

INSTRUCTION MANUAL

KVM-TEC KVM – SWITCHING MANAGER

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1. INTRODUCTION

The KVM – SWITCHING MANAGER is a Software that helps managing a KVM-Network. It provides a wide variety of functions that help maintaining the Network.

This manual demonstrates the administration of the KVM – SWITCHING MANAGER as well as some concrete examples of controlling the KVM-Network.

A detailed guide on setting up and maintaining a KVM-Network can be found in the Switching Option Manual. 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:

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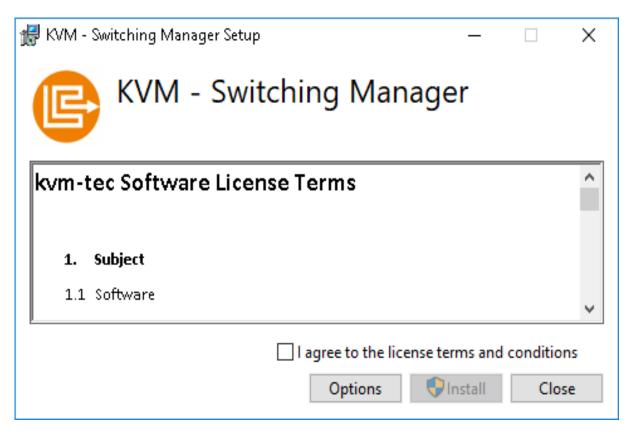
1.1 SYSTEM REQUIREMENTS

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

2. INSTALLATION

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

Depending on your hardware platform run the either the KVMSwitchingManagerSetup_x86_xxxx.exe or KVMSwitchingManagerSetup_x64_xxxx.exe.



Picture 1: Installation license agreement

Read and agree to the license of terms and press "Install". In order to run the installation, administrator rights are required (see picture 1).

2. INSTALLATION

During the first instance of the setup process the required software packages ".net 35" and the "Microsoft Visual C++ Redistributable" are installed (see picture 2).



Picture 2: C++ Redistributable Installation

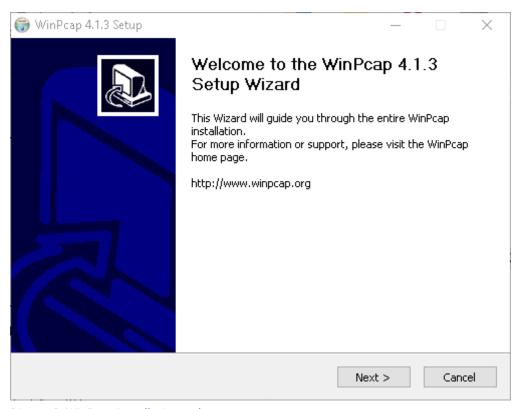
Read and agree to the license of terms and press "Install".

If the "Microsoft Visual C++ Redistributable" is already installed, the setup tool might return the error "0x80070666". In this case hit "close" and continue the KVM – SWITCHING MANAGER installation.

Next the driver "WinPcap" will be installed on the PC. If the driver is already installed, the installer will ask if the installation should be forced. This is only necessary if the versions are different.

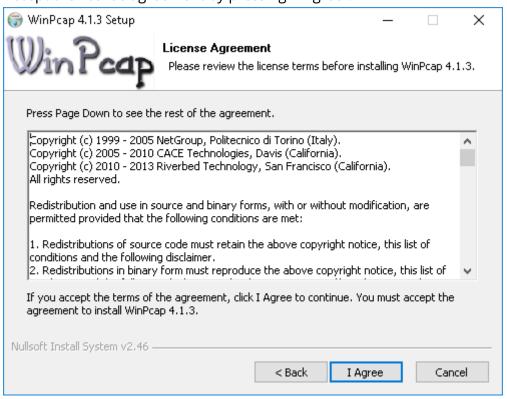
To run the WinPcap installation select "Next".

2. INSTALLATION



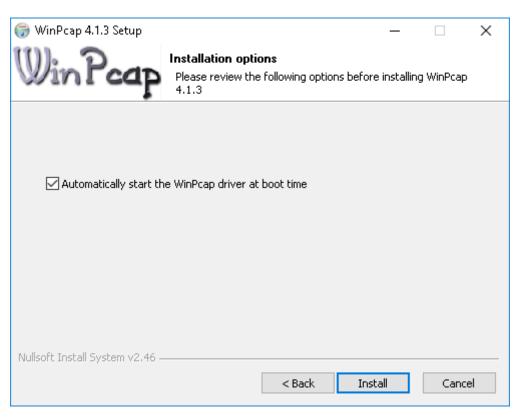
Picture 3: WinPcap installation welcome screen

Accept the license agreement by pressing "I Agree".



Picture 3: WinPcap installation welcome screen

Activate "Automatically start the WinPcap driver at boot time" and press "Install".



Picture 5: WinPcap installation options

After the successful installation close the window by hitting "Close".

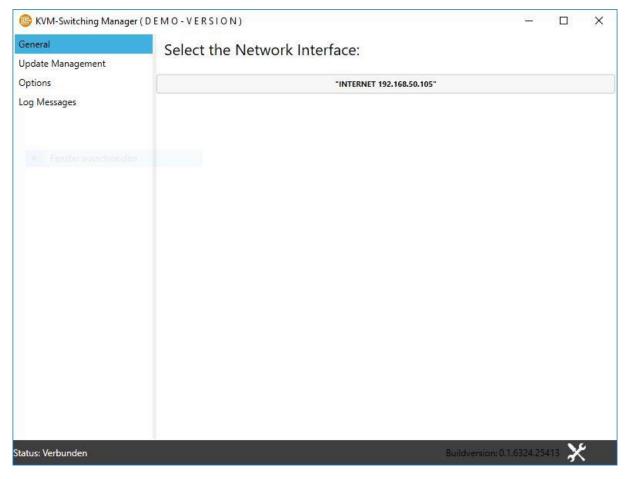
3. CONNECTING THE PC TO THE KVM-EXTENDER NETWORK

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.

4. FIRST START AND SETUP

Run the KVM – SWITCHING MANAGER using the linkage on the desktop. At the first start the manager will display the "General Settings". Here the network interface which is connected to the Extender-Network can be selected. The network interfaces can be identified by their IP-Address (see picture 6).



Picture 6: General Settings

4. FIRST START AND SETUP

After selecting the interface, the KVM – SWITCHING MANAGER switches to the network overview (see picture 7). It will take some time until all Extenders are displayed. With an increasing number of endpoints on the network, the time until all Extenders are detected also gets longer. In MVX/SVX networks with the max size of 48 endpoints it can take up to a minute until all Extenders are displayed.



Picture 7: Extender Network overview

The three basic commands of the KVM-Extender-Network are connect, disconnect and share.

5.1 CONNECTING

In order to connect two Extenders select one Extender by clicking on it. A selected Extender will change its colour to green and the menu buttons appear (see picture 8).



Picture 8: selected Extender with menu buttons

After selecting the first connection partner click on the second one. Directly after the second partner is selected the two Extenders will connect. Possibly ongoing connections of the two participating Extenders are terminated.

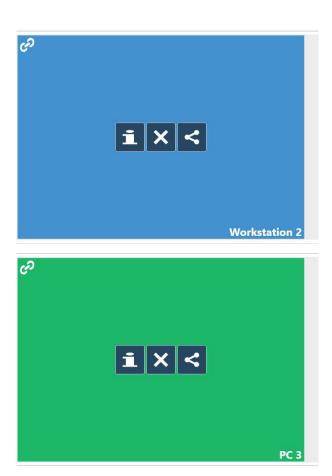


Picture 9: Extender Network overview

Connected Extenders are colored blue and have the name of their partner displayed under their own (see picture 9). Also, the connection is represented by the chain symbol on the left.

5.2 DISCONNECTING

To terminate a connection between two Extenders, select the Extender which should be disconnected. A selected Extender will change its colour into green and the menu buttons appear (see picture 8). The partner Extender will stay blue but also show the menu buttons (see picture 10).



Picture 10: Disconnecting

Now in order to disconnect the Extenders from each other hit the menu button with the "X" symbol on one of the Extenders. After a successful disconnect the Extenders will change their colour to yellow and display "<not connected>" instead of their partner's name (see picture 11).

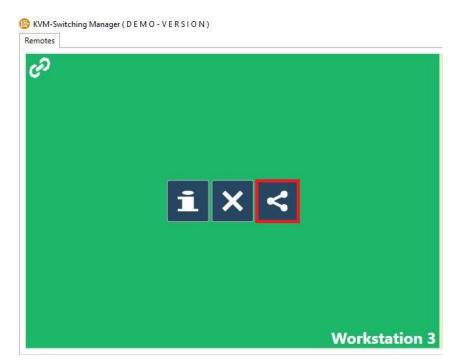


Picture 11: Extender with no partner

5.3 SHARING

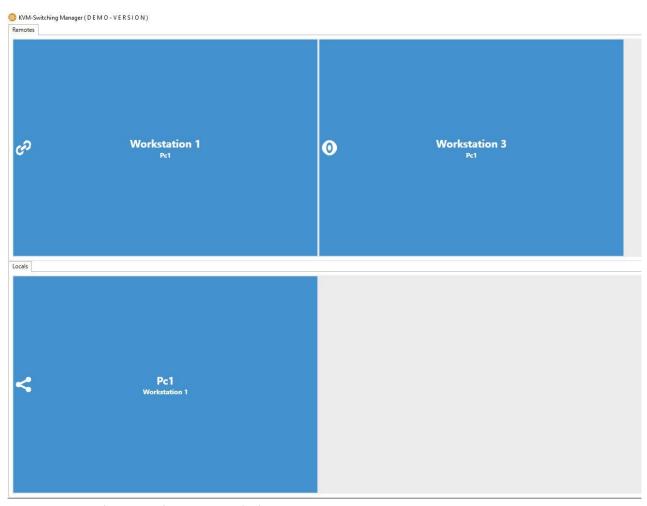
To use sharing, it has to be enabled in the network settings of every Extender. This setting can be accessed from every remote Extender using the onscreen display. To get more information about changing the network settings and the functionality of sharing, please consult the Switching option manual.

To share the video signal from one source with multiple monitors, at first a standard connection has to be established. This connection will transmit all information whereas a shared connection will just transmit the video signal. In order to share the video of an ongoing connection, select one of the participating Extenders. Now hit the share icon (see picture 12).



Picture 12: Sharing menu-button

Next click on the remote-Extender you want the video to be shared with. The Extender turns blue and on the left side the "eye" symbol appears (see picture 13). The local-Extender's icon also changes to the "share" symbol.



Picture 13: Extender Network overview with sharing

5.3.1 DISCONNECTING A SHARED CONNECTION

To end the video sharing just select the Extender you want to remove from the share and hit the "X" menu button.

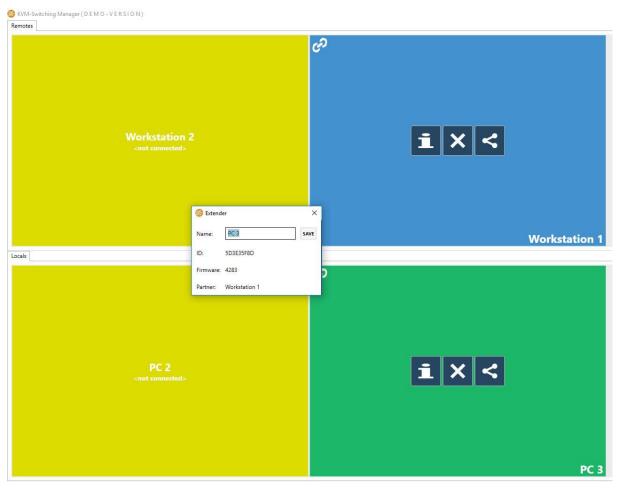
ATTENTION! If the main connection between local and remote Extender is terminated all sharing-connections will also be disconnected.

6. NAMING KVM-EXTENDER/EXTENDER INFORMATION

To maintain a clear view, naming the endpoints of the Extender-Network is key. In order to rename an Extender, open the Extender information window by selecting the Extender and clicking on the "i" menu button. The appearing window displays information like

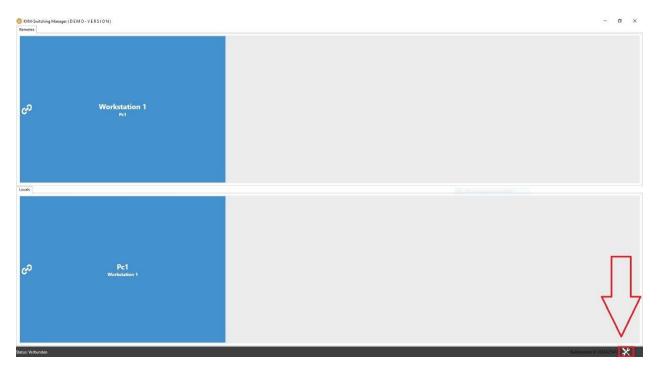
- the name of the Extender,
- the ID,
- the currently running firmware and
- the name of the partner (if it's connected).

Now to rename the Extender, type the new name into the "Name" input box (see picture 14). To save the new name hit the "SAVE" button. The name is stored inside the KVM-Extender, which means that the name also gets updated in the OSD menu of the Extenders.



Picture 14: Extender information window

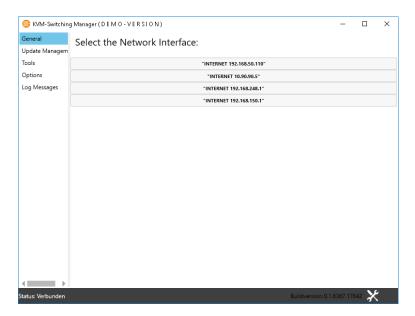
The toolbox contains utilities and options to help the user manage the KVM Network. To enter the toolbox, click the tool symbol in the right bottom corner (see picture 15).



Picture 15: Toolbox button

7.1 GENERAL SETTINGS

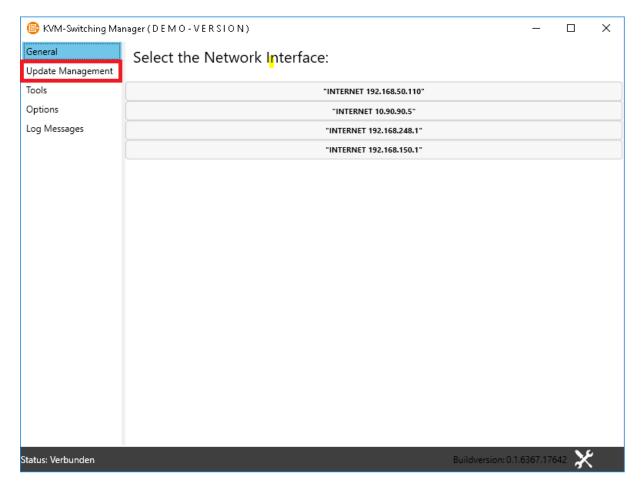
In here the network interface can be selected or changed. Interfaces are named by their IP address. The IP of the network interface has no influence on the behaviour of the KVM-Extender.



Picture 16: Network interface selection

7.2 UPDATE MANAGER

The update manager is a tool for updating KVM-Extenders on the Extender-Network. It is possible to update a single Extender or an entire network. An Extender can also be updated if it's directly connected to the PC. The update manager can be accessed inside the Toolbox on the left side under "Update Management" (see picture 17).



Picture 17: Update management menu entry

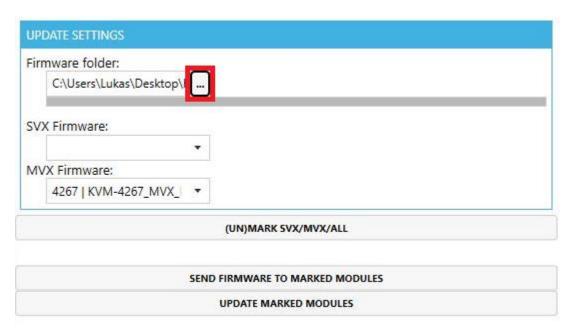
7.2.1 SUPPORTED FIRMWARE

The KVM – SWITCHING MANAGER currently supports all 42XX firmware versions (SVX and MVX).

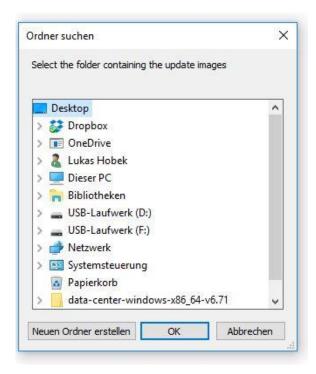
7.2.2 CHOOSING A FIRMWARE FILE

The first step of the update process is choosing the firmware file. The KVM – SWITCHING MANAGER uses the same bitmap files as the KVM-Extender use to update themselves. In

order to select a file, hit the "..." button in the "Update Settings" menu on the right (see picture 18).



Picture 18: Update settings



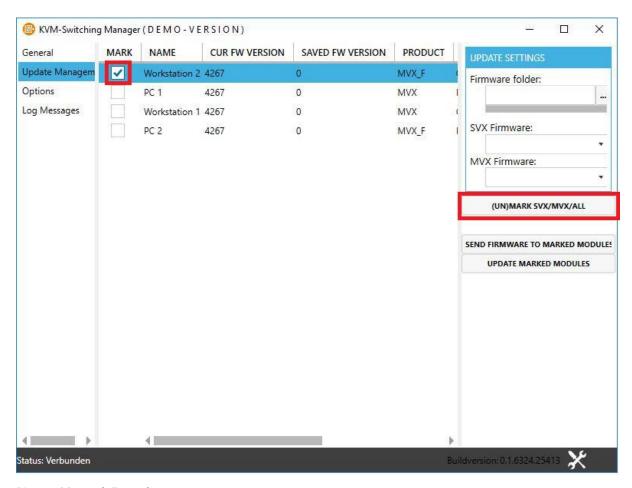
Picture 19: Update folder selection

Choose the folder containing the bitmap files (see picture 19).

After the folder is selected all compatible files will be listed in the dropdown menu corresponding to their Extender type. Select the firmware version which should be installed on the Extenders.

7.2.3 TRANSMITTING AND UPDATING THE FIRMWARE

The update process is divided into two parts. At first the firmware information is sent to the Extenders into the "Save Partition". To do this mark the units that should receive the firmware either by checking the marks or hitting the "(UN)MARK ALL" button, if all Extender should get the new firmware (see picture 20).



Picture 20: mark Extenders

To start the transmitting process, click "SEND FIRMWARE TO MARKED MODULES". The update manager indicates that the information is sent by a blue progress bar in the column "UPDATESTATUS" (see picture 21). After the transmission all Extenders have the new firmware version displayed in the "SAVED FW VERSION" column.

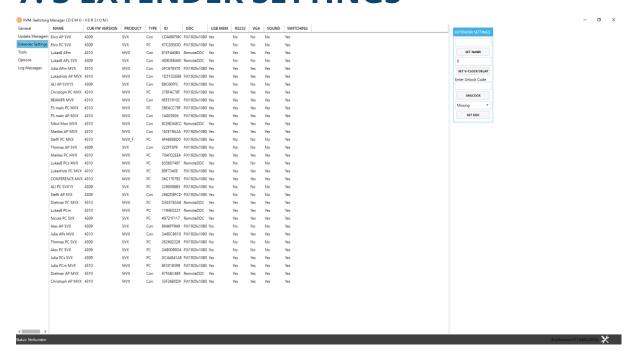


Picture 21: Update status

In the second part of the update the Extender will copy the firmware form the "Save Partition" to the "CURRENT" Partition, which is the actual update. To start the copying process hit "UPDATE MARKED MODULES".

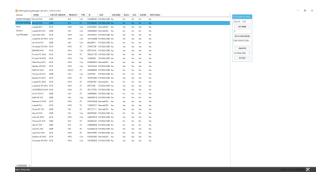
The Extenders will start the update, reboot and after the update has finished, the new firmware is shown in the "CUR FW VERSION" column.

7. 3 EXTENDER SETTINGS



In Extender Settings it is possible to change many Settings of the Extender. It also gives information about the most important information of the Extenders (ID,DDC and unlocked Options).

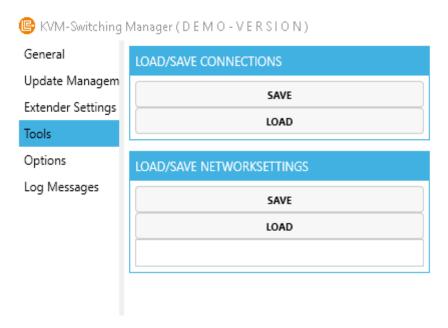
To change settings simply select an Extender.



Now on the right hand side you can change the settings of the Extender by selecting or tipping the new settings and kicking the button according to the value to be set. After the Extender has rebooted the new settings are set. NOTE: Changing the V-Clock Delay requires the FW-Version 4311 or higher.

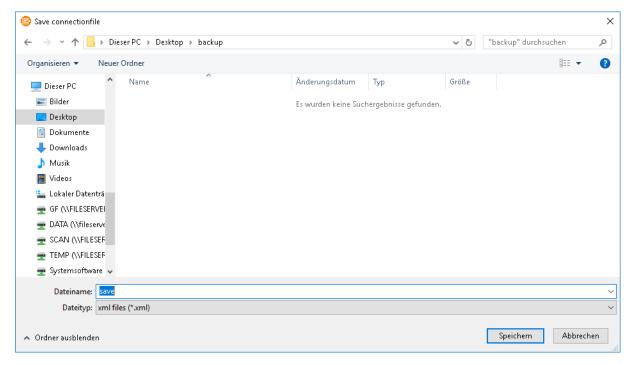


In the section Tools it is possible to SAVE and LOAD configurations and settings of the network.



LOAD/SAVE Connections:

Here you can back up the current state of connections in the network. Klick the SAVE button.



And save the file.

When loading the file back all connections will be re-established.

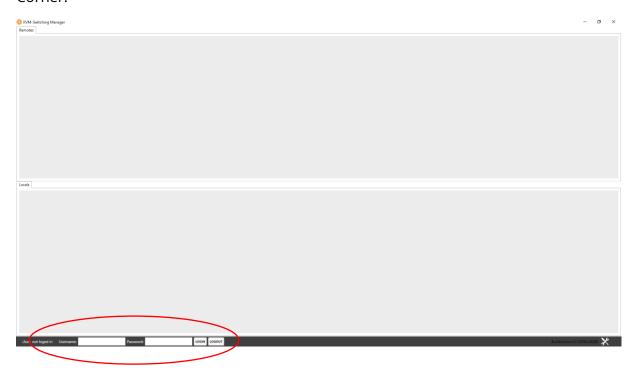
Under LOAD/SAVE NETWORKSETTINGS all Extenders in a Network can be saved and loaded into a new Extender Network.

7. 4 USER LOGIN

The Switching Manager uses a simple User Management System.

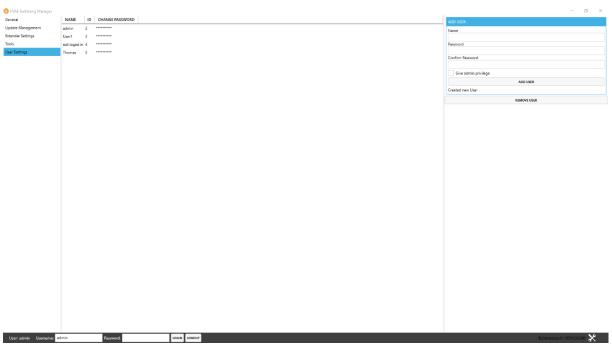
The Default Administration Login is User:admin PW:Admin.

To Login Type the Username and Password into the Input boxes in the left bottom Corner.



To Logout Click the Logout Button.

The users can be managed in the User Settings menu



Here Users can be added and removed by the operator.

There are 3 types of Users

Not logged in: Is not allowed to see anything

User: Can view Settings and Extender Informations.

Admin: Can change Settings; Add/Remove Users; Run Updates

8. SUPPORT

If you have any questions about kvm-tec products, please contact us.

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