipment if you are lacking in concentration or awareness, or are under the influence of drugs, alcohol or medication. Even a moment of inattentiveness can lead to serious accidents and injuries when using electrical equipment. Check the product and the cables for any damage before use. If there is any visible damage, a strong odour, or excessive overheating of components unplug all the connections immediately and stop using the product

• If the product is not installed and used in accordance with this manual, it may cause disruptive interference with radio or television reception or affect other electronic products in residential areas.

• Prior to connecting to the mains, make sure your local mains voltage matches the rating indicated on the product.

• The product must be connected to a permanent and earthed AC wall socket

• Protect the cables from tension, crushing and buckling and lay them so that people cannot trip over them.

• Use the device with a suitable, properly installed and easily accessible power outlet.

• Unplug the appliance during lightning storms or when not in use.

• Danger! Never touch the adapter with wet hands.

• Use the product within the specified performance limits.

• Do not place the product near heaters

• Do not drop or hit the product.

• Unplug all connections before cleaning the product. Do not use wipes or chemicals as these could damage the surface. Wipe the housing with a damp cloth. Electrical/electronic parts must not be cleaned

• Alterations to the product and technical modifications are not permitted

• Use the device with a suitable, properly installed and easily accessible power outlet. The appliance plug serves as a disconnection point.
1.3 TECHNICAL SPECIFICATIONS

Type: KVM Extender (local unit-CPU und remote unit-CON)
Model: media4Kconnect Fiber KVM Extender

Power plug input voltage 2 x 12 VDC 2 A
external Power supply redundant

supply tolerances DC: +20% / -15%

Redundant Power supply 12 VDC > 2A

Power requirement 12W without USB devices

Operating temperature 0 °C to 45 °C (32 bis 113 °F)

Storage temperature −25 °C bis 80 °C (-13 to 176 °F)

Relativ humidity: max. 80% (not condensing)

Casing material: anodized aluminum

Dimension: Local (CPU): B104 x H32 x D175 mm/B4.2 x H1.69 x D7.2 4inch, 610g/1.34 lb.
Weight Remote (CON): B104 x H32 x D175 mm/B4.2 x H1.69 x D7.2 4inch, 620g/1.36 lb.

Shipment weight 3040g/ 6.7 lb.

Expected product life 82 820 hours / 10 years

1.4 PRODUCT ELEMENTS

Remote Extender (CON)

<table>
<thead>
<tr>
<th>Nr.</th>
<th>Name</th>
<th>Function</th>
</tr>
</thead>
<tbody>
<tr>
<td>1</td>
<td>DC</td>
<td>Connection for 12V/2A power supply 1 1</td>
</tr>
<tr>
<td>2</td>
<td>DC</td>
<td>Connection for 12V/2A power supply 2</td>
</tr>
<tr>
<td>3</td>
<td>Status LED</td>
<td>Status LED for Network secondary</td>
</tr>
<tr>
<td>4</td>
<td>Status LED</td>
<td>Status LED for Netzwerk main</td>
</tr>
<tr>
<td>5</td>
<td>kvm-link</td>
<td>Connection for fibericable main</td>
</tr>
<tr>
<td>6</td>
<td>kvm-link</td>
<td>Connection for fibericable secondary</td>
</tr>
<tr>
<td>7</td>
<td>dp out</td>
<td>DisplayPort 1.2 output to monitor</td>
</tr>
<tr>
<td>8</td>
<td>USB</td>
<td>USB 2.0 to keyboard/ mouse etc.</td>
</tr>
<tr>
<td>9</td>
<td>Power/Status LED</td>
<td>Display of Extender Status</td>
</tr>
</tbody>
</table>
1. INTRODUCTION

1.5 ABOUT THE STATUS LED

LED Status Update:

<table>
<thead>
<tr>
<th>Color</th>
<th>Light display</th>
<th>Autoupdate Mode</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td>fast flashing</td>
<td>Update runs</td>
</tr>
<tr>
<td></td>
<td>shining</td>
<td>Update fails</td>
</tr>
<tr>
<td></td>
<td>shining</td>
<td>Update successful</td>
</tr>
</tbody>
</table>

Bedeutung LED Anzeigen

<table>
<thead>
<tr>
<th>Color</th>
<th>Light display</th>
<th>Meaning</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td>shining</td>
<td>only network connection available</td>
</tr>
<tr>
<td></td>
<td>fast flashing</td>
<td>no active connection</td>
</tr>
<tr>
<td></td>
<td>shining</td>
<td>no videosignal</td>
</tr>
<tr>
<td></td>
<td>shining</td>
<td>everything works</td>
</tr>
</tbody>
</table>

A detailed error description can be found in chapter First Aid

<table>
<thead>
<tr>
<th>Nr.</th>
<th>Name</th>
<th>Function</th>
</tr>
</thead>
<tbody>
<tr>
<td>10</td>
<td>DC</td>
<td>Connection for 12V/2A power supply 1</td>
</tr>
<tr>
<td>11</td>
<td>DC</td>
<td>Connection for 12V/2A power supply 2</td>
</tr>
<tr>
<td>12</td>
<td>Status LED</td>
<td>Status LED for network secondary</td>
</tr>
<tr>
<td>13</td>
<td>Status LED</td>
<td>Status LED for Network main</td>
</tr>
<tr>
<td>14</td>
<td>kvm-link</td>
<td>Connection for fiber cables main</td>
</tr>
<tr>
<td>15</td>
<td>kvm-link</td>
<td>Connection for fiber cables secondary</td>
</tr>
<tr>
<td>16</td>
<td>dp in</td>
<td>DisplayPort 1.2 Input from PC</td>
</tr>
<tr>
<td>17</td>
<td>USB 2.0</td>
<td>USB 2.0 to PC</td>
</tr>
<tr>
<td>18</td>
<td>Power/Status LED</td>
<td>Display of Extender Status</td>
</tr>
</tbody>
</table>
2. EXTENDER INSTALLATION

2.1 UNPACKING AND CHECKING THE CONTENT

Before using the product for the first time it should be checked for damage. In case of damage due to transport inform the carrier immediately. Before delivery the product is checked for its function and its operating safety.

Make sure that the packaging contains the following content:

1x media4Kconnect DP1.2 /local Extender CPU
1x media4Kconnect DP1.2 /remote Extender CON
2 x 12 VDC 2 A power supply
1 x DP - DP cable 1.8 m/5.9ft
1x USB A-B cable 1.8m/5.9ft
8 x mounting feets
KVM-link 2 x 10GSPF+ installed

The monitor or television in use has only one HDMI input, no DP.
With HDMI it is important to know that we need HDMI 2.0 for UHD @ 60Hz.

2.2 MOUNTING KIT

2.2.1 MOUNTING (OPTIONAL)

Rack Mounting Kit RMK-F
The rack mounting kit RMK-F is for assembling kvm-tec media4Kconnect extenders. It consists of 19" rack tray and an alu-faceplate.

2.3 INSTALLING THE EXTENDER

WARNING! Read and understand all safety information before installing the product.

The units can be set up to access point to point or over a Switching System with a host computer.
In the case of the latter, an additional 10 G Network Switch and a Windows PC or tablet with the Switching Manager must be installed with a Network Switch, each user can gain quick access to any of the required computers.
2. EXTENDER INSTALLATION

QUICK INSTALLATION
1. Connect the CON/Remote and the CPU/Local Unit with the supplied 12V 2A power supply.

2. Now connect the USB cable to a USB socket of your PC and connect the other end of the USB cable to the Local Unit. Connect the keyboard and mouse to the Remote Unit.

3. Connect the Local and the Remote Unit with a network fiber cable.

4. Connect the DP cable to the DP socket of the PC to the DP socket DP/in of the Local device and connect the screen on the remote side with the DP cable.

HAVE FUN - Your kvm-tec Extender is now in use for many years (MTBF approx. 10 years)!

Please note that the recommended length of the display port cable should be max 1.8m/5.9ft, otherwise an interference-free 4K transmission may not be guaranteed.

If you have a monitor that has an HDMI input, please use a video adapter with 60 Hz (at 30 Hz the screen will remain black.

Our recommendation: Please use OM3 cable to have enough bandwidth.

2.4 MEDIA4KCONNECT IN THE MATRIX VARIO SYSTEM

4K sources can be displayed simultaneously in 4K and with downscaling in Full HD on the remote unit. The output of the stream is done at 4K over 10G bandwidth. Two streams are transmitted simultaneously, so the 4K stream has 9 GBIT and the second stream in Full HD 1 Gbit.

The streams can be routed and shared independently and one source can be split to any number of screens. One user has full USB control (keyboard and mouse etc).
2. EXTENDER INSTALLATION

2.5 START UP

To start up the system:
1. Make sure that monitor and computer are switched on.
2. If you are using a Network Switch, connect the power cable to an earthed wall socket.
3. Connect both extender power cables (6 / 20) to an earthed wall socket. Switch on both units. Both extenders start an initialization process. The status LED blinks some seconds red and changes to green after a successful connection. The monitor will display your computer's desktop or any open applications.

2.6 REPLACING THE SFP MODULE

The Media4K is delivered with a multimode SFP + module.

To replace an SFP module with a different SFP+ module:
1. Remove the black dust protector from the SFP+ module.
2. Pull the metal latch of the SFP+ module forwards until it is at a right angle.
3. Replace the SFP+ module with the other module. Put the metal latch back in position. Only use SFP+ modules from kvm-tec, or recommended by kvm-tec.

2.7 REMOVING A FIBER CABLE

To remove a fiber cable:
• Press the latch down and slowly pull the cable out.
2. EXTENDER INSTALLATION

2.8 BEST PRACTICE FOR WINDOWS 10

Disable USB Energy Savings in Windows 10

- Go to Control Panel
- Open Power Options
- Select Preferred plans
- Uncheck "Allow the computer to turn off the display"
2. EXTENDER INSTALLATION

3. MAIN MENU & SETTINGS

3. USING ON SCREEN MENU

Use the monitor and keyboard to access the main menu.

Access to the main menu
1. Make sure that the extenders, monitors and computer are turned on
2. Press the Alt gr five times one after the other. The main menu and the overview of the submenus are displayed.
3. To access a submenu, press the corresponding key or navigate with the arrow keys up and down to the corresponding line and then press Enter key.

SCREEN „OSD menu“

In the main menu you can make the following settings by selecting the corresponding letters:

Press | System status | menu system status/ current status
-----|----------------|----------------------------------
S     | System status  | menu system status/ current status
F     | Features Menu  | activated features
L     | Switching List | Switching List
P     | Sharing List   | Sharing List
E     | Login          | Login
U     | Update         | update firmware
G     | Settings       | settings
3. MAIN MENU & SETTINGS

3.1. SYSTEM STATUS

By pressing the „S“ key or by selecting the arrow keys, you access the status menu, where you will find information about hardware and software versions, as well as the activated upgrades. The menu displays information about the connection, the resolution of the video channel and the USB status. The current Firmware version is displayed in the upper left corner. The link status indicates whether a connection is possible. Video and USB display data transfer status.

SCREEN „System Status“

3.2. FEATURES MENU

Pressing the „F“ key or selecting the arrow keys will take you to the features menu, where you can operate the activated features.

go to chapter 4 FEATURES

3.3 UPDATE MENU

Display of firmware version

By pressing the „U“ key or by selecting the arrow keys, you reach the update menu, in which the firmware of the Extender will be displayed and can be updated.

SCREEN „Update“
1. The current version of the firmware can be downloaded at http://www.kvm-tec.com/support. Each update file contains a detailed description of the update process. For further information please refer to the update chapter.

2. Connect the USB stick to the CON (REMOTE) unit (wait a few seconds until the USB stick is connected to the CON unit).

3. Open the update menu with the „U“ key.

4. Press „S“ to display this file.

5. The firmware is displayed with „Configuration found“.

6. Press „U“ to start the update on the Remote (CON) Unit.

The UPDATE process is now started and takes place in two steps:

1. Erasing flash: erases the memory
2. Updating: the new version is installed

SCREEN „Update“
3. MAIN MENU & SETTINGS

3.4 SETTINGS

By pressing the „G“ key or selecting the arrow keys you will have access to the Settings menu, where you can access all Extender settings.

SCREEN „Settings“

3. MAIN MENU & SETTINGS

3.4.1 DEFINING WHAT DDC DATA YOUR PC USES

Definition of the DDC information used in the PC:

Make sure that the main menu is open (5 x scroll)
1. Press the O to display the DDC-option menu
2. Press 1 to display the DDC information of the monitor connected to the remote (CON)
3. The Extender is connected. The DDC information is automatically saved
4. Press 2 for a fix resolution 1920 x 1080
5. Press 3 for a fix resolution 2560 x 1440
6. Press 4 for a fix resolution 3840 x 2160

Press ESC to return to the main menu

SCREEN „DDC/EDID Settings“
3.4.2 SELECT KEYBOARD LAYOUT

In the Keyboard Layout menu you can switch between the keyboard layouts with which you can navigate the on screen display menu (OSD).

Press ENTER for selecting DE, EN or FR keyboard

EN for selecting English (QWERTY).
DE for selecting German (QWERTZ).
FR for selecting French (AZERTY).

3.4.3 KEYBOARD SHORTCUTS

By pressing the „S“ key or by selecting the arrow keys you will access the Keyboard Shortcuts menu.

If you want to change one of the shortcuts, you have to press the letter specified for the shortcut.

Now you can press any key or key combination.
(Please note that only a key combination with the keys 1 or F1 is possible with point F.)

Use the arrow keys to determine the number of keystrokes required to trigger the shortcut.

Then confirm with Enter.

SCREEN „Keyboard shortcuts“
3.4.4 KEYBOARD FALBACK MODE

To use the OSD menu, the keyboard on the remote device must be identified.
For most keyboards, use the 0 setting.
When using USB, some mice act like a keyboard. In this case, select fallback mode 1 or 2.

3.4.5 MOUSE SETTINGS

By pressing the „M“ button or by selecting the arrow buttons, you enter the Mouse Settings menu.
With the M button you will open the Mouse Settings where you can adjust the speed of the mouse with the arrow keys.

SCREEN „Mouse Settings“

3.4.6 MANAGING LOCAL SETTINGS

By pressing the L key, or by selecting the arrow keys, you can access the Menu Local Settings.
Press the L key to open the Local Settings.
Here you will find the Remote Wakeup setting.

SCREEN „Local Settings“
3. MAIN MENU & SETTINGS

3.4.8 MONITOR POWER SAVE MODE

Power saving mode: The monitor turns off when no video signal is transmitted.

4. EXTENDER FEATURES

4. FEATURES

4.1 MENU FEATURES

Pressing the „F” key or selecting the arrow keys, you will access the FEATURES menu, where you can select all the functions and the features.

P - Point to point Mode (direct connection)
S - Matrix Switching Mode (only with switching manager)
E - USB Emulation Mode
U - USB save feature (mass storage usable)
V - Uncompressed mode
M - Unlock Features - redundant or uncompressed for Switching Systems

SCREEN Menu FEATURES

4.1.1 POINT TO POINT

Pressing „P” takes you to the point to point configuration. By default the Remote is directly connected to the Local.
4. EXTENDER FEATURES

4.1.2 MATRIX SWITCHING SYSTEM

Pressing „S“ takes you to the Matrix Switching System configuration. If this function is active, the Multiview Commander and Mouse Glide functions are controlled via the Switching Manager software (see Switching Manager manual). All functions of the switching system can be controlled via the Switching Manager software can be operated. With this link you can download the Switching Manager Software Manual.

download: www.kvm-tec.com/en/support/manuals

4.1.3 USB SAVE FEATURE

Press „U“ to go to the USB SAVE FEATURE configuration. With the activation, the intrusion of computer viruses can be prevented via USB-mass storage can be prevented. Data from a connected USB mass storage device cannot then be accessed.

4.1.4 MOUSE GLIDE & SWITCH

Multiple media4Kconnect extenders can be configured to automatically switch the USB operation of each computer and follow the mouse movement. Up to 8 monitors can be configured both vertically and horizontally. You can change the existing layout by pressing the T key and the F key can be used to search for extenders that are not displayed. Press the C key to reset all settings. Press the A key to apply all settings made.

4.1.5 USB EMULATION MODE

When this mode is set, the local extender emulates a keyboard and mouse that are always connected to the PC. The result is switching from one PC to another without any switching delay. Other PC without any switching delay. The emulation mode is limited only to mouse and keyboard only.

4.1.6 UNCOMPRESSED MODE

By pressing „V“ you can activate and deactivate the Uncompressed Mode. Once enabled, the KVM Extender transmits up to 4K resolution uncompressed and in 10bit color depth. Please note that for this mode you need two 10G fiber optic lines between the Remote and the Local Unit!

4.1.7 UNLOCK FEATURES REDUNDANT OR UNCOMPRESSED FOR SWITCHING SYSTEMS

In this menu you can also enable the „Uncompressed“ and „Redundancy“ feature after purchasing your 4k KVM Extender. Order the unlock code for the desired feature from your supplier by providing the device ID and serial number of the 4k KVM Extender. By entering the unlock code you unlock the desired feature. Activate the desired feature after unlocking in the Features menu.
5. MAINTANCE AND CARE

5.1 EXTENDER CARE

**Caution!** Do not use solvent-containing cleansers. Do not use wipes, alcohols (e.g. spiritus) or chemicals as these could damage the surface.

5.2. DISPOSAL

This symbol on the product, the accessories or packaging indicates that this product must not be treated as unsorted municipal waste, but must be collected separately! Dispose of the product via a collection point for the recycling of waste electrical and electronic equipment within the EU and in other European countries that operate separate collection systems for waste electrical and electronic equipment. By disposing of the product in the proper manner, you help to avoid possible hazards for the environment and public health that could otherwise be caused by improper treatment of waste equipment. The recycling of materials contributes to the conservation of natural resources. Therefore do not dispose of your old electrical and electronic equipment with the unsorted municipal waste.

The packaging is made of environmentally friendly materials, which may be disposed through your local recycling facilities. By disposing of the packaging and packaging waste in the proper manner, you help to avoid possible hazards for the environment and public health.

---

5. MAINTANCE & CARE

6. SUPPORT & FIRST AID
### Error Cause solution

<table>
<thead>
<tr>
<th>Error</th>
<th>Cause</th>
<th>solution</th>
</tr>
</thead>
<tbody>
<tr>
<td>LED is not lighting</td>
<td>The devices get no power</td>
<td>Is the power supply connected? Ne start device</td>
</tr>
<tr>
<td>LED is lighting in red</td>
<td>No connection between Loc and Rem</td>
<td>Check if the RJ45/network cable is connected well.</td>
</tr>
<tr>
<td></td>
<td>(Clicking noise when plugging in)</td>
<td>Control both, if it does not work please send an e-mail to</td>
</tr>
<tr>
<td></td>
<td></td>
<td><a href="mailto:support@kvm-tec.com">support@kvm-tec.com</a> or phone +42 2253 81912</td>
</tr>
<tr>
<td>LED is lighting in orange</td>
<td>No picture on the monitor</td>
<td>Check if the local (PC) cable is connected well.</td>
</tr>
<tr>
<td></td>
<td></td>
<td>Check if the remote (monitor) cable is connected well.</td>
</tr>
<tr>
<td></td>
<td></td>
<td>if everything is connected well but no function appears,</td>
</tr>
<tr>
<td></td>
<td></td>
<td>reconnect power supply again.</td>
</tr>
<tr>
<td></td>
<td></td>
<td>If the menu is visible, press the D key and choose the</td>
</tr>
<tr>
<td></td>
<td></td>
<td>resolution of the monitor.</td>
</tr>
<tr>
<td></td>
<td></td>
<td>Press the assigned number on your keyboard</td>
</tr>
<tr>
<td>LED is lighting in green</td>
<td>Screen occurs but the keyboard is</td>
<td>Plug out/in USB of keyboard and wait until driver is</td>
</tr>
<tr>
<td></td>
<td>not working</td>
<td>installed (after few seconds).</td>
</tr>
<tr>
<td></td>
<td></td>
<td>Check all USB connections on both sides (Local and Remote)</td>
</tr>
<tr>
<td></td>
<td></td>
<td>If it is still not working, plug out/in USB once more</td>
</tr>
<tr>
<td>LED is lighting in green</td>
<td>The screen flickers, has an incorrect</td>
<td>Install current firmware from our homepage  <a href="http://www.kvm-tec.com/support">http://www.kvm-tec.com/support</a></td>
</tr>
<tr>
<td></td>
<td>display</td>
<td></td>
</tr>
<tr>
<td>LED is lighting in green</td>
<td>Different firmware or USB is not</td>
<td>Please contact the kvm-tec support team via e-mail:</td>
</tr>
<tr>
<td></td>
<td>compatible</td>
<td><a href="mailto:support@kvm-tec.com">support@kvm-tec.com</a> or by phone: +43 2253 81912 30</td>
</tr>
<tr>
<td>LEDS different</td>
<td>different firmware</td>
<td>To enter on screen menu/check firmware version:</td>
</tr>
<tr>
<td></td>
<td></td>
<td>To enter the On screen menu, press the Scroll Lock key</td>
</tr>
<tr>
<td></td>
<td></td>
<td>five times in quick succession. The currently installed</td>
</tr>
<tr>
<td></td>
<td></td>
<td>firmware version is displayed below the menu</td>
</tr>
<tr>
<td></td>
<td></td>
<td>If firmware update does not work, please send an e-mail to</td>
</tr>
<tr>
<td></td>
<td></td>
<td><a href="mailto:support@kvm-tec.com">support@kvm-tec.com</a></td>
</tr>
</tbody>
</table>

### 7. Cable Requirements

#### 7.1 REQUIREMENTS FIBER CABLE

**7.1.MULTI-MODE (STANDARD)**

A multi-mode fiber cable should meet the following requirements:

- The maximum length should be 300 m (984ft). The media4Kconnect is equipped with a multimode - SFP+ module, which allows a transmission distance of up to 300 m /984ft

- Dedicated fiber optic connection cable type OM4 Duplex Multimode with LC plug
8. REQUIREMENTS NETWORK SWITCH

The entire switching network system requires its own separate network. For security reasons, it cannot be integrated into an existing corporate network.

The network switch must meet the following specifications:
- **Full HD:** 1Gigabit Switch
- **4K:** 10Gigabit Switch

**Network requirements Matrix System UDP Version**

The KVM-TEC Matrix Switching System communicates via IP between the individual endpoints (local/CPU or remote/CON), as well as with the KVM-TEC Switching Manager, Gateway2Go and API. Sharing of videos is realized via the IGMP function of the switch via multicast.

Each endpoint joins a multicast group, even if only one connection is established. This process is repeated cyclically so that the switch keeps the multicast group active.

One exception is the Gateway2Go, which uses unicast and communicates via UDP just like the other devices.

The following UDP ports are required for the transmission:
- Port Number 53248 (0xD000) to 53260 (0xD00C)
- Port Number 50000 (0xC350)

These ports must be taken into account when configuring the firewall. For the connection via WAN a secured VPN connection is necessary.

The KVM-TEC Matrix system supports DHCP management of IP addresses, static IP addresses are possible, internal default address range and assignment of IP addresses via a DHCP server. To meet all these requirements, the use of Layer 3 switches is recommended.

8.1 SWITCHES

For information on switches, please contact our sales team at sales@kvm-tec.com or our support at support@kvm-tec.com

9. WARRANTY

The warranty period is 24 months from the date of purchase. The warranty expires in case of:
- External effort
- Improper maintenance
- Violation of the operating instructions
- Lightning damage

Please, contact us first before returning the product.

9.1 EXTENDED WARRANTY

<table>
<thead>
<tr>
<th>Art Nr</th>
<th>Warranty Extension</th>
<th>Per Unit</th>
</tr>
</thead>
<tbody>
<tr>
<td>KT-9003</td>
<td>5 years</td>
<td>per Set</td>
</tr>
<tr>
<td>KT-9002</td>
<td>5 years</td>
<td>per Unit</td>
</tr>
</tbody>
</table>
10. ADDRESS & PHONE / EMAIL

If you have any questions about our products, please contact kvm-tec or your dealer.

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Find our newest updates and FAQs on our homepage: