4K ULTRA *line*

www.kvm-tec.com

4K Displayport Extender over IP

Max. resolution 4096 X 2160 @ 60 Hz

Max distance 100m/328ft in copper

4K videos in real time

USB 2.0 transparent - in house development

only one CAT 6a/7 cable USB and video

can be used in the Switching System up to 2000 endpoints

built in MST HUB Splitter

Downscaling - 4 K image on a Full HD monitor

It´s not only a solution - it´s a revolution. 4K Displayport 1.2 Extender over IP in copper with a range of 100m/328ft at a resolution of 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. The CPU (local) and the CON (remote) part have two local video outputs, splitter function with 4 K or Multistream support at a resolution up to 2560 x 1600/60Hz, the built-in MST Hub/Splitter allows the transmission of two different image contents via one cable up to a maximum resolution of 2560x1600/60Hz.

All upgrades such as USB memory, sound, RS232 are already included. With the included switching upgrade up to 2000 endpoints, the 4K ULTRALINE DP 1.2 Extender can be integrated into a Matrix Switching system in conjunction 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 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.

.... smart connection

USB save feature

Automatic Plug & Play installation

DP 1.2 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

USB transfer rate max 480 Mbit/s

19" rack mountable

Warranty 2 years, warranty extension to 5 years possible

FUTURE
4
kvm-tec
High Performance KVM Systems

kvm-tec Softwarefeature

4K Multiview Commander

for 4 PC contents can be controlled and operated on one 4K monitor

Mouse glide &switch

up to 16 monitors can be operated with 1 mouse & 1 keyboard

4K Ultraline
Part No.: 6901

KVM can be so simple
Let´s connect!
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6901L Local CPU unit

6901R Remote CON unit

CONNECT kvm-tec Extender in Matrix Switching Systems and you can go up to 2000 endpoints and have a super fast switching. You can connect a wide range of different sources (servers, operator workstation,PC, surveillance camers, video walls and much more) and operate & control the system with centralized management

- Network Environemt; 1 or 10 Gbit bandwith
- IGMP Snooping (for videosharing)

COLLABORATE with standard network components. kvm-tec Extender are compatible with standard network components and all kvm-tec Extender can collaborate in real time with 60Hz in full HD or 4K resolution

COMMUNICATE in your Switching System with our kvm-tec Switching Manager Software. The local and remote Extender are arranged in an optimized way and the Extender status is highlighted in color. With the kvm-tec Systems computers and servers can be located away from work desk into central server room for a high security level. The environment heat and noise are reduced at the work station and an ergonomic and quiet workplace for all users is possible

CONTROL your application in a much better way with all our in-house developments, like USB 2.0 transmission, video compression without latency, only one cable for USB and video transmission ,zero latency. With our unique features each user can access multiple PC sources and can control and operate up to 16 screens with one mouse & keyboard. Video sharing can be done seamless and a central video wall can be integrated for sharing all informations in real time

$kvm\text{-}tec = C^4$
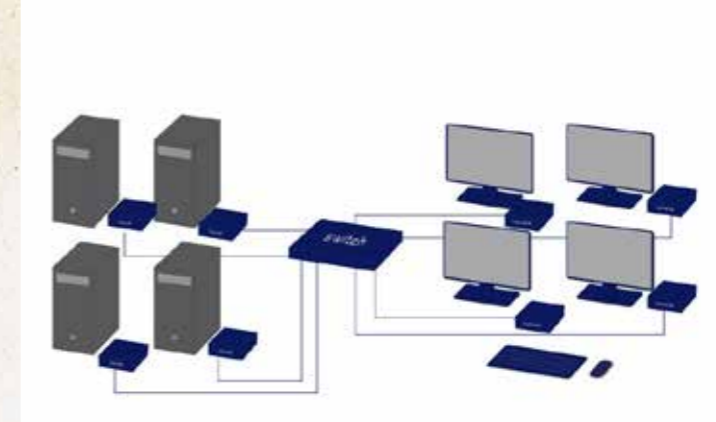
connect   collaborate   communicate   control

SOFTWARE - FEATURES ULTRALINE

MOUSE GLIDE & SWITCH

Mouse Glide & Switch - operated via the switching manager and with only one mouse and one keyboard several PCs can be operated from one workstation. The arrangement of up to 16 monitors can be horizontal or vertical and is comparable to a virtual desktop wall and can be operated via the Switching Manager.
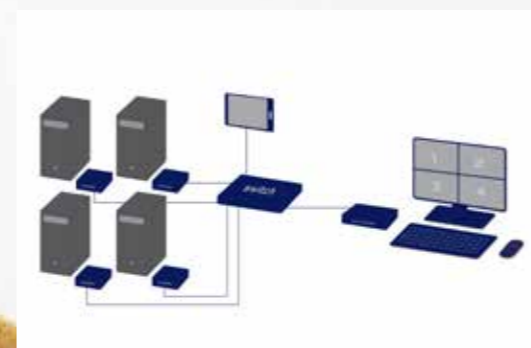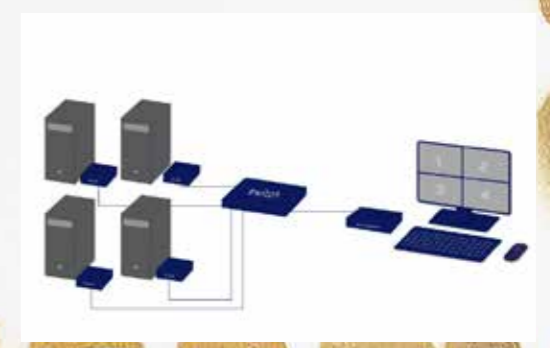
4K MULTIVIEW COMMANDER

The 4K Multiview Commander is an additional feature for the 4K KVM Extender. This feature allows video signals from different PCs to be displayed simultaneously on only one 4K screen. With the kvm-tec innovation, the PCs can also be controlled and operated via the kvm-tec transparent USB 2.0 transfer. This feature is unique worldwide. Thanks to the skillful management of USB transmission, kvm-tec has succeeded in making every screen content individually usable. Depending on the mouse position, the USB signals can be routed to the corresponding PC to make the screen content usable. With the 4K Multiview Commander, up to 4 different PCs can be controlled and operated with one 4K monitor, depending on the resolution. Also with different operating systems. This 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. Operation System independent e.g. Linux/ Windows

from remote (CON) up to 120km/74mi, compatible with standard networks, zoom-function - each part of the screen can therefore be enlarged as a full screen, for easier operation, a red frame for orientation is displayed when changing screens

4K Multiview Commander with Switching Manager (Software Switching Manager included)

4K Multiview Commander stand alone

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Part No.: 6901

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Switching Manager Software

The intelligent software solution from kvm-tec for managing all KVM extenders connected in a matrix switching system up to 2000 endpoints. The local and remote parts can be connected or disconnected by touch or mouse click. For a quick overview, the extenders are arranged in an optimized way and the status of the extenders is highlighted in color.
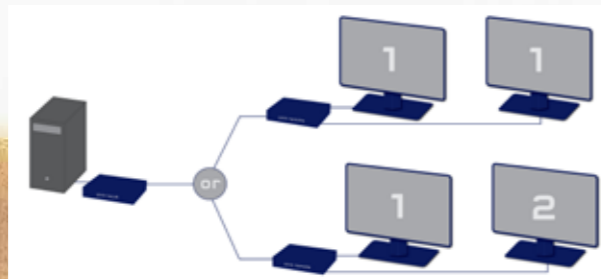
- Easy Login and Logout (ADMIN&USER)
- Intuitive control through coloured stored extender status
- GRID and TREEVIEW Layout
- Flexible renaming of extenders in the system
- Icons for control, disconnect and connection and sharing
- Extender Binding
- Search box
- stores up to 5 various scenarios
- display of the USER sessions
- update management for all extenders in the switching system
- Extender setting definition
- Multihead groups and static partner
- Mouse glide&switch
- 4K Multiview Commander Management
- super fast live Preview
- Capturing - 4K uncompressed Screen shot
- displays & Update the current firmware version in the Switching System
- Network Environment 10Gigabit bandwith: IGMP Snooping

switching system

HARDWARE - FEATURE 4K ULTRALINE

BUILT-IN MST HUB

The built-in MST/HUB splitter allows the transmission of two different image contents via one cable up to a max. resolution of 2560 x 1600@60Hz. The CPU (local) and the CON (remote) part has two video outputs with splitter / multistream function. With a 4k resolution @60Hz one screen content is transmitted which is available on both outputs at the same time With a resolution up to 2560 x 1600@60Hz two different picture contents can be transferred to the monitors.
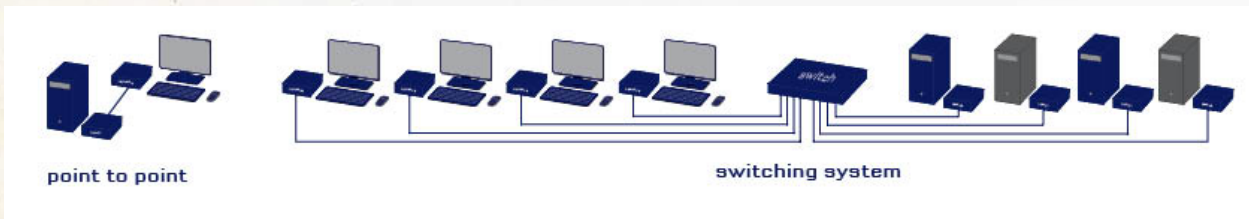
Technical Specifications

Interfaces		UVX Local/CPU	UVX Remote/CON
Interfaces	Video	1 x DP 1.2 in (no HCDP) 2 x DP1.2 out	2 x DP 1.2 out
	USB 2.0	1 x USB-B to PC	4 x USB-A (devices)
	Audio	1 x 3,5mm jack plug (Line In) 1 x 3,5mm jack plug (Line out)	1 x 3,5mm jack plug (Line In) 1 x 3,5mm jack plug (Speaker)
	RS232	1x D-Sub9 -connector (female)	1x D-Sub Buchse (male)
	AUX	1x RJ45 1GBit	1x RJ45 1GBit
Video	Signal type Resolution (digital) Colour mode Pixel Coding	DP 1.2 max. 4096 x 2160 @ 60Hz 24bit 4:4:4	DP 1.2 max. 4096 x 2160 @ 60Hz 24bit 4:4:4
Audio Analog	Type Bandwith	analog 16bit, 44kHz, 2ch	analog 16bit, 44kHz, 2ch
Audio embedded Displayport Digital	Type Bandwith	digital 16bit, 44kHz, 2ch	digital 16bit, 44kHz, 2ch
USB	Spezification Type Rate	USB 2.0 transparent max. 480 Mbit/s	USB 2.0 transparent max. 480 Mbit/s
RS232	Type Rate Signal	Transparent max. 230.400 bps TxD, RxD, DTR, CTS,	Transparent max. 230.400 bps TxD, RxD, DTR, CTS,
Casing	Material Dimension (W x H x D) Weight Shipment weight SET 2,30kg / 5,07lb	anodized aluminum 218 x 43 x 105 mm/ 8.58 x 1.69 x 4.14inch 676g/ 1.49 lb	anodized aluminum 218 x 43 x 105 mm/8,58 x 1,69 x 4,14 inch 707g/1,55 lb
power supply	Type	internal power supply AC 90-240V/60-50Hz IEC plug (IEC-320 C14)	internal power supply AC 90-240V/60-50Hz IEC plug (IEC-320 C14)
Redundant power supply	Type	12 VDC 2A (optional)	12 VDC 2 A (optional)
Power input	Operation	15W	15W without USB devices
Operation environment	Temperature Humidity	0 to +45 °C (32 bis 113 °F) < 80%, non condensing	0 to +45 °C (32 to 113 °F) < 80%, non condensing
Storage environment	Temperature Humidity	-25 to 80 °C (-13 to 176 °F) < 80%, non condensing	-25 to 80 °C (-13 to 176 °F) < 80%, non condensing
Cooling		free air convection	free air convection
MTBF		82.820 calculated hours ca. 10 years	82.820 calculated hours ca. 10 years
Conformity		CE, FCC	CE, FCC
Warranty		2 years (5 Jyears opt.)	2 years (5 years opt.)
Delivery content	Device	1x UVX1 Local (CPU)	1x UVX1 Remote (CON)
	Power supply	1x power cord IEC C13 1x DP - DP cable 1,8m/5,9ft	1x power cord IEC C13
	Cable	1x USB A-B cable 1,8m/5,9 ft	
	Mounting	4 x rubber feet	4 x rubber feet
	Manual	Quickinstallation Manual Download www.kvm-tec.com /support	

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Let´s connect!

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Part Number & short description

Part No	Order Nr	short description
6901 **6901L** **6901R**	UVX1 UVX1-L UVX1-R	Ultraline 4K Extender Single Set UPC 051497031756 Ultraline 4K Extender Single Local Unit (CPU) UPC 051497031664 Ultraline 4K Extender Single Remote Unit (CON) UPC051497031671
4003	KVM-SM480	The intelligent software - kvm-tec Switching Manager enables convenient and intuitive management of KVM extenders in the switching system.
9003 **9002** **Add on** **6230**	GV5JU GV5J RMK-F	Warranty extension to 5 years perUNIT Warranty extension to 5 years per SET Rack Mounting Kit with front panel for UVX *UPC 051497031725*

point to point

switching system

point to point max. distance 100m/328ft in copper

Switching System up to 2000 endpoints