

# UHDN-4PDuo

4-Port Dual Head Ultra 4K-60Hz KVM Switch



**Touchboards**

205 Westwood Ave, Long Branch, NJ 07740  
Phone: 866-94 BOARDS (26273) / (732)-222-1511  
Fax: (732)-222-7088 | E-mail: [sales@touchboards.com](mailto:sales@touchboards.com)

4-Port Dual Head HDMI (4K/60Hz) Ultra-HD KVM switch  
with USB 2.0 and audio support.

## FEATURES

- Supports up to Ultra-HD 4K (3840x2160) @ 30/50/60Hz.
- Supports 3D.
- Supports LPCM, Dolby-AC3, DTS7.1, and DSD/Dolby TrueHD/DTS-HD master audio.
- Supports HDMI 1.3, 1.4, & 2.0.
- HDMI and HDCP compliant.
- Control up to four dual head computers with a single KVM.
- Full EDID HDMI video emulation.
- Zero pixel loss with TMDS signal correction.
- Supports USB Keyboard-Mouse emulation.
- Supports all USB 2.0 devices.
- Optionally rack mountable.
- Hot key commands for quick channel selection.
- Independent (asynchronous) switching of KVM and peripheral USB ports. Users can scan a document and save in another computer.
- Complete KVM emulation for error free booting.
- Easy switching via front-panel, RS-232 or hot keys.
- Full HDMI support, backwards compatibility.



## OVERVIEW

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UHDN-4P-Duo is a multi-platform KVM switch capable of managing four dual-head 4K computers through a single KVM. Built with ultra-HD ready HDMI outputs, the UHDN-4P-Duo is the first dual-head HDMI KVM switch on the market to offer full 4K at 60Hz directly from the device. Until now, HDMI switches lost emulated picture when disconnected from monitors, leading to confusion and disorganization upon reconnecting. With UHDN-4P-Duo, full EDID-assisted HDMI video emulation ensures visual workspaces and screen resolutions are remembered every time: simple!

The UHDN-4PDuo is HDCP compliant, supporting screen resolutions up to 4K Ultra-HD (3840x2160 @ 60Hz) with responsive EDID emulation. Additionally, the UHDN-4PDuo is USB peripheral-friendly, compatible with printers, keyboards, and mice. The UHDN-4P-Duo is also easy to control with both a simple front-panel interface, as well as RS-232 or hot-keys.

### SOURCE SWITCHING MADE EASY

The UHDN-4P-Duo offers simplified management between four dual-head HDMI equipped computers' USB 2.0 outputs. Keyboards, mice, and other connected USB devices can be switched between with ease. This dynamic KVM switch can be controlled via hot keys or RS-232 commands, as well as directly through the console's easy-to-read front panel.

### EDID PASS-THROUGH AND RECOGNITION

The UHDN-4P-Duo features EDID Pass-Through technology and source recognition, which enables smooth and efficient switching in virtually any scenario. This plug-and-play EDID functionality makes set up hassle free and simple.

### FULL USB KEYBOARD AND MOUSE EMULATION

The USB keyboard and mouse emulation utilized by UHDN-4P-Duo provides quick source switching via keyboard hot keys. UHDN-4P-Duo simulates the presence of a keyboard and mouse for every attached computer. This essential function simulates keyboard and mouse control for all connected computers, so switching between each is kept seamless and completely uninterrupted.

## REAL-WORLD APPLICATIONS

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The UHDN-4P-Duo has a broad range of applications, but the main function is to centralize the access of up to four computers with HDMI displays. Not only does it function as a KVM console, but it also supports USB 2.0 functionality. This allows users to access nearby USB devices, including those not supported by other KVM switches. The UHDN-4P-Duo is the ideal solution for medical, industrial, studio and defense applications, where it is not practical or safe to have multiple CPUs in the vicinity of the workstation.

- Server Hubs
- Retail Spaces
- Educational Facilities
- Airports
- Dealer Rooms
- Hospitals/Medical Care
- Control Rooms
- Audio/Visual Presentation Spaces
- Restaurants and Eateries
- Hotels/Resorts

## FLEXIBLE CONTROL

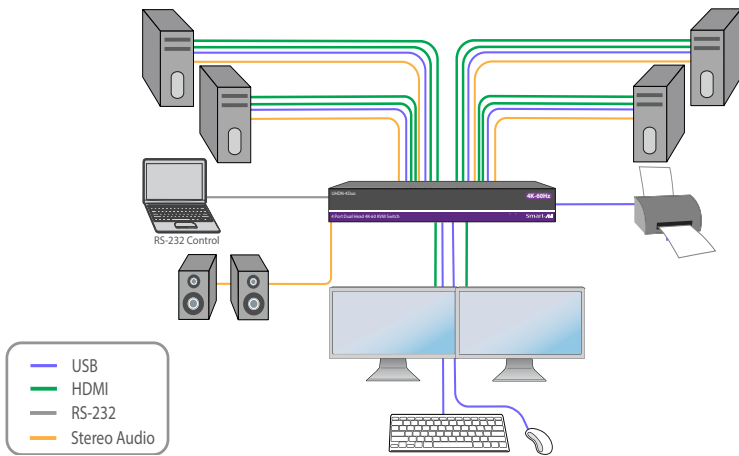
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**USB/KEYBOARD:** Hot keys enable the user to switch and control all the different functions of the KVM switch.

**RS-232:** Any external device or program supporting RS-232 can control the UHDN-4P-Duo. The UHDN-4P-Duo uses a very simple protocol that enables easy integration with other devices.

## DIAGRAM

### Smart-AVI UHDN-4P-DUO



UHDN-4P-Duo Front



UHDN-4P-Duo Rear

## SPECIFICATIONS

VIDEO		USB	
Link Rate	5.4 Gbps/lane	Signal Type	USB 2.0, 1.1, and 1.0 w/ internal hub
Input Interface	(8) HDMI (female) Version 1.4	Input Interface	(4) USB Type B (female)
Output Interface	(2) HDMI (female) Version 1.4	Device Input Interface	(2) USB 1.1 Type A (female) for keyboard-mouse
Resolution	480i to 4Kx2K @ 60Hz (YUV420)		(2) USB 2.0 Type A Transparent
Input Equalization	Automatic	OTHER	
Video Bandwidth	300 MHz, 10.2 Gbps	Power	External 100-240 VAC/ 5VDC4A @ 20W
HDCP Compliant	Yes	Consumption	20 W (Max)
Input/Output Max Cable Length	20 ft (depending on cable quality)	Dimensions	2" H x 5.75" D x 12.75" W
AUDIO		Weight	3.55 lbs
Input Interface	(4) 3.5mm stereo audio jack	Approvals	UL, CE, ROHS Compliant
Output Interface	(1) 3.5mm stereo audio jack	Operating Temp.	-5 to +35°C (+23 to +95°F)
Frequency Response	20Hz ~ 20KHz	Storage Temp.	-4-185°F (-20-85°C)
Common Mode	Rejection @ 60dB	Humidity	5 to 90% (No Condensation)
Nominal Level	0.0 to 1.0 V		
CONTROL			
Front Panel	Buttons (SELECT audio/video source)		
RS-232	Via Control @ 9600 bps		
Hot Keys	Via Keyboard		
Emulation	Keyboard, Video and Mouse		

## ORDERING INFORMATION

Part No.	Description
UHDN-4P-DUOS	4-Port Dual Head Ultra 4K-60 KVM Switch. Includes: [UHDN-4P-Duo & (PS5VD4A)]



Designed and Manufactured in the USA

[www.smartavi.com](http://www.smartavi.com)

Tel: 800.AVI.2131 • 818.503.6200 • 11651  
Vanowen St. North Hollywood, CA. 91605

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