

# DVI KVM Switches

# DVIMUX 7.2

## KVM Switches

Switches for the effective operation of multiple computers via one workstation



**Leading the way in digital KVM**



## Leading the Way in digital KVM

Guntermann & Drunck GmbH has been established in 1985 and is named after its founders. Over 25 years have since past, and we are now a leading manufacturer of digital and analog KVM switching systems.

As an owner-managed company we work with a broad range in both digital and analog KVM closely with the marketplace and make our decisions with and in the interests of our customers. It is our philosophy to meet our customers while making decisions, to accompany them in the process and ensure that they achieve their goals.

We can do this because as a medium sized company we have short communication paths and all core competencies are in house – from development through to production. This way we can even make the impossible possible at times. If it is thanks to the modularity of the products or by implementing a customised solution. We orient ourselves towards the needs of the customer – and not the other way round.

Organisations, service providers and companies of all sizes managing numerous computers, servers and other network devices trust the comprehensive advice and service provided by Guntermann & Drunck GmbH.

Thanks to these different fields of specialisation, the demands placed on the products are many and are manifold. Our products have to provide a long-life service, be secure, uncomplicated, user-friendly, understandable and adaptable.

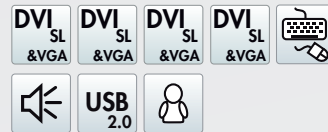
The KVM switches DVIMUX enable you to operate two, four or eight computers over one user console.

The DVIMUX switches the following signals:

- Keyboard/mouse
- Single-link DVI and VGA
- Audio
- USB 2.0

The devices are available as variants transmitting one, two, three, or four video channels.

A working system consists of a DVIMUX and the required computer connection cable sets.



DVIMUX4-MC3-USB - front view

## Highlights

### Video

- Mixed operation of DVI/VGA on input and output side
- E-DDC support
- Single- and multi-channel variants

### Signals

- Switches audio and transparent USB 2.0 signals

### Miscellaneous

- DVIMUX8 and DVIMUX8-MC2 also available with OSD and **broadcast function**
- External switching via RS232 (e.g. by using OperatorPanel)
- Suitable for all operating systems

## Features

### Video

- DVI resolution up to 1920 × 1200 @ 60 Hz
- VGA resolution up to 1920 × 1440 @ 75 Hz or 2k x 2k @ 60 Hz
- Video bandwidth single-link DVI: 165 Mbps
- Video bandwidth VGA up to 400 MHz
- Colour mode digital 24 bit or analog
- Internal power supply

### System upgrade

- Updates via flash upgrade at device

### Devices

- Only access the computer's standard interfaces
- No software installation required

- Available as desktop and 19" rack mount variant
- Internal power supply
- Housed in an aluminium housing for best interference resistance
- Hot-pluggable

### Broadcast function (DVIMUX8-OSD)

- After enabling the broadcast function, you can transmit keyboard and mouse signals to all eight channels. Now you can configure and operate all computers at the same time. Pressing the double hotkey **Print Scrn + Print Scrn** opens the OSD.

## Variants

### Design

- desktop or rackmount variant

### Video channels

- DVIMUX4 - single-channel, MC2, MC3, MC4
- DVIMUX8 - single-channel, MC2

## Expansion

The DVIMUX devices are fully equipped.  
Recently no expansions are available.

## Installation

Connect the computers to the back side of the device. Distinctive standard cables link keyboard, video, mouse, audio, and USB interfaces to the switch.

Cable length for PS/2 cable sets: 2 m, 5 m

Cable length for USB cable sets: 2 m, 5 m

For connecting the user console simply link keyboard,

monitor, mouse, speakers, and USB devices to the intended interfaces.

Feel free to download the DVIMUX manual to find out more details about the start-up.

DVIMUX manual is additionally included in the scope of supply.

# DVIMUX4



left: DVIMUX4-USB - front view  
 right: DVIMUX4-USB - rear view

	DVIMUX4-USB	DVIMUX4-PS/2
<b>Video</b>		
User console slots per unit	1	
Signal type/video	analog/digital video	
Analog resolution	up to 1920 × 1440 @ 75 Hz incl. 2k x 2k @ 60 Hz	
Digital resolution	btw. 640 × 480 @ 100 Hz and 1920 × 1200 @ 60 Hz	
Standards	E-DDC support	
Digital colour mode	24 bit	
Video sources per computer	1	
Computer connection	KVM cable set	
Computer channels	4	
Interfaces for user console	DVI-I socket	
Interfaces to computer	4 × (1 x DVI-I socket)	
<b>Keyboard/Mouse</b>		
Interfaces for user console		2 × Mini-DIN 6 socket
	2 × USB-A socket	
Interfaces to computer		4 × (2 × Mini-DIN 6 socket)
<b>Audio</b>		
Connection	analog	
Bandwidth	22 kHz	
Interfaces for user console	2 × 3.5 mm jack plug (line in + speaker)	1 × 3.5 mm jack plug (speaker)
Interfaces to computer	4 × (2 × 3.5 mm jack plug) (line in + line out)	4 × 3.5 mm jack plug (line in)
<b>Transparent USB 2.0</b>		
USB power supply	high power up to 500 mA	
USB transmission rate	up to 480 Mbps	
Transmission range	5 m	
Interfaces for user console	2 × USB-A socket	
Interfaces to computer	4 × USB-B socket(for both keyboard/mouse)	

Power supply		
Type	internal power pack	
Connection	1 × IEC plug	
Voltage	AC100-240V/60-50Hz	
	290-150mA	210-115mA
Casing		
Material	anodised aluminium	
Desktop (W × H × D)	270 × 44 × 210 mm	
Rack mount (W × H × D)	19" × 1 U × 210 mm	
Weight	approx. 1.5 kg	
Update		
Process	update-wizard via local service socket	
Connection	1 × 2.5 mm jack plug	
Operating conditions		
Temperature	+5 to +40 °C	
Air humidity	< 80% non-condensing	
Conformity	RoHs	

# DVIMUX4-MC2



left: DVIMUX4-MC2-PS/2 - front view  
 right: DVIMUX4-MC2-PS/2 - rear view

	DVIMUX4-MC2-USB	DVIMUX4-MC2-PS/2
<b>Video</b>		
User console slots per unit	1	
Signal type/video	analog/digital video	
Analog resolution	up to 1920 x 1440 @ 75 Hz incl. 2k x 2k @ 60 Hz	
Digital resolution	btw. 640 x 480 @ 100 Hz and 1920 x 1200 @ 60 Hz	
Standards	E-DDC support	
Digital colour mode	24 bit	
Video sources per computer	2	
Computer connection	KVM cable set	
Computer channels	4	
Interfaces for user console	2 x DVI-I socket	
Interfaces to computer	4 x (2 x DVI-I socket)	
<b>Keyboard/Mouse</b>		
Interfaces for user console		2 x Mini-DIN 6 socket
	2 x USB-A socket	
Interfaces to computer		4 x (2 x Mini-DIN 6 socket)
<b>Audio</b>		
Connection	analog	
Bandwidth	22 kHz	
Interfaces for user console	2 x 3.5 mm jack plug (line in + speaker)	1 x 3.5 mm jack plug (speaker)
Interfaces to computer	4 x (2 x 3.5 mm jack plug) (line in + line out)	4 x 3.5 mm jack plug (line in)
<b>Transparent USB 2.0</b>		
USB power supply	high power up to 500 mA	
USB transmission rate	up to 480 Mbps	
Transmission range	5 m	
Interfaces for user console	2 x USB-A socket	
Interfaces to computer	4 x USB-B socket(for both keyboard/mouse)	

Power supply		
Type	internal power pack	
Connection	1 × IEC plug	
Voltage	AC100-240V/60-50Hz	
	400-200mA	310-155mA
Casing		
Material	anodised aluminium	
Desktop (W × H × D)	270 × 66 × 210 mm	
Rackmount (W × H × D)	19" × 1.5 U × 210 mm	
Weight	approx. 1.7 kg	
Update		
Process	update-wizard via local service socket	
Connection	1 × 2.5 mm jack plug	
Operating conditions		
Temperature	+5 to +40 °C	
Air humidity	< 80% non-condensing	
Conformity	RoHs	



# DVIMUX4-MC3



left: DVIMUX4-MC3-USB - front view  
 right: DVIMUX4-MC3-USB - rear view

	DVIMUX4-MC3-USB	DVIMUX4-MC3-PS/2
<b>Video</b>		
User console slots per unit	1	
Signal type/video	analog/digital video	
Analog resolution	up to 1920 × 1440 @ 75 Hz incl. 2k x 2k @ 60 Hz	
Digital resolution	btw. 640 × 480 @ 100 Hz and 1920 × 1200 @ 60 Hz	
Standards	E-DDC support	
Digital colour mode	24 bit	
Video sources per computer	3	
Computer connection	KVM cable set	
Computer channels	4	
Interfaces for user console	3 × DVI-I socket	
Interfaces to computer	4 × (3 × DVI-I socket)	
<b>Keyboard/Mouse</b>		
Interfaces for user console		2 × Mini-DIN 6 socket
	2 × USB-A socket	
Interfaces to computer		4 × (2 × Mini-DIN 6 socket)
<b>Audio</b>		
Connection	analog	
Bandwidth	22 kHz	
Interfaces for user console	2 × 3.5 mm jack plug (line in + speaker)	1 × 3.5 mm jack plug (speaker)
Interfaces to computer	4 × (2 × 3.5 mm jack plug) (line in + line out)	4 × 3.5 mm jack plug (line in)
<b>Transparent USB 2.0</b>		
USB power supply	high power up to 500 mA	
USB transmission rate	up to 480 Mbps	
Transmission range	5 m	
Interfaces for user console	2 × USB-A socket	
Interfaces to computer	4 × USB-B socket (for both keyboard/mouse)	

Power supply		
Type	internal power pack	
Connection	1 × IEC plug	
Voltage	AC100-240V/60-50Hz	
	500-220mA	410-190mA
Casing		
Material	anodised aluminium	
Desktop (W × H × D)	270 × 88 × 210 mm	
Rackmount (W × H × D)	19" × 2 U × 210 mm	
Weight	approx. 2.1 kg	
Update		
Process	update-wizard via local service socket	
Connection	1 × 2.5 mm jack plug	
Operating conditions		
Temperature	+5 to +40 °C	
Air humidity	< 80% non-condensing	
Conformity	RoHs	

# DVIMUX4-MC4



left: DVIMUX4-MC4-USB - front view  
 right: DVIMUX4-MC4-USB - rear view

	DVIMUX4-MC4-USB	DVIMUX4-MC4-PS/2
<b>Video</b>		
User console slots per unit	1	
Signal type/video	analog/digital video	
Analog resolution	up to 1920 × 1440 @ 75 Hz incl. 2k x 2k @ 60 Hz	
Digital resolution	btw. 640 × 480 @ 100 Hz and 1920 × 1200 @ 60 Hz	
Standards	E-DDC support	
Digital colour mode	24 bit	
Video sources per computer	4	
Computer connection	KVM cable set	
Computer channels	4	
Interfaces for user console	4 × DVI-I socket	
Interfaces to computer	4 × (4 × DVI-I socket)	
<b>Keyboard/Mouse</b>		
Interfaces for user console		2 × Mini-DIN 6 socket
	2 × USB-A socket	
Interfaces to computer		4 × (2 × Mini-DIN 6 socket)
<b>Audio</b>		
Connection	analog	
Bandwidth	22 kHz	
Interfaces for user console	2 × 3.5 mm jack plug (line in + speaker)	1 × 3.5 mm jack plug (speaker)
Interfaces to computer	4 × (2 × 3.5 mm jack plug) (line in + line out)	4 × 3.5 mm jack plug (line in)
<b>Transparent USB 2.0</b>		
USB power supply	high power up to 500 mA	
USB transmission rate	up to 480 Mbps	
Transmission range	5 m	
Interfaces for user console	2 × USB-A socket	
Interfaces to computer	4 × USB-B socket(for both keyboard/mouse)	

Power supply		
Type	internal power pack	
Connection	1 × IEC plug	
Voltage	AC100-240V/60-50Hz	
	580-260mA	530-230mA
Casing		
Material	anodised aluminium	
Desktop (W × H × D)	270 × 132 × 210 mm	
Rackmount (W × H × D)	19" × 3 U × 210 mm	
Weight	approx. 2.5 kg	
Update		
Process	update-wizard via local service socket	
Connection	1 × 2.5 mm jack plug	
Operating conditions		
Temperature	+5 to +40 °C	
Air humidity	< 80% non-condensing	
Conformity	RoHs	

# DVIMUX8



left: DVIMUX8-PS/2 - front view  
 right: DVIMUX8-PS/2 - rear view

<b>DVIMUX8-PS/2</b>		
<b>Video</b>		
User console slots per unit	1	
Signal type/video	analog/digital video	
Analog resolution	up to 1920 × 1440 @ 75 Hz incl. 2k x 2k @ 60 Hz	
Digital resolution	btw. 640 × 480 @ 100 Hz and 1920 × 1200 @ 60 Hz	
Standards	E-DDC support	
Digital colour mode	24 bit	
Video sources per computer	1	
Computer connection	KVM cable set	
Computer channels	8	
Interfaces for user console	DVI-I socket	
Interfaces to computer	8 × (1 x DVI-I socket)	
<b>Keyboard/Mouse</b>		
Interfaces for user console	2 × Mini-DIN 6 socket	
	2 × USB-A socket	
Interfaces to computer	8 × (2 × Mini-DIN 6 socket)	
<b>Audio</b>		
Connection	analog	
Bandwidth	22 kHz	
Interfaces for user console	2 × 3.5 mm jack plug (line in + speaker)	1 × 3.5 mm jack plug (speaker)
Interfaces to computer	8 × (2 × 3.5 mm jack plug) (line in + line out)	8 × 3.5 mm jack plug (line in)
<b>Transparent USB 2.0</b>		
USB power supply	high power up to 500 mA	
USB transmission rate	up to 480 Mbps	
Transmission range	5 m	
Interfaces for user console	2 × USB-A socket	
Interfaces to computer	8 × USB-B socket(both for keyboard/mouse)	

Power supply	
Type	internal power pack
Connection	1 × IEC plug
Voltage	AC100-240V/60-50Hz
	180-100mA
Casing	
Material	anodised aluminium
Desktop (W × H × D)	435 × 44 × 210 mm
Rackmount (W × H × D)	19" × 1 U × 210 mm
Weight	approx. 2.2 kg
Update	
Process	update-wizard via local service socket
Connection	1 × 2.5 mm jack plug
Operating conditions	
Temperature	+5 to +40 °C
Air humidity	< 80% non-condensing
Conformity	RoHs

# DVIMUX8-MC2



left: DVIMUX8-MC2-PS/2 - front view  
 right: DVIMUX8-MC2-PS/2 - rear view

<b>DVIMUX8-MC2-PS/2</b>		
<b>Video</b>		
User console slots per unit	1	
Signal type/video	analog/digital video	
Analog resolution	up to 1920 × 1440 @ 75 Hz incl. 2k x 2k @ 60 Hz	
Digital resolution	btw. 640 × 480 @ 100 Hz and 1920 × 1200 @ 60 Hz	
Standards	E-DDC support	
Digital colour mode	24 bit	
Video sources per computer	2	
Computer connection	KVM cable set	
Computer channels	8	
Interfaces for user console	2 × DVI-I socket	
Interfaces to computer	8 × (2 × DVI-I socket)	
<b>Keyboard/Mouse</b>		
Interfaces for user console	2 × Mini-DIN 6 socket	
	2 × USB-A socket	
Interfaces to computer	8 × (2 × Mini-DIN 6 socket)	
<b>Audio</b>		
Connection	analog	
Bandwidth	22 kHz	
Interfaces for user console	2 × 3.5 mm jack plug (line in + speaker)	1 × 3.5 mm jack plug (speaker)
Interfaces to computer	8 × (2 × 3.5 mm jack plug) (line in + line out)	8 × 3.5 mm jack plug) (line in)
<b>Power supply</b>		
Type	internal power pack	
Connection	1 × IEC plug	
Voltage	AC100-240V/60-50Hz	
	300-140mA	

Casing	
Material	anodised aluminium
Desktop (W × H × D)	435 × 66 × 210 mm
Rackmount (W × H × D)	19" × 1.5 U × 210 mm
Weight	approx. 2.7 kg
Update	
Process	update-wizard via local service socket
Connection	1 × 2.5 mm socket
Operating conditions	
Temperature	+5 to +40 °C
Air humidity	< 80% non-condensing
Conformity	RoHs





left: DVIMUX8-OSD-USB - front view  
 right: DVIMUX8-OSD-USB - rear view



	DVIMUX8-OSD-USB	DVIMUX8-OSD-PS/2
<b>Video</b>		
User console slots per unit	1	
Signal type/video	analog/digital video	
Analog resolution	up to 1920 × 1440 @ 75 Hz incl. 2k × 2k @ 60 Hz	
Digital resolution	btw. 640 × 480 @ 100 Hz and 1920 × 1200 @ 60 Hz	
Standards	E-DDC support	
Digital colour mode	24 bit	
Video sources per computer	1	
Computer connection	KVM cable set	
Computer channels	8	
Interfaces for user console	1 × DVI-I socket	
Interfaces to computer	8 × (1 × DVI-I socket)	
<b>Keyboard/Mouse</b>		
Interfaces for user console		2 × Mini-DIN 6 socket
	2 × USB-A socket	
Interfaces to computer		8 × (2 × Mini-DIN 6 socket)
<b>Audio</b>		
Connection	analog	
Bandwidth	22 kHz	
Interfaces for user console	2 × 3.5 mm jack plug (line in + speaker)	1 × 3.5 mm jack plug (speaker)
Interfaces to computer	8 × (2 × 3.5 mm jack plug) (line in + line out)	8 × 3.5 mm jack plug (line in)
<b>Transparent USB 2.0</b>		
USB power supply	high power up to 500 mA	
USB transmission rate	up to 480 Mbps	
Transmission range	5 m	
Interfaces for user console	2 × USB-A socket	
Interfaces to computer	8 × USB-B socket(both for keyboard/mouse)	

Power supply		
Type	internal power pack	
Connection	1 × IEC plug	
Voltage	AC100-240V/60-50Hz	
	270-130mA	180-100mA
Casing		
Material	anodised aluminium	
Desktop (W × H × D)	435 × 44 × 210 mm	
Rackmount (W × H × D)	19" × 1 U × 210 mm	
Weight	approx. 2.2 kg	
Update		
Process	over network	
Connection	over network port	
Operating conditions		
Temperature	+5 to +40 °C	
Air humidity	< 80% non-condensing	
Conformity	RoHs	



left: DVIMUX8-OSD-MC2-USB - front view  
right: DVIMUX8-OSD-MC2-USB - rear view



	DVIMUX8-OSD-MC2-USB	DVIMUX8-OSD-MC2-PS/2
<b>Video</b>		
User console slots per unit	1	
Signal type/video	analog/digital video	
Analog resolution	up to 1920 × 1440 @ 75 Hz incl. 2k x 2k @ 60 Hz	
Digital resolution	btw. 640 × 480 @ 100 Hz and 1920 × 1200 @ 60 Hz	
Standards	E-DDC support	
Digital colour mode	24 bit	
Video sources per computer	2	
Computer connection	KVM cable set	
Computer channels	8	
Interfaces for user console	2 × DVI-I socket	
Interfaces to computer	8 × (2 × DVI-I socket)	
<b>Keyboard/Mouse</b>		
Interfaces for user console		2 × Mini-DIN 6 socket
	2 × USB-A socket	
Interfaces to computer		8 × (2 × Mini-DIN 6 socket)
<b>Audio</b>		
Connection	analog	
Bandwidth	22 kHz	
Interfaces for user console	2 × 3.5 mm jack plug (line in + speaker)	2 × 3.5 mm jack plug (speaker)
Interfaces to computer	8 × (2 × 3.5 mm jack plug) (line in + line out)	8 × 3.5 mm jack plug (line in)
<b>Transparent USB 2.0</b>		
USB power supply	high power up to 500 mA	
USB transmission rate	up to 480 Mbps	
Transmission range	5 m	
Interfaces for user console	2 × USB-A socket	
Interfaces to computer	8 × USB-B socket (both for keyboard/mouse)	

<b>Power supply</b>	
Type	internal power pack
Connection	1 x IEC plug
Voltage	AC100-240V/60-50Hz
	410-170mA
	300-140mA
<b>Casing</b>	
Material	anodised aluminium
Desktop (W x H x D)	435 x 66 x 210 mm
Rackmount (W x H x D)	19" x 1.5 U x 210 mm
Weight	approx. 2.7 kg
<b>Update</b>	
Process	over network
Connection	over network port
<b>Operating conditions</b>	
Temperature	+5 to +40 °C
Air humidity	< 80% non-condensing
Conformity	RoHs

## List of Item Numbers Single-Channel

Item No.	Description	CPU	PS/2	U2	DT	RM
A2100053	DVIMUX4-PS/2	4	PS/2		DT	
A2100054	DVIMUX4-PS/2-RM	4	PS/2			RM
A2100055	DVIMUX4-USB	4		U2	DT	
A2100056	DVIMUX4-USB-RM	4		U2		RM
A2100082	DVIMUX8-PS/2	8	PS/2		DT	RM
A2100121	DVIMUX8-OSD-PS/2	8	PS/2		DT	RM
A2100120	DVIMUX8-OSD-USB	8		U2	DT	RM

## List of Item Numbers Multi-Channel

Item No.	Description	CPU	PS/2	U2	DT	RM
A2100061	DVIMUX4-MC2-PS/2	4	PS/2		DT	
A2100062	DVIMUX4-MC2-PS/2-RM	4	PS/2			RM
A2100063	DVIMUX4-MC2-USB	4		U2	DT	
A2100064	DVIMUX4-MC2-USB-RM	4		U2		RM
A2100065	DVIMUX4-MC3-PS/2	4	PS/2		DT	
A2100066	DVIMUX4-MC3-PS/2-RM	4	PS/2			RM
A2100067	DVIMUX4-MC3-USB	4		U2	DT	
A2100068	DVIMUX4-MC3-USB-RM	4		U2		RM
A2100069	DVIMUX4-MC4-PS/2	4	PS/2		DT	
A2100070	DVIMUX4-MC4-PS/2-RM	4	PS/2			RM
A2100071	DVIMUX4-MC4-USB	4		U2	DT	
A2100072	DVIMUX4-MC4-USB-RM	4		U2		RM
A2100086	DVIMUX8-MC2-PS/2	8	PS/2		DT	
A2100126	DVIMUX8-OSD-MC2-USB	8		U2	DT	
A2100127	DVIMUX8-OSD-MC2-PS/2	8	PS/2		DT	

## Legend

### ABBREVIATIONS

CPU = Computer module  
PC = Computer module

CON = User module  
REM = User module

MC2 = Multichannel 2  
MC3 = Multichannel 3  
MC4 = Multichannel 4

M = Multimode  
S = Singlemode  
RM = For assembly in a 19" rack  
DT = Available as desktop variant  
A = Audio  
AR = Audio + RS232  
R = RS232  
U = transparent USB 1.1  
U2 = transparent USB 2.0  
D = Delay

### EQUIPMENT FEATURES



= keyboard/mouse



= dual-link DVI video



= single-link DVI video



= single-link DVI + VGA



= VGA video



= Audio



= RS232



= USB 1.1



= USB 2.0



= Delay



= Screen Freeze



= Power Switching



= Fire Wire



= VT100



= KVM IP access



= Network connection



= Web interface



= DevCon support



= Monitoring



= CAT cable



= Fiber optics



= Single user



= Multi user



= Separat local/remote user