



- ▶ Access and control four multi-head computers
- ▶ Resolutions up to 3840 x 2160 @ 30 Hz
- ▶ Output port can be DisplayPort or HDMI
- ▶ Switch using front panel buttons, keyboard hot keys, or RS-232 commands
- ▶ Supports all USB 1.1 or USB 2.0 devices
- ▶ Supports analog audio

Features and Benefits

- Quad-head or dual-head video input
- Output video can be DisplayPort or HDMI
- Resolutions up to 3840 x 2160 @ 30 Hz
- DisplayPort 1.1a compliant
- Full USB keyboard and mouse emulation to all computers provides switching without interruption
- Independent switching of KVM, peripheral USB devices, and audio
- Unit can be controlled using front panel push buttons, keyboard hot key commands, or RS-232 commands from an external controller
- Front panel LEDs indicate the active computer connection
- Can be used with any major operating system: Windows, Linux, MAC OS
- EDID pass-through enables smooth and efficient switching
- Mounts in a standard 19 inch rack

Product Overview

The MultiVideo DP dual-head or quad-head switch can be used in any application where an operator requires access to up to four multi-head DisplayPort video sources. It can be used for digital signage, audio-visual presentations, control rooms, education, and many other applications.

MultiVideo DP supports video resolutions up to 3840 x 2160 @ 30Hz. Switching computers can be accomplished by pressing buttons on the front panel, or by issuing keyboard hot keys or RS232 commands. The front panel LEDs indicate the port number of the currently selected computer.

Keyboard and mouse uses emulation to provide the best possible switching experience. USB 2.0 devices are passed through directly without emulation at high speed. Stereo analog audio is also switched without any adulteration of the signal. The USB 2.0 devices or the audio can be switched separately from the video. Video, keyboard, and mouse are always switches together.

Monitor EDID is passed to video sources to ensure optimum output resolution and smooth switching.

Typical Application



Installation Installing the MultiVideo DP is just a matter of connecting the cables.

1. Video is connected to computers with DisplayPort male-to-male cables. Displays connect with either DisplayPort or HDMI one-to-one cables according to the product model.
2. Computer USB connects to computers with standard USB A-B cables.
3. USB keyboard and mouse connect to dedicated ports on the switch. USB 2.0 devices such as printers or scanners also connect directly to the unit.
4. You can use audio over DisplayPort or connect analog audio with standard 3.5mm cables.
5. The power adapter goes to the DC barrel jack.
6. Optionally connect a RS232 male-female cable to a PC or other device for external control.

The unit can be rack mounted in a 19" rack if so desired.

Operation To switch all devices (KVM, USB 2.0, and audio), the keyboard hot-key sequence is: Ctrl key twice, followed by m, then the port number 1-4, and finally Enter. Other similar sequences can be used to switch only KVM, only USB2.0, or only audio. You can also use a command or front panel switches to go to the next or previous port.

Specifications

Dimensions (W x D x H)	Dual-Head: 12" x 6" x 1.75" 305 x 153 x 45 mm Quad-Head: 12" x 6" x 3.5" 305 x 153 x 89 mm
Weight	Dual-Head: 3.5 lb (1.59 kg) Quad-Head: 4 lb (1.82 kg)
Power	External adapter, 100-240 VAC, 5VDC, 4A, 20W
Max. resolution	3840 x 2160 @ 30Hz (DP 1.1a)
Bandwidth	10.8 Gbps
Distance	20 feet (6.0m) each side
Function:	Connector:
Video in	8 x (dual) / 16 x (quad) DP female
Video out (DP)	2 x (dual) / 4 (quad) DP female
Video out (HDMI)	2 x (dual) / 4 (quad) HDMI female
USB 2.0/1.1 host	4 x USB Type B receptacle
USB2.0/1.1 device	2 x USB Type A receptacle 2 x USB Type A receptacle
Keyboard/mouse	5 x 3.5mm stereo jack
Audio in/out	1 x DB9 female
Serial RS232	1 x 5V DC barrel jack
Power	
Controls and status	Port selection by: 2 x front panel push-button Keyboard hotkey sequence Serial port data commands Green LEDs 1-4: Port select status
RS-232	9600 baud
Environment	Operating temp: 23°F – 95°F (-5°C – 35°C) Storage temp: -4°F – 185°F (-20°C – 85°C) Rel. humidity: 5% – 95%, non-condensing
Rack mount	Rack mount kit for 19" rack provided
Approvals	UL, CE, RoHS compliant

Part numbers

MDM-4T2DP-A1	1X4 KVM Switch, Dual-head, DP output
MDM-4T4DP-A1	1X4 KVM Switch, Quad-head, DP output
MDM-4T2DPH-A1	1X4 KVM Switch, Dual-head, HDMI out
MDM-4T4DPH-A1	1X4 KVM Switch, Quad-head, HDMI out

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