Kvm-tec = C

product catalog
The kvm-tec development team has set itself another goal: To give each KVM extender a very special touch and therefore to develop innovative features that enrich the KVM world. Through our own developments in the field of video compression, video transmission and USB transmission, we have managed to perfectly match these 3 factors and thus we have the greatest possible flexibility for USB devices and can therefore also offer the shortest mouse monitor latency on the market with perfect video compression. (<2ms) for our new generation of Full HD Extender FLEXline and EASYline the latency is 1.38 ms

KVM TEC DISTRIBUTORS & SALES PARTNER

Our authorized kvm-tec distributors in the KVM Global concept have established a lot of know-how about kvm-tec products and each of our distributors is an expert in his field... Contact one of our local partners, or get connected from our headquarters.
office@kvm-tec.com
phone +43 2253 81912

Everything starts with passion

Development is one of our passions and is anchored in the DNA of our technical engineers. (To tell you a secret, we have three passions - the other two are marketing and sales.)

Here are some reasons what makes our kvm-tec products so special!

COST EFFICIENCY

The developers have one goal and that means efficiency in the design of the board and efficiency in the selection of components and FPGA chips. You’d be surprised how long it takes to tinker and design components on the board to create super cost efficiency.

IN HOUSE DEVELOPMENT

Our development team places great emphasis on in-house developments. This makes our products unique and offers an excellent price-performance ratio. We would like to present you some of our own developments - like our Line-to-Line transmission with almost zero latency, how we transmit 4k signals without quality loss with Redrivers, or how it is possible to make a native transmission (uncompressed) also redundant possible, or how you can work from a remote workstation and have full access to the matrix switching system, or how you can connect to an existing KVM system with a single FLEXline local unit and this make your KVM system fit for the future.
kvm-tec Products

Let’s connect!

The KVM Local Unit
for Zero Space in the Rack
KVM Extender- Transmitter over IP in DVI-D, USB in CATx

EASYLINE - tune in the easy KVM world
for Matrix Switching Systems up to 56 endpoints without Usersystem
smartEASY single & dual copper
masterEASY single & dual in copper and fiber

FLEXline - the customized system
SMARTflex MASTERflex
MAXflex USBflex, IndustryFLEX
KVM Extender over IP in Full HD, single & dual, redundant, Fiber & copper, Switching System up to 100/1000 endpoints

media4Kconnect
the engineered system
media4Kconnect DP1.2
redundant & uncompressed
4K Displayportextender Fiber

media4Kconnect
Special with RS232 and sound analog
media4Kconnect DP1.2
redundant & uncompressed

12GSDI - 4K
Ultraslimer 12GSDI - 4K Extender
Max. SDI Input/Output Distanz 75m @ 11.88Gbps
Local 12G SDI Output
SCALABLE LINE
With the freely scalable ScalableLINE in 4K/5K and Full HD, there are almost no limits to the system architecture of a KVM system in the Situation Room. Up to 16 sources can be assigned arbitrarily via the user interface, displayed on one monitor, scaled arbitrarily and operated. PIP and overlapping windows, cut it out - parts of an image can be cut out and and and and.

Scalable Line 4K/5K Full HD - Free Scalable

4K MULTIVIEW COMMANDER CLASSICLINE
content from 4 sources can be controlled and operated with one mouse and one keyboard on one 4K screen

4K Multiview Commander 4K and Full HD

GATEWAY - DIE CONNECTION TO VIRTUAL MACHINES
GATEWAY2GO FOR REMOTE WORKPLACES

GATEWAY
Access to virtual machines
Gateway

GATEWAY2GO
Real Remote Workplace & Home Office
Real remote access to the KVM switching system
Windows App
MATRIX SWITCHING SYSTEMS & SIMULTANEOUS DOWNSCALING

MATRIX SWITCHING SYSTEM
Superfast switching without time delay for matrix Switching systems up to 2000 endpoints and more Systems with standard network components

MATRIX VARIO SYSTEM
Simultaneous Downscaling from 4K to Full HD 4K sources can be displayed simultaneously in 4K and with downscaling in Full HD on the remote unit

SWITCHING MANAGER & API

Switching Manager Software
the web-based Switching Manager software

API Service for Switching Manager
for the connection to your software

KVM SECURITY

KVM Secure Hardware Separator
for the complete separation of the dedicated network from the outside world (Office network, WAN, Internet)
The KVM Local Unit for Zero Space in the Rack

KVM Extender-Transmitter over IP in DVI-D, VGA, USB in CATx

ECOsmart is a highly optimized transmitter (local) KVM extender for zero space in the rack. ECOsmart in CAT version for distances up to 150m/492ft and resolutions up to 1920 x 1200 @60 Hz. ECOsmart is compatible with standard network components. Can be used in KVM4Future matrix switching system up to 2000 endpoints or for point to point connections.

Power can be supplied via USB or an external power supply.

In-house developed USB 2.0 technology allows great flexibility in connecting to USB HID devices, such as mice and keyboards, tablets, etc.

ECOsmart is like all kvm-tec extenders too fast for slow latencies - latency 0.47 ms

With perfect in-house developed video compression, lossless video and audio transmission (embedded sound) is possible.

Good vibes with ECOsmart and Gateway2go

It couldn’t be simpler - plug ECOsmart into the server room and via a VPN tunnel a point to point connection to Gateway2go is possible - no matter where your workstation is, in the office, at home etc - the good vibes of ECOsmart and Gateway2go enable a remote point to point connection with zero space wherever it is needed.

- for DVI-D in dongle format
- USB 2.0 transparent
- Sound embedded
- Full HD videos in real time
- Point to point or
- Switching via OSD and Switching Manager
- USB 2.0 transparent
- Zero space factor for a lot of space in the server room with zero RU
Easyline smartEASY single & dual

FULL HD - KVM EXTENDER OVER IP
Tune in the easy KVM World

smartEASY - the easy going KVM Extender in Full HD from kvm-tec. For point-to-point connections and smaller switching systems up to 56 endpoints. No user system necessary, embedded sound, 4 single or 4 dual in 1RU, copper and fiber, embedded sound Video Sharing and USB Sharing, Multihead. *KVM High Performance System

FULL HD & 4K KVM Extender in one System

KVM Extender over IP in single/dual DVI, DVI-D, KVM Extender USB in CATx

All in one go
Matrix Switching Systems up to 56 endpoints without Usersystem

Bridging
Easy Switching without Switch

With Frontbridging, 2 Local EASYline Extenders can be bridged to 1 remote dual Extender (2 network sockets) & thus one or two screens can display the contents of the PCs simultaneously with different images and can be operated either right or left. 2 local single Units + 1 remote dual Unit = Bridging or Switching on 1 or 2 screens

With Backbridging, from one dual local extender can be shared to two single remote extenders. For all applications that require monitoring at different locations 1 dual local Unit + 2 remote Units = Bridging or Sharing on 1 or 2 screens

Easy Cross Move - Softwarefeature
both PCs can be operated with one mouse and one keyboard

2 local Units + 1 remote Unit = Easy Cross Move with 1 keyboard & 1 mouse

... smart connections
DVI-D, USB2.0
KVM Extender over IP
Single or Dual in CATx/copper
max resolution 1920 x 1200 @60 Hz
max distance 150m/492ft
only one cable for USB and Video
Sound embedded
Full HD Videos in real time
USB transmission rate max 480Mbit/s
Firmware flash upgrade without cable
DVI extension without loss of quality
freeze last image Feature (red frame )
Switching included
4 Single/dual in 1 RU
Easy 
master

KVM High Performance System
FULL HD & 4K KVM Extender in one System

KVM Extender Full HD  DVI, DVI-D, VGA & KVM Extender USB in CATx & Fiber
Single & Dual

EASYline - the easy going KVM Extender in Full HD from kvm-tec. For point-to-point connections and smaller matrix switching systems up to 56 endpoints. No user system necessary, embedded sound, 4 single or 4 dual in 1RU, copper and fiber, embedded sound Video sharing, USB sharing, multiread.

**All in one go**
Matrix Switching Systems up to 56 Endpoints without user system

**Bridging**
Easy Switching without switch

With **Frontbridging** 2 Local EASYline Extenders can be bridged to 1 remote dual Extender (2 network sockets) & thus one or two screens can display the contents of the PCs simultaneously with different images and can be operated either right or left.

- 2 local single Unit + 1 remote dual Unit
  = Bridging on 1 or 2 screens

With **Backbridging** from one dual local extender can be shared to two single remote extenders. For all applications that require monitoring at different locations

- 1 dual local Unit + 2 remote Units = Bridging or Sharing on 1 or 2 screens

**Easy Cross Move** - Software feature
both PCs can be operated with one mouse and one keyboard

- 2 local Units + 1 remote Unit
  = Easy Cross Move with 1 keyboard & 1 mouse

...smart connections
DVI-D, USB2.0
KVM Extender over IP
Single or Dual in copper CATx & Fiber
max resolution
1920 x 1200 @60 Hz
max. distance 150m/492ft
only one cable for USB and Video
Sound embedded
Full HD Videos in real time
USB transmission rate
max 480Mbit/s
Firmware flash upgrade without cable
DVI extension without loss of quality
freeze last image Feature (red frame)
Switching & VGA included
Single Units :redundant for point to point, in the Matrix Switching System with Switch.
Upgrades: USB & Sound
4 Single/dual in 1 RU
FLEXline is the clever customized KVM System from kvm-tec. All FLEXline Extender have an ultraslim casing, are available in a single and dual version, have embedded sound. Are compatible with standard network components and are delivered with kvm-tec Switching Manager Software - switch up @ work.

Flexline saves space in a Rack. 4 single or 4 dual Extender in 1RU

Features - freeze last image, MAXflex with included mouse glide switch as software feature
USB2.0 in-house development, USB save feature, USB Emulation & USB sharing

The technology developed by kvm-tec enables a perfect combination of video compression and low (<5ms) delay time.

FLEXline single Extender are redundant

POE Upgrade (Switch supports POE) for all single and dual FLEXline Extender in copper
also available for 24V systems
SMARTflex single in copper

DVI-D/USB2.0 Extender over IP

SMARTflex single is a highly optimized KVM Extender over IP and covers a range of 150m/492ft at a resolution of 1920x1200@60Hz and is available in copper as single version.

The perfect tuning of kvm-tec video compression with a low latency (<5ms) allows signals to be transmitted without delay. USB and video are transmitted via CAT5e/6/7 cable.

Only one cable for USB and Video. Sound embedded.

Point to point or in Matrix Switching System up to 100 endpoints. Switching Manager switch up@work - included.

SMARTflex dual in copper

DVI-D/USB2.0 Extender over IP

SMARTflex dual is a highly optimized KVM Extender over IP and covers a range of 150m/492ft at a resolution of 1920x1200@60Hz and is available in copper as dual version.

The perfect tuning of kvm-tec video compression with a low latency (<5ms) allows signals to be transmitted without delay. USB and video are transmitted via CAT5e/6/7 cable.

Only one cable for USB and Video. Sound embedded.

Point to point or in Matrix Switching System up to 100 endpoints. Switching Manager switch up@work - included.
for point to point connection or in Switching Systems up to 100 endpoints. Switching Manager Software - switch up@ work- included
freeze last image feature
USB2.0 in-house development, USB save feature, USB Emulation Mode & USB Sharing
**MASTERflex single redundant in copper**

DVI-D / DVI-I / USB2.0 Extender over IP

MASTERflex single redundant is a highly optimized KVM Extender over IP and covers a range of 150m/492ft at a resolution of 1920x1200@60Hz and is available in copper as single redundant version for high security in critical applications.

The perfect tuning of kvm-tec video compression with a low latency (<5ms) allows signals to be transmitted without delay. USB and video are transmitted via CAT5e/6/7 cable.

Only one cable for USB and video, sound embedded & sound analog, full HD videos in real time, USB transmission rate max 480Mbit/s, firmware flash upgrade without cable, VGA in - DVI out, DVI extension without loss of quality.

4 single extender in 1RU

In-house developed transparent USB 2.0 interface. The kvm-tec “USB save” function prevents virus intrusion via the USB interface by disabling mass storage devices. Sound analog, VGA and USB memory upgrade are preinstalled and unlockable.

**MASTERflex single redundant in fiber**

DVI-D / DVI-I / USB2.0 Extender over IP

MASTERflex single redundant is a highly optimized KVM Extender over IP and covers a range of 150m/492ft at a resolution of 1920x1200@60Hz and is available in fiber as single redundant version for high security in critical applications.

The perfect tuning of kvm-tec video compression with a low latency (<5ms) allows signals to be transmitted without delay. USB and video are transmitted via fiber cable.

Only one cable for USB and video, sound embedded & sound analog, full HD videos in real time, USB transmission rate max 480Mbit/s, firmware flash upgrade without cable, VGA in - DVI out, DVI extension without loss of quality.

4 single extender in 1RU

In-house developed transparent USB 2.0 interface. The kvm-tec “USB save” function prevents virus intrusion via the USB interface by disabling mass storage devices. Sound analog, VGA and USB memory upgrade are preinstalled and unlockable.

**MASTERflex dual in copper**

DVI-D / DVI-I / USB2.0 Extender over IP

MASTERflex dual is a highly optimized KVM Extender over IP and covers a range of 150m/492ft at a resolution of 1920x1200@60Hz and is available in copper as dual version.

The perfect tuning of kvm-tec video compression with a low latency (<5ms) allows signals to be transmitted without delay. USB and video are transmitted via CAT5e/6/7 cable.

Only two cables for USB and video, sound embedded & sound analog, full HD videos in real time, USB transmission rate max 480Mbit/s, firmware flash upgrade without cable, VGA in - DVI out, DVI extension without loss of quality.

4 single extender in 1RU

In-house developed transparent USB 2.0 interface. The kvm-tec “USB save” function prevents virus intrusion via the USB interface by disabling mass storage devices. Sound analog, VGA and USB memory upgrade are preinstalled and unlockable.

**MASTERflex dual in fiber**

DVI-D / DVI-I / USB2.0 Extender over IP

MASTERflex dual is a highly optimized KVM Extender over IP and covers a range of 160km/99mi at a resolution of 1920x1200@60Hz and is available in fiber as dual version.

The perfect tuning of kvm-tec video compression with a low latency (<5ms) allows signals to be transmitted without delay. USB and video are transmitted via fiber cable.

Only two cables for USB and video, sound embedded & sound analog, full HD videos in real time, USB transmission rate max 480Mbit/s, firmware flash upgrade without cable, VGA in - DVI out, DVI extension without loss of quality.

4 single extender in 1RU

In-house developed transparent USB 2.0 interface. The kvm-tec “USB save” function prevents virus intrusion via the USB interface by disabling mass storage devices. Sound analog, VGA and USB memory upgrade are preinstalled and unlockable.
MAXflex single redundant in copper
DVI-D/ DVI-I USB2.0 Extender over IP. The highly optimized KVM Extender over IP has a range of 150m/492ft at a resolution of 1920x1200 @60 Hz and is available in copper as single redundant version for high security in critical applications. Only one cable for USB and Video, Sound embedded & sound analog (opt) RS 232 interface, freeze last image feature.

MAXflex single redundant in fiber
DVI-D/ DVI-I USB2.0 Extender over IP. The highly optimized KVM Extender over IP has a range of 500m/1640ft, 20km/12mi, 160km/99mi at a resolution of 1920x1200 @60 Hz and is available in fiber as single redundant version for high security in critical applications. Only one cable for USB and Video, Sound embedded & sound analog (opt) RS 232 interface, freeze last image feature.

MAXflex dual in copper
DVI-D/ DVI-I USB2.0 Extender over IP. The highly optimized KVM Extender over IP has a range of 150m/492ft at a resolution of 1920x1200 @60 Hz and is available in copper as dual version. Only two cable for USB and Video, Sound embedded & sound analog (opt) RS 232 interface, freeze last image feature.

MAXflex dual in fiber
DVI-D/ DVI-I USB2.0 Extender over IP. The highly optimized KVM Extender over IP has a range of 500m/1640ft opt 20 km/12mi, 160km/99mi at a resolution of 1920x1200 @60 Hz and is available in fiber as dual version. Only two cable for USB and Video, Sound embedded & sound analog (opt) RS 232 interface, freeze last image feature.

kvm-tec standards for all MAXflex Extender
The perfect tuning of kvm-tec video compression with a low latency time (<5ms) enables a delay-free transmission of the signals. USB and video is transmitted via CAT5e/6/7 cable. Due to the DVI extension Full HD videos can be transmitted in real time.
USB memory, sound, RS232, analog VGA- as DVI transfer are already included.

With the included switching upgrade up to 1000 endpoints, the MAXflex Extender can be integrated into a matrix switching system up to 1000 endpoints in conjunction with a standard network switch. kvm-tec Switching Manager . switch up/work- the intelligent software enables convenient management and intuitive operation of KVM extenders in the switching system. A Windows PC or Tablet with network interface is required for commissioning and operating the software.
USB2.0 in-house development, USB save feature, USB Emulation Mode & USB Sharing

SOFTWARE FEATURE
Mouse glide & Switch
up to 16 screens can be operated and controlled with 1 mouse & 1 keyboard
USBflex Extender over IP is the active extension for USB 2.0 high speed signals and has a range of 150m/492 ft. in copper as single version available.

The in-house developed transparent USB 2.0 interface supports USB devices like tablets, touch screens, sound modules, printers, USB sticks and USB hard drives.

The kvm-tec „USB save“ function prevents virus intrusion via the USB interface by disabling mass storage devices.

The USBflex Extender can be integrated into a matrix switching system up to 1000 endpoints in conjunction with a standard network switch. With the included Switching Manager software – switch up@work – convenient and intuitive management of KVM extenders in the switching system is possible.

USB 2.0 in-house development

USBflex Extender over IP is the active extension for USB 2.0 high speed signals and has a range of 160km/99mi in fiber as single version.

The in-house developed transparent USB 2.0 interface supports USB devices like tablets, touch screens, sound modules, printers, USB sticks and USB hard drives.

The kvm-tec „USB save“ function prevents virus intrusion via the USB interface by disabling mass storage devices.

The USBflex Extender can be integrated into a matrix switching system up to 1000 endpoints in conjunction with a standard network switch. With the included Switching Manager software – switch up@work – convenient and intuitive management of KVM extenders in the switching system is possible.

USB 2.0 in-house development
Software feature Mouse Glide & Switch

up to 16 monitors can be operated with one mouse and keyboard

media4Kconnect
stand alone
uncompressed
redundant

media4Kconnect
uncompressed

If one port fails, there is NO black screen as the other port immediately takes over.

something is wrong - immediate notification
Since there is almost no noticeable difference between compressed and uncompressed with kvm-tec uncompressed, the link failure could be easily overlooked.
kvm-tec engineered 4K System

4K DisplayPort 1.2 Extender + uncompressed + redundant

Keep it simple and buy only what you need with the unique engineered 4K system from kvm-tec, both versions can be upgraded later.

4K DisplayPort 1.2 Extender over IP in fiber with a range of 300m/984 ft. -120km/74mi at a resolution up to 4096x2160 @ 60Hz with perfect color coding at 4:4:4 @8 bit per color. The perfect tuning of kvm-tec video compression with a low latency allows a delay-free transmission of the signals. USB and video is transmitted with only one cable. 4K videos can be transmitted in real time. For Matrix Switching Systems up to 2000 endpoints. included kvm-tec Switching Manager Software - switch up@work - for intuitiv management in the Switching System.

With the unique kvm-tec modular system the media4Kconnect Extender with the ultraslim housing is unbeatable in price and performance as well as in the possible fields of application. media4Kconnect is available in different versions. As stand alone 4K Extender, as an uncompressed or redundant version.

Software feature Mouse glide & Switch

The media4Kconnect in redundant guarantees failure safety for critical applications.

The media4Kconnect in uncompressed enables transmission without artifacts even with difficult bit patterns.

feature - freeze last image

USB2.0 in-house development, USB save feature, USB emulation mode & USB sharing.
The media4Kconnect extender with the ultracompact housing is unbeatable in price-performance ratio as well as in the possible fields of application due to the unique module system of kvm-tec.

With the included switching upgrade up to 2000 endpoints and more (expandable with endpoint packages) the media4Kconnect extender can be integrated into a matrix switching system in combination with a standard 10G network switch. Switching can be done either via the OSD menu with key combination, or directly via the switching manager.

The intelligent software kvm-tec Switching Manager allows a comfortable management and intuitive operation of the KVM Extender in the switching system. A Windows PC or tablet with network interface in the network is required for commissioning and operation of the software.

Flexible due to USB 2.0 technology developed in-house.

RS232, sound analog & embedded

Software feature: Mouse glide & Switch

Warranty extension up to 5 years

keep it simple and buy what you want redundant and uncompressed can also be activated later on
12G SDI Interface Extender over IP in Fiber with a range of 300m with a max resolution of 3840 x 2160 @ 60Hz with a perfect color coding with 4:2:2 @ 10 bit per color. Perfect tuning of kvm-tec video compression with a low latency - 0.47 ms enables a delay-free transmission of signals. USB and video is transmitted over one cable. 4K videos in real time.

The 12G SDI media4Kconnect extender with the ultra-slim housing is unbeatable in price-performance, as well as in the possible areas of application. 12G SDI media4Kconnect is available in different versions. As a stand alone 4K extender or as an uncompressed or redundant version.

12G SDI media4Kconnect is also available in a redundant or uncompressed version. The 12G SDI media4Kconnect in the redundant secure variant guarantees fail-safe operation for critical applications. The 12G SDI media4Kconnect with real uncompressed enables transmission without artifacts even with extreme bit patterns.

Flexible due to USB 2.0 technology developed in house.

Software feature: Mouse glide & Switch

12G SDI KVM Extender over IP

in redundant secure or real uncompressed version in stand alone variant in Ultraslim housing

12G SDI over IP in fiber with a resolution of 3840 x 2160 @ 60Hz with a perfect color coding with 4:2:2@10 bit per color.

Max. SDI input/output distance 75m @ 11.88Gbps

SFP+ Modul-Multimode up to 300m/984ft (opt 120km/74 mi )

Latency time 0.47 ms

in-house developed video compression and USB 2.0 transparent

RS232, sound analog u embedded - Q3/21

in a set combinable with media4Kconnect remote & Scalable Line remote
The new KVM Dimension - 4K and Full HD can be flexibly combined and up to 16 sources can be displayed, operated and scaled.

For Full HD sources, MAXflex dual local with Scalable Remote Unit becomes ultra-flexible the remote unit of ScalableLine. For 4K applications, Scalable Local is combined with Scalable Remote.

Flexible - more flexible - most flexible is that HD and 4K can be used together for the different sources.

ScalableLine 4K - Displayport 1.2 extender remote or local over IP in fiber with a range of 300m/984ft at a resolution of 4096x2160 @ 60Hz with a perfect color coding with 4:4:4 @8 bit per color.

The perfect tuning of kvm-tec video compression with a low latency - 0.47ms enables a delay-free transmission of the signals. USB and video is transmitted over one cable. 4K videos in real time. Great flexibility with USB devices as USB2.0 was developed in-house.

VideoWall functions with Scalable Line

ScalableLine 4K Extender with the ultra slim housing enables video wall functions at an excellent price - performance ratio without additional hardware. Switching up to 2000 endpoints (expandable with endpoint packages). Compatible with standard 10G network switches. Switching can be done either via the OSD menu with shortcut keys, or directly via the switching manager.

THE kvm-tec ROAD for a flexible System architecture

The intelligent software kvm-tec Switching Manager enables a comfortable management and intuitive operation of all KVM extenders in the switching system. A Windows PC or tablet with network interface in the network is required for the installation and operation of the software.

Software feature: Mouse glide & Switch 4Units in 1 RU

Assignment of any sources via the user interface

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Assignment of any sources via the user interface

The perfect tuning of kvm-tec video compression with a low latency - 0.47ms enables a delay-free transmission of the signals. USB and video is transmitted over one cable. 4K videos in real time. Great flexibility with USB devices as USB2.0 was developed in-house.
4K Multiview Commander

4K Multiview Commander Classicline
4 Sources + 1 Screen =
4K Multiview Commander for Control Rooms

Classiline 2000, with 4K Multiview Commander software feature allows video signals from 4 different PCs to be displayed on just one 4K monitor simultaneously. The USB signals can be routed to the appropriate PC depending on the mouse position. With the 4K Multiview Commander, depending on the resolution, up to 4 different PCs can be controlled and operated with one 4K monitor. Also with different operating systems. Operations System Independent

e.g. Linux Windows

the kvm-tec solution for Control Rooms

From remote/CON up to 120km/77mi
Compatible with standard networks
Zoom function - any part of the screen can be enlarged to full screen size
Red frame - for easier operation, a red frame is displayed for orientation when changing screens
Ergonomic workstations for many control room applications

The SOFTWARE FEATURE 4K Ultraline and Matrixline

The 4K Multiview Commander is an additional feature for the 4K KVM Extender. The feature allows video signals from different PCs to be displayed on only one 4K monitor at the same time. With the kvm-tec innovation, the PCs can also be controlled and operated via the kvm-tec transparent USB 2.0 transmission. This feature is unique in the world. By cleverly managing the USB transmission, kvm-tec has succeeded in making each screen content individually usable as well. The USB signals can be routed to the appropriate PC depending on the mouse position. With the 4K Multiview Commander, depending on the resolution, up to 4 different PCs can be controlled and operated with one 4K monitor. Even with different operating systems. This innovative kvm-tec feature enables ergonomic and space-saving work with 4k applications in control and monitoring rooms. The 4K Multiview Commander is available stand alone or in configuration with the Switching Manager.

Operations System independent - e.g. Linux Windows
kvm-tec Gateway - the connection to virtual machines

Access to virtual machines additional to your real time switching system

kvm-tec Gateway - the perfect combination of a real-time KVM system and a flexible remote desktop system. The gateway has the similar function of a thin client and in combination with Maxflex Local Extender it is the ideal combination with virtual machines in the switching system. With kvm-tec Gateway the connection to virtual machines or remote PCs outside the Switching network is possible.

Gateway can connect to virtual machines. 4 Login data can be stored and retrieved via hotkey. For so many users who want to work with virtual machines at the same time, one gateway is needed each.

Easy installation - first connect the MX/UX remote unit, then select the RDP protocol at the kvm-tec gateway, then enter the credentials and connect to the desired PC.

RDP and VNC are used as standard protocols.

Other protocols are on request.

Gateway2go

Windows App for Remote Workplaces & Home office

kvm-tec Gateway2go - the Windows App is an innovative software solution that allows users to connect to the kvm-tec switching network at any time and display a live image of a specific local unit. The app replaces the remote unit of a Maxflex and with the Gateway2go access the mobility of the user becomes very flexible and thus the control and operation of the extenders in the switching network is simplified. Gateway2go can also be installed in addition to a remote unit and supports Full HD video transmission. Multiple connections can be established simultaneously to enable management of different PCs. Mouse and keyboard data is authenticated in real time and transmitted live to the local part to ensure real-time security.

compatible with Windows 10.
With the switching upgrade, all extenders can be upgraded to the perfect KVM matrix switch in combination with a standard network switch (the upgrade is pre-installed and can also be activated after delivery with code), much cheaper and much less installation of cables. The Matrix Switching System can be intuitively connected, managed and controlled via the OSD menu or the kvm-tec Switching Manager software. A Windows PC or Tablet with network interface is required for commissioning and operating the software. Any number of switching managers can be used in a switching system.

The features included in the kvm-tec Switching Manager software, such as Mouse glide & switch - Live Preview and 4K Multiview Commander (NEW worldwide - up to 4 PCs can be controlled and operated via one 4K monitor) increase the security of applications in areas, wherever system control is required. (e.g. applications in medical areas, tunnel traffic monitoring, emergency control rooms). Very comfortable, ergonomic and intuitive operation is thus possible in monitoring and control rooms as well as in the medical field and offers decisive advantages in terms of safety.

Super fast switching in separate network via OSD menu or Switching Manager Software

In House Development

Network Environment

Usable in separate network by means of 1 Gigabit switch. 1 Gigabit bandwidth is required from any port to any other port. IGMP Snooping

4K KVM Extender requires 10 Gigabit bandwidth.

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.

DHCP management of IP addresses is supported by the KVM-TEC Matrix system, 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.
In the Matrix vario system, the media4K local unit is the star
Because in the Matrix VariO system, a single local media4Kconnect unit is everybody’s darling on the remote wishlist and two different resolutions can be displayed and edited simultaneously.

The big picture at kvm-tec
KVM 4 Future High performance KVM Systems
All kvm-tec KVM extenders can be combined in any way in the KVM 4Future system:
- 4K KVM Extender over IP: Scalableline, Media4Kconnect, Ultraline
- Full HD Extender over IP: FLEXline, KVM Eco Smart
  for zero space in the rack
+ Gateway and Gateway2go

Who is Who in the Matrix Vario System
Local Unit/TX/CPU: media4Kconnect – DP1.2 Extender in Fiber
Remote Unit/RX/CON: media4Kconnect for 4K resolution
Flexline KVM Extender over IP Extender for Full HD resolution
Gateway2go APP – for alle Remote – Home Office applications or in LAN

Who is for new KVMs? 4K or Full HD?
Many solutions have the disadvantage that a decision between 4K and Full HD has to be made during the planning phase. The Matrix Vario system allows 4K to be used where it is needed, making the solution more affordable and flexible to use.
We all learned during the COVID crisis that business continuity is an extremely important factor in all sectors of the economy. It has become clear to all of us that an immediate switch to remote workplaces is a “must” and also that the coverage of additional demand for remote workplaces must be covered over a certain period of time to ensure a smooth workflow.

Thus, with the kvm-tec 4Future REAL REMOTE system, it is also possible to work from remote workplaces in the KVM system.

kvm-tec has also developed a technology to connect the new generation FLEXline Full HD Extender to existing systems to enable modern and crisis-proof workplaces at low cost.

Innovation is needed for crisis-proof KVM systems

REAL REMOTE WORKPLACES & HOME OFFICE

CONNECT COMBINE & GO

We all learned during the COVID crisis that business continuity is an extremely important factor in all sectors of the economy. It has become clear to all of us that an immediate switch to remote workplaces is a „must” and also that the coverage of additional demand for remote workplaces must be covered over a certain period of time to ensure a smooth workflow.

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With the Gateway2Go App an immediate switch to REAL REMOTE WORKPLACES & Home Office is possible. Install the Windows App and you are ready to go! If you need more Real Remote Workplaces in peak times, then use the license model.

In the CONNECT COMBINE & GO system, the KVM 4 Future system can also be made to existing KVM systems of other manufacturers, which do not have VNC, RDP or the like.

The connection is made via a single FLEXline local unit and you are already in the future.

kvm-tec Gateway - enables access to virtual machines.

Homeoffice or Remote Workplace with Gateway2go

Access to virtual machines

Office with Workdesks

Serverroom with Softwaremanagement

Virtual machine

Gateway2go APP for increased demand

1GB connection each

Connection to pre-existing KVM systems CLASSICline and to systems of other manufacturers

www.kvm-tec.com
**Switching Manager**

The web-based kvm-tec software for the management of all kvm-tec extenders in the Matrix Switching System.

**web**

**intuitive operation and management**

- kvm-tec extenders in the switching system can be connected, disconnected and shared via the basic commands
- information of all extenders in the network can be queried
- Mouse glide & switch groups can be created and edited and arranged as desired
- Update Service
  - the operation of several users is possible
  - Main and user rights can be flexibly assigned and defined

**kvm-tec line - to - line transmission of videosignals**

With conventional transmissions, each image is analyzed and transmission only takes place after 4 frames. The analysis of an image takes 16ms and therefore a delay of 64ms results for the transmission.

With kvm-tec image transmission each line of an image is transferred immediately.

**kvm-tec video-compression and USB transmission**

Since the image is compressed in the process developed by kvm-tec, the transmission of a Full HD video requires only 1 Gigabit and thus only one cable. This results in a significant price advantage and low latency for interactive applications. The operation of mouse and keyboard is also without any delay. The advantage of this technology is that the signals can be transmitted via a 1 GBit network switch.

**kvm-tec 4K transmission without delay**

Delay-free transmission, as each image and each line is immediately transmitted using the kvm-tec method, in which the signal is regenerated by a re-driver and brought to the correct level to enable perfect transmission. This process is comparable to a ZIP file, where a lot of information is transferred in a very compact way. As with the ZIP file, kvm-tec converts each pixel and signal into a very compact form transferred and “unzipped” again. The 4K Extender uses 10 Gbit network technology.

**Communication**

Communication in the Web Switching Manager takes place via the API service, which translates the information for the extenders into understandable commands.

The Switching Manager can be operated via a web browser or as an app and can be used for a wide range of platforms and operating systems (Windows, Linux).

For the installation a tablet or PC is required and it can be chosen between automatic installation or self-configuration of the web server.

In the case of automatic installation, the API is automatically installed if desired. In the other case, the web server is configured first and then the installation continues. The server for API can also be set up virtually or in the cloud.

**Update Service**

- activate kvm-tec upgrades
- query & update of the current firmware version in the system

**API Interface**

API Interface for integrating the Switching Manager Software.

With API Interface the easy integrating in an existing Software or scripting of scenarios is possible. Operating system independent. Display of all available information of all extender in the system, Update management of all extenders in the Switching system

Simple read-out and changes of settings mouse glide & switch management, 4K Multiview Commander management activate kvm-tec upgrades, query & update of the current firmware version in the system, defined based on the open Open API 3.0 standard, easy integration into customer-specific software, callback mechanism for user-defined response to events.
The KVM SECURE NETWORK Separator is used to completely shield a dedicated KVM matrix network from the outside environment (office network, WAN, Internet). Since the two modules are only internally connected via DVI and USB, it is guaranteed that no network traffic of any kind can enter the other network. The KVM SECURE NETWORK Separator is completely immune to viruses or other attacks from the Internet.

The KVM Secure Hardware Network Separator is the combination of a Flexline Remote part with a Local part.

The KVM SECURE NETWORK Separator simplifies the planning of a large KVM network in a security-critical environment. The KVM network with high bandwidths for 4k video transmission can thus be considered completely isolated as a “hardware matrix”. The switching manager can be operated within the KVM network and can also be administered from outside via a separator.

The KVM SECURE NETWORK separator is compatible with the KVM-TEC UDP switching manager and the Gateway2Go. The remote part can be addressed via multicast IP addresses, the local part via unicast from Gateway2Go via VPN with limited bandwidth.
<table>
<thead>
<tr>
<th>Feature</th>
<th>copper /Fiber</th>
<th>copper /Fiber</th>
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**Part Nr**

- 6035 KVM Eco Smart local unit for Zero Space
- 6011 Single Set 6021 Dual Set
- 6012 Single Set CAT 6023 Dual Set CAT 6023 Single Set Fiber
- 6014 Single Set CAT 6024 Dual Set CAT 6016 Single Set Fiber 6026 Dual Set Fiber
- 6031 Single Set CAT 6032 Single Set Fiber
- 6014 Single Set CAT 6016 Single Set Fiber

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**Part Nr**

- 8111 Set 8121 Set 8112 Set 8113 Set 8123 Set 8114 Set 8124 Set
- 6035 KVM Eco Smart local unit for Zero Space
- 6011 Single Set 6021 Dual Set
- 6012 Single Set CAT 6023 Dual Set CAT 6023 Single Set Fiber
- 6014 Single Set CAT 6024 Dual Set CAT 6016 Single Set Fiber 6026 Dual Set Fiber
- 6031 Single Set CAT 6032 Single Set Fiber
- 6014 Single Set CAT 6016 Single Set Fiber

**Part Nr**

- 8111 Set 8121 Set 8112 Set 8113 Set 8123 Set 8114 Set 8124 Set
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<td><strong>Color depth</strong></td>
<td>5120 x 1440@60 Hz 4:4:4/8Bit</td>
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<td><strong>Distance Fiber</strong></td>
<td>300m/984ft opt 120 km /77mi</td>
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<td><strong>Switching Manager Software + OSD</strong></td>
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<tr>
<td><strong>USB Memory</strong></td>
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<td><strong>Sound embedded</strong></td>
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<tr>
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<tr>
<td><strong>Matrix Switching System expandable</strong></td>
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Switching Manager Software included
KVM Multiview Commander Systems

### Scalable Line

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<td>1920x1200@60 Hz</td>
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<td></td>
<td>5K 5120 x 1440 60Hz</td>
<td>4:4:4 8 Bit</td>
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<tr>
<td>Distance Fiber</td>
<td>300m/984ft opt 120 km/77mi</td>
<td>300m/984ft opt 120 km/77mi</td>
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<td>x</td>
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<tr>
<td>Software + OSD</td>
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<td>USB Memory</td>
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<td>Mouse glide &amp; Switch</td>
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<td>Matrix Switching System</td>
<td>up to 2000 endpoints</td>
<td>up to 2000 endpoints</td>
</tr>
<tr>
<td>expandable</td>
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<td>x</td>
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<tr>
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<td>4 in 19&quot; 1RU</td>
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<td>6990R Scalable Remote</td>
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### Multiview Commander 4K

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</tr>
<tr>
<td>Software + OSD</td>
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<td>USB Memory</td>
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<td>Matrix Switching System</td>
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<td>expandable</td>
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<td>6901R Ultraline Remote copper</td>
<td>6902R UVX Remote copper</td>
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**Assignment of any sources via the user interface**
KVM Network Security

The kvm-tec SECURE NETWORK Separator is used to completely shield a dedicated KVM Matrix network from the outside world (office network, WAN, Internet). Since the two modules are only internally connected via DVI and USB, it is absolutely guaranteed that no network traffic of any kind can enter the other network. The Separator is completely immune to viruses or other attacks from the Internet.

**REAL REMOTE SYSTEM**

with the Gateway2Go, an immediate switch to Remote Workplaces & Home Office is possible and the coverage of additional needs for Remote Workplaces over a certain period of time is possible with Gateway2Go licenses. With the kvm-tec 4Future REAL REMOTE system it is also possible to work from remote workplaces in the KVM system. With the Gateway the access to virtual machines can take place.

**CONNECT COMBINE & GO**

kvm-tec has also developed a new technology to connect the new generation FLEXline Full HD Extender to existing systems to enable modern and crisis-proof workstations at low cost.

**Gateway2Go**

- Access to virtual machines: kvm-tec Gateway2Go - the Windows App
- Additional to the Switching System: is an innovative software solution that allows the user to connect to the kvm-tec switching system at any time and work real remote in almost real time.
- Connection to PC via RDP VNC with M2 local: the app replaces the remote unit of a MAXflex
- RDP and VNC protocol: Part Nr 6850
- Part Nr 4005

**Gateway2Go Licenses**

- Part Nr 6017
- rec RRP 1250€

**KVM Network Security**

The kvm-tec Gateway & Gateway2Go is used to combine and go to the server room with software management, e.g. Workdesks with 2 monitors each for FLEXline remote and FLEXline local. The connection to pre-existing KVM systems CLASSICline and to systems of other manufacturers is possible with 1 GB connection each. The real remote system is also possible to work from the home office or remote workplace with Gateway2Go.
SMARTLINE single in copper
DVI-D/USB 2.0 KVM Extender
Resolution 1920x1200@60 Hz, Max. distance 150 m/492ft in copper.
Full HD videos in real time. USB 2.0 transparent - in house development. Only one CAT5e/6/7 cable for USB and video. USB save feature. Can be used in the Matrix Switching System up to 48 endpoints. Automatic Plug & Play installation DVI extension without loss of quality. Ultra compact up to 4 extenders in 19" Local (CPU) / remote (CON) Monitor output. Firmware Flash Upgrade without cable Transmission rate max 480 Mbit/s.
Feature - freeze last image, <5ms latency time

SMARTLINE dual in copper
DUAL DVI-D /USB 2.0 Extender over IP
Resolution 1920x1200@60 Hz, Max. distance 150 m/492ft in copper.
Full HD videos in real time. USB 2.0 transparent - in house development. Only two CAT5e/6/7 cable for USB and video. Can be used in the Matrix Switching System up to 48 endpoints USB save feature. Automatic Plug & Play installation. DVI extension without loss of quality. Ultra compact up to 2 Dual Extender in 19" 1RU. Local (CPU) - Remote (CON) Monitor output. Firmware Flash Upgrade without cable Transmission rate max 480 Mbit/s.
Feature - freeze last image, <5ms latency time
**MASTERline single in copper**

DVI-D/DVI-I 2.0 Extender over IP. Resolution 1920x1200@60 Hz. Max. distance 150 m / 492ft in copper. Full HD videos in real time. USB 2.0 transparent - in house development. Only one CAT5e/6 cables for USB and video. Automatic Plug & Play installation. DVI extension without loss of quality. Ultra compact up to 4 Extender in 19” 1RU. Screw on DVI Connector. Switching System up to 48 endpoints, freeze last image, <5ms latency time.

**Masterline single in fiber**

DVI-D/DVI-USB 2.0 Extender over IP with a resolution 1920x1200@60 Hz. Max. distance 160km/99mi in Fiber (opt with SFP modules). Full HD videos in real time. Only one duplex multimode fiber cable (LC) for USB and video. USB 2.0 transparent - in house development can be used in Matrix Switching System up to 48 endpoints. Automatic Plug & Play installation. DVI extension without loss of quality. Ultra compact up to 4 extenders in 19” 1RU Flexible DVI connector, freeze last image, <5ms latency time.

**Masterline dual in copper**

DUAL DVI-D/DVI-I USB 2.0 KVM Extender. Resolution 1920x1200@60 Hz. Max. Distance 150 m/492ft in copper. Full HD videos in real time. USB 2.0 transparent - in house development. USB save feature. Automatic Plug & Play installation. DVI extension without loss of quality Ultra compact up to 2 extenders in 19” 1RU, local (CPU) / Remote (CON) Monitor output, Firmware Flash Upgrade without cable, only two cables for USB and video, can be used in the Matrix Switching System up to 48 endpoints, freeze last image, <5ms latency time.

**Masterline dual in fiber**

DUAL DVI-D/DVI-I USB 2.0 KVM Extender. Resolution 1920x1200@60 Hz. Max. Distance 160km/99mi in Fiber Full HD videos in real time. USB 2.0 transparent - in house development. Only two duplex multimode fiber cables (LC) for USB and video. Can be used in the Matrix Switching System up to 48 endpoints. USB save feature, automatic Plug & Play installation, DVI extension without loss of quality, freeze last image, <5ms latency time.
**kvm-tec standards**

With the included switching upgrade, the MX Extender can be integrated into a matrix switching system up to 2000 endpoints in conjunction with a standard network switch. kvm-tec Switching Manager - switch up@work - the intelligent software enables convenient management and intuitive operation of KVM extenders in the switching system. A Windows PC or Tablet with network interface is required for commissioning and operating the software.

**Feature -** freeze last image, mouse glide & Switch
USB 2.0 in-house development, USB-Save feature, USB Emulation Mode & USB Sharing

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**MATRIXline**

**single in fiber**

DVI-I USB 2.0 KVM Extender

The highly optimized KVM Extender over IP has a range of 160km/99mi at a resolution of 1920x1200 @ 60 Hz and is available in fiber as single version. The perfect tuning of kvm-tec video compression with a low latency (<5ms) allows a delay-free transmission of the signals. USB and video is transmitted via one cable. DVI extension without loss of quality. Full HD videos can be transmitted in real time.

All upgrades such as USB memory, sound, RS232, analog VGA- as DVI transfer are already included. Ultra compact up to 4 extender in 19" RU. Local (CPU) / remote (CON) Monitor output.

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**MATRIXline**

**single in copper**

DVI-I USB 2.0 KVM Extender

The highly optimized KVM Extender over IP has a range of 150m/492ft at a resolution of 1920x1200@60 Hz and is available in copper as single version. The perfect tuning of kvm-tec video compression with a low latency time enables a delay-free (<5ms) transmission of the signals. USB and video is transmitted via CAT5e/6/7 cable. Due to the DVI extension Full HD videos can be transmitted in real time.

All upgrades such as USB memory, sound, RS232, analog VGA- as DVI transfer are already included. Automatic Plug & Play installation. DVI extension without loss of quality. Ultra compact up to 4 extenders in 19" 1RU. Local (CPU) / remote (CON) Monitor output.

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**kvm-tec Software feature**

**Mouse glide & Switch**

up to 16 screens can be operated and controlled with 1 mouse & 1 keyboard
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