Switching Manager
Software & Switchen im OSD Menü
for
Matrixline 2000
4K Ultraline DP1.2
media4Kconnect
Flexline
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The KVM – SWITCHING MANAGER is a Software that helps to manage a KVM-Network. It provides a wide variety of functions that help to maintain the Network. This manual demonstrates the administration of the KVM – SWITCHING MANAGER as well as some concrete examples of controlling the KVM-Network for Matrix Switching Systems up to 2000 endpoints for products MX2000 and UVX Extender. Information about compatible Hardware (Switches, Ethernet cables) and a setup guide is provided in the manual of the used kvm-tec KVM-Extender.

If there are any questions or issues linked to the KVM – SWITCHING MANAGER or another kvm-tec product, please get in touch with the kvm-tec support Team:

E-Mail: support@kvm-tec.com
Phone: +43 2253 81912-30
1.1 SYSTEM REQUIREMENTS

- Windows 7 (32bit/64bit) or higher
- 1 GB RAM
- 50 MB free storage
- 1 Gbit dedicated network interface

2. INSTALLATION

2.1 INSTALLATION LICENSE AGREEMENT

The current version of the KVM – SWITCHING MANAGER can be acquired from your licensed kvm-tec sales partner or from kvm-tec.

SELECTING THE LANGUAGE

SCREEN: Selecting the language

Select your language and click „OK“. 
2. INSTALLATION

ACCEPTING THE LICENSE AGREEMENT

Confirm the license agreement and press “next”.

SELECT FILE LOCATION

Select the appropriate file location and press „next“.

SELECT SHORTCUT

In this menu you can change the name of the folder from the start menu.

In this menu you can set a desktop shortcut.
2. INSTALLATION

INSTALLATION DISPLAY

All installations are displayed in this window.

The following section of the installation runs automatically.
In the first step of the installation process, the required software packages "net 35" and installed the "Microsoft Visual C++ Redistributable"

WINPCAP-INSTALLATION

To start the WinPcap installation, select "Next".

Accept the license agreement by pressing "I Agree".

The driver "WinPcap" is installed on the PC. If the driver is already installed, the installation program asks whether the installation should be forced. This is only necessary if the versions are different.
2. INSTALLATION

Activate „Start WinPcap driver automatically on boot“ and press „Install“.

SCREEN: WinPcap Installation Option

Now the automatic installation of the Switching Manager will start on your PC.

SCREEN: automatic installation Switching Manager

After successful installation press „Finish“ and the Switching Manager is starting.

SCREEN: Completing Setup Wizard

Press the „Finish“ button to exit the Setup Wizard.
2. INSTALLATION

2.2 CONNECTING THE PC TO THE KVM-EXTENDER NETWORK

Connect a free 1Gbit network interface of the PC with a network switch inside the Extender-Network. It is not required to configure the network interface inside of Windows.

To ensure a good connection, Cat5 or better Ethernet cable is recommended for connecting the PC to the switch.

3. LOG IN & GENERAL SETTINGS

3.1 LOG IN AS AN ADMINISTRATOR

Open the Switching Manager Software as soon as all devices are connected.

Your Computer with the Manager Software installed – 1G (Copper or Fiber)
MX – 1G (Copper or Fiber)
UVX – 10G (Copper or Fiber)

When you first log in, Switching Manager opens, showing the General Settings window.

Default log in
When you first log in, use the default username and password.
USER: admin
PASSWORD: admin
Go to System > General Settings (The List view is the standard view when you start the Manager Software)

Now Select your network card which is connected to the KVM network

On the next step there are two options you can choose from:

1) Manually Add Extenders
2) Automatically Add Extenders (Most used/recommended option)

1) If it's necessary to manually add extenders because not every device is used at the moment or because of other reasons select Manual Add Extenders

Select Extender to Manager Binding

Doubleclick the extenders you need
3. LOG IN & GENERAL SETTINGS

### 3.2 GENERAL SETTINGS

After the successful installation you will be automatically redirected to the System General settings button to make the first general settings.

First step - Selecting the network (corresponds to network card)

2) If you like to add all devices connected to a switch and let the Switching Manager do the work choose “Enable Extender Automatic Add” which is the most used option.

Click on Enable Extender Automatic Add

Make sure that you “Search for MX 3.x-4.x/UVX and click “Search for new Extenders”

Now please click the “Save” button.

You may now be asked to restart the Manager Software, accept and restart the Manager Software. You’re ready!

---

**Optional Settings**

**Enable extender automatic add:** To automatically add new devices to your network, select Enable extender automatic add. If you change this setting, restart Switching Manager Software

**Extender to manager binding:** Only displayed if „Enable extender automatic add“ is not selected. A window for assigning extenders opens. (chapter 9.1.1)

**Enable Extender User System:** Shows wether a user system is used or not. If this function is activated, users must log in to the Extender before they can access the switching network.

**ATTENTION:** The session protocol is only possible if you activate this function!
Time until Log Out: The log out time is set in minutes. With „0“ you can log in at any time.

Enable legacy Update System
Update system for older Extender firmware

Extender Time to live: The software queries all extenders in the system to see if they are still active. The duration of the query can be set variably. If an extender is not active within the defined time period, it is logged off from the system.

TTI timer Intervall: The query intervall can also be defined variably. For example, if the time is set to 30, the extender is asked every 30 seconds whether it is still active.

Hid inactive Extender: This function only displays the active Extenders and hides the displays of the inactive ones.

Restore last connection: restore the last commando

Default Extenders Layout: Select the layout when logging in.

Default language: Select language

Theme: you can choose our kvm-tec colours orange or blue

With the button „Search for MX Extenders“ you can search for MX 1.x in the network.

With the button MX3.x - 4.x Extender/ UVX Extender you can search the network for extenders.

With Import/Export General Settings the General Settings can be imported or exported (e.g. for back up)

With Import Export Extender Settings the Extender Settings can be imported or exported (e.g. forBack up)

Version by clicking 6x fast the complete firmware version number is displayed. For a support case this is a helpful tool.

3.2.1 WINDOW-CLOSING APPLICATION

CLOSING THE APPLICATION! 

Do you want to Close this Application?

Yes
No

If you close the switching manger and additional window is opening where you can confirm that you want to close the application.

3.3 IP MANAGEMENT

The KVM extenders from kvm-tec support three different addressing methods. The IP Management menu is only accessible in the active “Matrix Switching Mode” under Features.

Default

In default mode, each Extender generates an IP address using the ID number to avoid number collisions in the network.

DHCP

The KVM extenders from kvm-tec support the DHCP protocol (Dynamic Host Configuration Protocol). This allows the assignment of network addresses by a DHCP server.
4. BASIC COMMANDS

The three basic commands in the Switching Manager are connect, disconnect and sharing.

4.1 CONNECT

To connect two extenders together, select an extender by clicking on it. A selected extender changes its color to green and the menu buttons are displayed.

SCREEN: Selected Extender with menu buttons

After you have selected the first connection partner, click on the second one. Immediately after selecting the second partner, the two extenders will be connected.

Static IP

In Static-IP mode the IP addresses can be assigned via the OSD. It is necessary to be connected to a local partner to be able to transmit IP addresses. The blue values show the currently assigned IP addresses. With the arrow keys up / down you can overwrite the respective IP address. The addresses can be overwritten by entering a valid 12-digit number. E.g.: for the IP address 10.0.0.1 the 12-digit number 010.000.000.001 must be entered in the OSD. The separator points are added automatically.

If all four IP addresses are overwritten, “Save/send settings” must be used to transmit the new values to the extenders.

Static IP addresses can only be overwritten in Static IP mode.
4. BASIC COMMANDS

4.2 DISCONNECT

To terminate a connection between two extenders, select the extender to be disconnected.

Connected extenders are colored blue and have their partner's name displayed under their own name. The link is represented by the chain symbol on the left.

To disconnect the extenders, press the menu button with the „X“ symbol on one of the extenders. After a successful disconnection, the extenders will change their color to yellow and display „<not connected>“ instead of their partner's name.
4.3 SHARING

The video signal from one source can be shared with multiple monitors. This connection then transmits all information, while a shared connection only transmits the video signal. To share the video of an ongoing connection, select one of the participating extenders.

Then click the remote extender you want to share the video with. The extender will turn blue and the „Eye” icon will appear on the left. The Local Extender icon will also change to the „share” icon.

5. THE FUNCTIONS OF SWITCHING MANAGER

The following chapters describe the selection options and Functions of the Switching Manager Software.

These are displayed on the screen from top to bottom and are described in this order and can be used with the two button in the lower left corner of the screen with „Expand all” expanded and closed with „Collapse All”.

With the button „Save” the settings can be saved. With the button „Cancel” the settings can be discarded.

ENDPOINTS
- Extender Settings
- Extender Groups

USERS
- User Setting
- User Group
- User Roles
- User Extender Binding

FEATURES
- Mouse glide & switch
- 4K Multiview Commander
- Multihead Groups
5. FUNCTIONS

6. ENDPOINTS

LAYOUT
List
Grid
Treeview

SYSTEM
General Settings
(look chapter Log In 3.1 und 3.2)
Update Management
Scenarios
Session Protocol

The menu bar at the top (right) displays the following Symbols displayed
username
logout
Minimize, reduce and close

6 ENDPOINTS

In this menu you can open an additional menu by clicking on the arrow symbol and select and edit „Extender Settings“ or „Extender Groups“.

The menu item Extender Settings lists all information about the Extender.

6.1 EXTENDER SETTINGS

SCREEN  Endpoints  - Extender Settings

In the main menu - „Endpoints“ the menu item Extender Settings is shown.

The menu item Extender Settings lists all information about the Extender.

Local/CPU and Remote /CON. Status, Name, FW Version, Product, Device, Static Partner, Type, ID, DDC and Address are displayed
6. ENDPOINTS

6.1.2 PREVIEW IN SWITCHING MANAGER

FUNCTION
The Extender can additionally display a preview of the image content from the source. The preview will be updated 10x/sec.

ACTION
SELECTION OF THE LOCAL EXTENDERS (SOURCE) FOR PREVIEW
Switch to „Extender Settings“ on the left side of the menu.
1. select Local Extender for Preview in the list
2. press „Information of Extender“
3. configure and request a preview:
   The default resolution of previews is 480x270 pixels.

By clicking a window is opened which shows all Extender settings.

SCREEN - Preview
6. ENDPOINTS

6.1.3 CAPTURING FOR UVX

**FUNCTION**
A single image from the screen can be captured as an image up to a 4K release. (even with moving pictures, a picture is guaranteed to be saved)

The image can be saved as an uncompressed bitmap.

**ACTION**
By pressing „Save Bitmap”, the current preview image can be saved as a bitmap.

6.2 EXTERNDER GROUPS

**FUNCTION**
To make the management more transparent, extenders can be combined into groups

**ACTION**
All extender groups are listed in the menu item Extender groups.

With the button

- **Create New Extender Group** - you can create a new group and add it
- **Edit Extender Group** - an existing group can be opened and edited
- **Delete Extender Group** - deletes an existing and selected group
6. ENDPOINTS

6.2.1 CREATE EXTENDER GROUP

FUNCTION
Create an Extender a group to manage the Extender more easily in the system.

ACTION
To create a group, enter a name in the upper left field. Optionally, a parent group can also be selected.

The left column shows all available extenders and the right column shows all extenders of this group. By selecting a single extender or several extenders, these can be added to or removed from the group by pressing the arrows.

This menu displays the name/number of members and optionally the parent group. A click on „Edit Extender Group“ or a double click opens the window for editing the Extender Group.

With the button „Save Extender Group“ the settings can be saved. With the button „Cancel“ the changes are discarded.

SCREEN create extender group

7. USER

7. User

FUNCTION
Different levels can be defined for the user to increase the security in the system.

ACTION
The User Settings, User Groups, User Roles and User Extender Binding are defined in the USE menu item

With the Buttons Edit User, Remove User and Favourite Extender Manager the Extender can be added, removed or edited

7.1 USER SETTING

After an Extender has been selected, an existing user can be edited with the „Add user“ button. „Edit user“ here a selected user can be edited.
„Remove User“ a selected user can be deleted.

„Favourite Extender Manager“ - Configuration for Favourite-Extender (up to 8). By pressing F1-F8 or 1-8 on the keyboard the remote units can be switched.

SCREEN: User Settings
7.1.2 ADD USER

To create a new user, a password must be selected and confirmed in the window and the user role must be selected.

With „Save“ you can save the changes and with „Cancel“ you can discard the changes or create a new one.

SCREEN: add user

7.2 USER GROUPS

FUNCTION

For users who are grouped together, different levels can be defined to increase security in the system.

ACTION

In this menu you can create and display user groups. All user groups are listed under User Groups.

With the button:

„create new user group“ you can add a new user group
with „Edit new user Group“ you open an already selected group for editing and with „Delete user group“ you can delete a selected group.

SCREEN: User groups
7.2.1 CREATE USER GROUPS

In the left column the available users are shown and in the right column the selected members of group.

By pressing the **arrow right / left** the single users can be added.

With „Save User Group“ the changes can be saved.
With „Cancel“ the changes are discarded.
With „Delete“ deletes everything.

7.3 USER ROLE

**FUNCTION**
The rights of the user - security level can be defined.

**ACTION**
In this menu item you can define the User Role - the security level.

With the button:
- „Create new user role“ you can add a new user role.
- „Edit user role“ opens an already selected user role for editing.
- „Delete user role“ deletes a selected already existing user role.
7.3.1 CREATE USER ROLE

You can create new roles for existing users, and give users a security level. The lower the number, the higher the security level. A user with a higher security level can overwrite the connections of a user with a lower security level.

To add a role for a user, select the user from the list, and then select Create new role.

7.4 USER EXTENDER BINDING

FUNCTION

Certain bindings for users or user groups can be defined.

ACTION

You can find a list of all users under User Extender Binding. With the buttons "Bind Extender groups" users can be bindied to a Extender group. "Bind Extender" all available extenders can be assigned to the selected user.
### 7.4.1. EXTENDER FOR MANAGER BINDING

![SCREEN Extender for Manager Binding]

Editing Extender Switching Manager Assignments

On the left side are all free extenders.

On the right-hand side are all those that have been assigned to this Switching Manager.

By selecting one or more extenders they can be assigned or from the Switching Manager by pressing the arrows.

Click “Save Extender Binding” to save all extenders, click “Cancel” to discard all changes.

### 7.4.2 BINDING EXTENDER GROUP

In the left column all available Extender groups are displayed and in the right column all Extender groups assigned to the user are displayed.

By selecting one or more extender groups, these groups can be be assigned or removed from the user by pressing the arrows left/right

With the button “Save Extender Binding” you save the settings. With the button “Cancel” you can reject the changes.
7.4.3 BINDING EXTENDER

In the left column all available Extenders are displayed and in the right column all Extenders which are assigned to the user are displayed.

By selecting one or more extenders these Extenders can be be assigned or removed from the user by pressing the arrows.

8. FEATURES

8. Features

Under this menu item the features can be created, displayed, changed or deleted.

8.1 Mouse Glide & Switch

With this software feature several monitors can be operated with one mouse and one keyboard. The arrangement of the monitors can be horizontal or vertical.

Mouse glide & switch Sharing

8.2 4K Multiview Commander

This feature enables the operation of contents of different PCs (up to 4) on a 4K monitor and is an additional feature of the UVX Extender.

8.3 Multihead Groups & Static Partner

With this feature a multihead group can be created by selecting the remote/CON units and switching 2 monitors simultaneously. A static partner can also be created in this menu.
8.1 MOUSE GLIDE & SWITCH

**FUNCTION**

With this software feature several monitors can be operated with one mouse and one keyboard. The arrangement of the monitors can be horizontal or vertical.

![Diagram of MOUSE GLIDE & SWITCH](image)

**ACTION**

Control multiple local PCs with a single mouse and keyboard with mouse glide and switch. Each PC appears on a separate remote monitor. You can arrange your remote monitors horizontally and vertically. Set up your remote monitor layout on the mouse glide and switch window.

To create a new layout, select Mouse glide and switch configuration.
To edit an existing layout, select Edit mouse glide and switch.
To delete a layout, select Delete mouse glide and switch.

![SCREEN: Create Mouse glide & switch configuration](image)

---

8.1.1 CREATE MOUSE GLIDE & SWITCH

With „Create Mouse glide & switch“ you can select the configuration of the Extender for Mouse Glide & switch and assign a name for this configuration.
You can arrange the monitors on the screen by drag & drop.
The monitors must already have been added to the configuration. („Select Extender“)
Newly added monitors are saved in the upper left corner.

![SCREEN: Create Mouse glide & switch configuration](image)
8. FEATURES

8.1.2 SELECT EXTENDER FOR MOUSE GLIDE & SWITCH

The left column shows all available extenders and the right column shows all extenders assigned to this mouse glide & switch configuration.

The button „Select Extenders“ opens another window. By clicking the arrows on the mouse, single extenders or multiple extenders can be added or removed from the Mouse Glide & Switch configuration.

With the button „Save Configuration“ you can save the changes, with „Cancel“ the changes can be discarded.

SCREEN Select Extender for Mouse glide & switch

8.1.3 SELECT MONITORS FOR CREATING MOUSE GLIDE & SWITCH

Monitors can be arranged free by dragging with the mouse. When a monitor is moved, it is „attracted“ by the edges of a nearby monitor. (If the Left Shift key is pressed, this behavior is disabled.)

Monitors can be enlarged or reduced by dragging at the corners. Double-clicking on a monitor opens a window to manually adjust size and to activate USB in this configuration.

SCREEN Select Monitors for Mouse glide & switch
8.1.4. SET USB MASTER

With the Mouse glide & switch configuration you only need one mouse and one keyboard for all PCs. The Extender, to which the mouse and the keyboard are connected, must be defined as USB Master.

Here you select the Remote Extender to which the mouse and keyboard will be connected. „ok“ saves these changes and „Cancel“ discards the changes.

SCREEN Set USB Master

8.1.5. MOUSE GLIDE & SWITCH SHARING

Users can share the screen contents of mouse glide & switch on a video wall as they wish.

For more information about the kvm-tec functionality have a look at our website:
8.2 4K MULTIVIEW COMMANDER

FUNCTION
The 4K Multiview Commander is an additional feature of the 4K Ultraline Extender. By activating this function, the video signals of the 4K Ultraline and MAXflex can be displayed from 4 different PCs and operated on a 4K screen. You can view and control up to four monitors. This means you can control up to 16 PCs with a single mouse and keyboard.

For the configuration of this feature you need 4 x MX Local Extender and 1 x UVX Remote Extender to which a 4K monitor is connected.

8.2.1 CREATE 4K MULTIVIEW COMMANDER

SCREEN Create 4K Multiview Commander

By selecting the 4K Multiview Commander, all Remote UVX Extender are listed and can be activated.

RED FRAME
For a better orientation on the screen a red frame can be displayed and the settings can be changed.

1) Highlight enabled
A red frame is displayed in the window in which the mouse is located.

2) Highlight transparent - the frame is displayed red transparent

3) Highlight on View change - the red frame will be changed when the mouse is moved from one quadrant to the other

4) Highlight on mouse move - the red frame is displayed when the mouse is moved
8.4 MULTIHEAD GROUP

**FUNCTION**

With this feature a multihead group can be created by selecting the remote/CON units and switching 2 monitors at the same time. A static partner can also be created in this menu.

**ACTION**

With the buttons you can select
- „Create Multihead group“ adds a new group to the list.
- „Edit Multihead Group“ opens an existing group for editing (this group must be selected)
- „Delete Multihead Group“ deletes an existing group (this group must be selected)

8.4.1 CREATE MULTIHEAD GROUP REMOTE UNITS

With the button „Create Multihead Group“ a multihead group can be created by selecting Remote/CON Extenders and assign a name.

Setting for Remote/CON Groups:
The left column shows all available extenders, the right column all members of this multihead group. By selecting a single extender or multiple extenders, these can be added to or removed from the group by pressing the arrows.
- „Save Multihead group“ saves the selection.
- „Cancel“ discards the changes.

SCREEN Create Multihead group remote/CON units
8.4.2 CREATE MULTIHEAD GROUP LOCAL UNITS

A multihead group can be created by selecting the Local /CPU units.

The left column contains all available extenders, the right column all members of this multihead group.

By selecting a single Extender or multiple Extenders, these can be added to or removed from the group by pressing the arrows.

With „Save Multihead Group“ the selection is saved, with „Cancel“ the changes or the creation are discarded.

8.4.3 SELECT STATIC PARTNER

FUNCTION
permanent connection can be defined between endpoints

ACTION
In the Multihead Groups menu item, static partners can be defined as permanent connections.

SCREEN Set Static Partner.
8.5 USB SHARING

FUNCTION
It is possible to take over USB Control while in Sharing Mode. To use this Feature, you need firmware from MX 3.15 and a Switching Manager 1.1.5.

Two different approaches are given:
- HID Mode
- High Speed Mode

HID Mode
To allow HID Mode USB Sharing you must activate the corresponding feature in the Switching Manager Software. After activation, all shared remote units have access to the USB control in the HID mode of the shared computer. Keyboards and mice can be shared in HID mode.

ACTION
USB HIGH SPEED MODUS
To allow USB 2.0 sharing it must be activated in the Switching Manager in the General Settings. When activated USB control can be transferred to any Console by pressing a shortcut on the attached Keyboard.
To change the shortcut for USB 2.0 USB Sharing you must look at the Extenders Shortcut Menu. There you can set your personal shortcut for overtaking the USB control. Per default it is L-Ctrl.

While in Sharing Mode you can now press the specified hotkey to take over USB control. As a result, the menu will pop up until USB has been initialized.

There is also a possibility to use the feature by pressing any key. You can activate this in the Remote Settings with „U“. After it has been enabled every pressed key will take over USB control, except if you are navigating in the menu at this time.
9. LAYOUT

9.1 LAYOUT VIEWS

In the Switching Manager, 3 different layouts of the extenders are possible

LIST VIEW
The extenders are displayed in a List

GRID
The extenders are displayed in a tile form.

TREEVIEW
The extenders are sorted hierarchically and displayed vertically.

The default setting is LIST -VIEW. The layout can be changed under the menu item „SYSTEM - General Settings“ (Chapter 3.2) under Default Extenders Layout.

9.2 LIST VIEW

FUNCTION
The Extender are displayed in a list

ACTION
The List View displays all local/CPUs in the left column and all remote/CON extenders in the right column.
By clicking on the extenders, a Local/CPU and a Remote/CON Extender can be connected.

The input field at the top of the list can be used to filter the extenders by name.
The Extender Name, Connection, ID, Product, Group is displayed in the list.

To display an extender in the GRID view, simply activate the checkbox „Gridview“.

SCREEN List View
9.3 GRID VIEW

FUNCTION
The extenders are displayed in a tile form.

ACTION
The grid view displays all local/CPU and remote/CON devices in the switching system. In the upper column the Remote/CON units are displayed and in the lower column all Local/ CPU units are displayed.
By clicking a Local/CPU and a Remote/CON Extender can be connected.
Connected extenders are displayed in green.

9.3.1. NAMING AN EXTENDER IN GRID-VIEW

Clicking on the info symbol - "i" opens an additional window. Extender information (ID, firmware, status, partner) is displayed here.

A name for the Extender can also be entered in this window.

For 4K Ultraline Extender (UVX) additional information is available for the following features:
Mouse glide & switch and 4K Multiview Commander.
9.4 TREEVIEW

**FUNCTION**
In the treeview, the extender groups are displayed hierarchically sorted in a vertical view.

**ACTION**
In the treeview, the extender groups are displayed hierarchically sorted in a vertical view.

Open context menu:
Right-click an extender to open the context menu.

---

9.4.1 CONTEXT MENU

**FUNCTION**
Extenders can be added to or deleted from a group, and Extender groups can be removed from an Extender group.

**ACTION**
In this window the following functions can be selected:

- **ADD EXTENDER GROUP**
- **ADD EXTENDER**
- **REMOVE EXTENDER GROUP**
- **CREATE NEW EXTENDER GROUP**
- **DELETE EXTENDER GROUP**
9. LAYOUT

9.4.2 ADD EXTENDER GROUP

In this context menu you can select groups to be added to this group.

Enter the name of the Extender group and confirm with „Add selected Extender Groups“.

SCREEN Selected Extender Groups to add

9.4.3 CHILD GROUP

In this view the treeview with child groups is displayed

SCREEN Child group
9.4.4 ADD EXTENDER

Click this button to select Extenders to add to this group. In an additional window, you can select the Extender to add to this group.

SCREEN Selected Extenders to add

9.4.5 EXTENDER CONTEXT MENU

In the context menu, you have the following options by selecting the icons in the window:

Connect to
Share with
Disconnect
Remove Extender from group

an Extender can be connected
an Extender can be shared
an Extender can be removed
an Extender can be removed from the Extender Group

SCREEN Extender context menu
9.4.6 CONNECTING AN EXTENDER

with „Select an Extender to Connect to” an extender can be selected for connecting. The text field can be used to filter the Extender list.

10. SYSTEM

In the menu item SYSTEM the following functions can be selected

GENERAL SETTINGS
The general settings can be made in this menu item.

UPDATE MANAGEMENT
All extenders in the switching system can be updated

SCENARIOS
combinations that are freely selectable can be created and loaded with a button

SESSION PROTOCOL
This function can be used to document user behavior.
10.1 GENERAL SETTINGS

Extender Settings - General Settings chapter 3.1

After a successful LOG IN, you are automatically forwarded to this menu item to make the General settings.

10.2 UPDATE MANAGEMENT

FUNCTION
This view displays all extenders for which a firmware update is to be performed. This function displays a list of the extenders assigned to the Switching Manager.

ACTION
This view displays all extenders for which a firmware update is to be performed. This function displays a list of the extenders assigned to the Switching Manager.

With this button the following steps can be selected for the update

(Un)Mark All the extenders are marked for the update
Send firmware to marked Extender the firmware is loaded to the Extender
This takes about 2 minutes.
UPDATE Marked modules now the firmware is updated

Attention “Finish” indicates that the update is ready.
“Error” there is an error during the update
10. SYSTEM

10.3 SCENARIOS

FUNCTION
A scenario can be created for user-defined combinations, which can be loaded by clicking on the button. The scenario can be changed or deleted. A scenario can be created for user-defined combinations, which can be loaded by clicking on the button. The scenario can be changed or deleted.

ACTION
By clicking the buttons
Rename a new scenario can be created or renamed.
Load a new scenario can be loaded
Save a scenario can be saved
Delete a scenario can be deleted
10. SYSTEM

10.3.1 CREATE A SCENARIO

Use this window to create or rename a new scenario.

With „Save“ the settings are saved, with „Cancel“ the creation or change is discarded. A name can be entered for each scenario.

SCREEN create scenarios

The Session Protocol in the menu item „System“ is suitable for the documentation of the user behaviour.

This function is only possible if the Extender User System is activated in „General Settings - enable Extender User System“.

10.4 SESSION PROTOCOL

FUNCTION

The Session Protocol in the menu item „System“ is suitable for the documentation of the user behaviour.

ACTION

The Session Protocol in the menu item „System“ is suitable for the documentation of the user behaviour.

This function is only possible if the Extender User System is activated in „General Settings - enable Extender User System“. 

SCREEN Session protocol
11. USER VIEW

Using Switching Manager as a user:

The Layout category is available from the menu on the left.

SCREEN User view

12. SWITCHING WITH OSD MENU

In this chapter Switching functions in the OSD menu are described.

SWITCHING BETWEEN DIFFERENT COMPUTER
Switching between different computers via a connected USB keyboard

SHARING IN OSD MENÜ
Display one source on different monitors

CONNECT, DISCONNECT OR EDIT A CONSOLE OF CURRENTLY CONNECTED DEVICES
The screen Overview provides an overview of the currently connected PCs, as well as the free PCs and consoles on the network.

SEARCHBOX FUNCTION
All available Extender are displayed in the OSD list View
12. SWITCHING WITH OSD MENU

12.1 SWITCHING BETWEEN DIFFERENT COMPUTERS

The menu for switching between different computers is possible via a connected USB keyboard which is connected to the remote/CON unit. This function is only possible in combination with a network switch and the supplied Switching Manager software.

1. Press Ctrl+Alt+F12 (this is the default key combination, but it will not be used). can be changed. See chapter „Changing key combinations“.
   This opens the switching menu. The switching menu lists all local/CPU units that are connected to the switching network.
2. To select a local extender press arrow up and down, or PG/UP and PGD/OWN keys
   Press Enter. The system switches to the selected Computer.
3. with F1 - F8 favorites can be created and selected.

12.2. SHARING WITH OSD MENU

To display the same source on multiple monitors, you can use video sharing

The PUSH command sends the current console image to another monitor.
GET displays the current image of another console on your monitor.

<table>
<thead>
<tr>
<th>Switching List</th>
<th>Currently not logged in</th>
</tr>
</thead>
<tbody>
<tr>
<td>Nr.</td>
<td>Device</td>
</tr>
<tr>
<td>----</td>
<td>------</td>
</tr>
<tr>
<td></td>
<td>FlexLine</td>
</tr>
<tr>
<td></td>
<td>FlexLine</td>
</tr>
</tbody>
</table>

G Get-List | D Disconnect 1/1

<table>
<thead>
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<tr>
<td></td>
<td>FlexLine</td>
</tr>
</tbody>
</table>

G Get-List | D Disconnect 1/1
12. SWITCHING WITH OSD MENU

12.3 CONNECT, DISCONNECT OR EDIT A CONSOLE CURRENTLY CONNECTED DEVICES

The Overview screen provides an overview of the currently connected PCs, as well as the free PCs and consoles on the network. You can remotely cancel a connection, assign a new console to a PC, or vice versa.

Press D to disconnect the devices.
By pressing P a point-to-point connection can be activated.
Press A Log In Form. By entering your username and password, you can log in directly to a remote workstation.

The general user administration is done in the Switching Manager software. After logging in, the user receives his personalized lists (Devices, Favorites List).

12.4 SEARCHBOX-FUNCTION

In the OSD list view you can search for the different extenders

<table>
<thead>
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</tr>
</thead>
<tbody>
<tr>
<td>Nr.</td>
<td>Device</td>
</tr>
<tr>
<td>FlexLine</td>
<td>ready</td>
</tr>
<tr>
<td>FlexLine</td>
<td>free</td>
</tr>
</tbody>
</table>

Press P Push-List | D Disconnect

In the OSD list view, you see all available extenders. To search for specific extenders, press the „TAB“ key. Now you can enter a string to search for the extender you want to see. If you press the Return key, a reduced list of extenders is displayed.
If you have any questions about kvm-tec products, please contact us.

kvm-tec electronic gmbh
Gewerbepark Mitterfeld 1A
Tattendorf
Austria
phone: 0043 (0) 2253 81 912

Support - Team
phone: 0043 (0) 2253 81 912

www.kvm-tec.com
email: support@kvm-tec.com

**kvm-tec Inc. USA Sales**  p+1 213 631 3663  &  +43 225381912-22
email: officeusa@kvm-tec.com

**kvm-tec ASIA-PACIFIC Sales** p +9173573 20204
email: sales.apac@kvm-tec.com

**kvm-tec China Sales** - P + 86 1360 122 8145
email: chinasales@kvm-tec.com

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