

## VM0808HB

8 x 8 True 4K HDMI Matrix Switch



reddot award 2015  
winner interface design



ATEN's VM0808HB is a True 4K HDMI Matrix Switch series that offers an easy and affordable way to route any of 8 HDMI video sources to any of 8 HDMI displays. Featured with the superior video resolutions up to 4096 x 2160 @ 60Hz (4:4:4), the VM0808HB delivers robust signal routing and ultra-fast digital video switching, making it perfect for applications where routing of True 4K digital signals is required, such as event venues, digital classrooms, auditoriums, department stores, and more.

The intuitive GUI design of the VM0808HB allows users to flexibly configure any input to output connections, eliminating the need of frequent physical configuration changes. In addition to the built-in web GUI, the VM0808HB can be operated through front-panel pushbuttons, IR remote, RS-232 control, and Telnet via Ethernet connections, giving users the ultimate convenience while keeping the system available with performance video switching anytime.



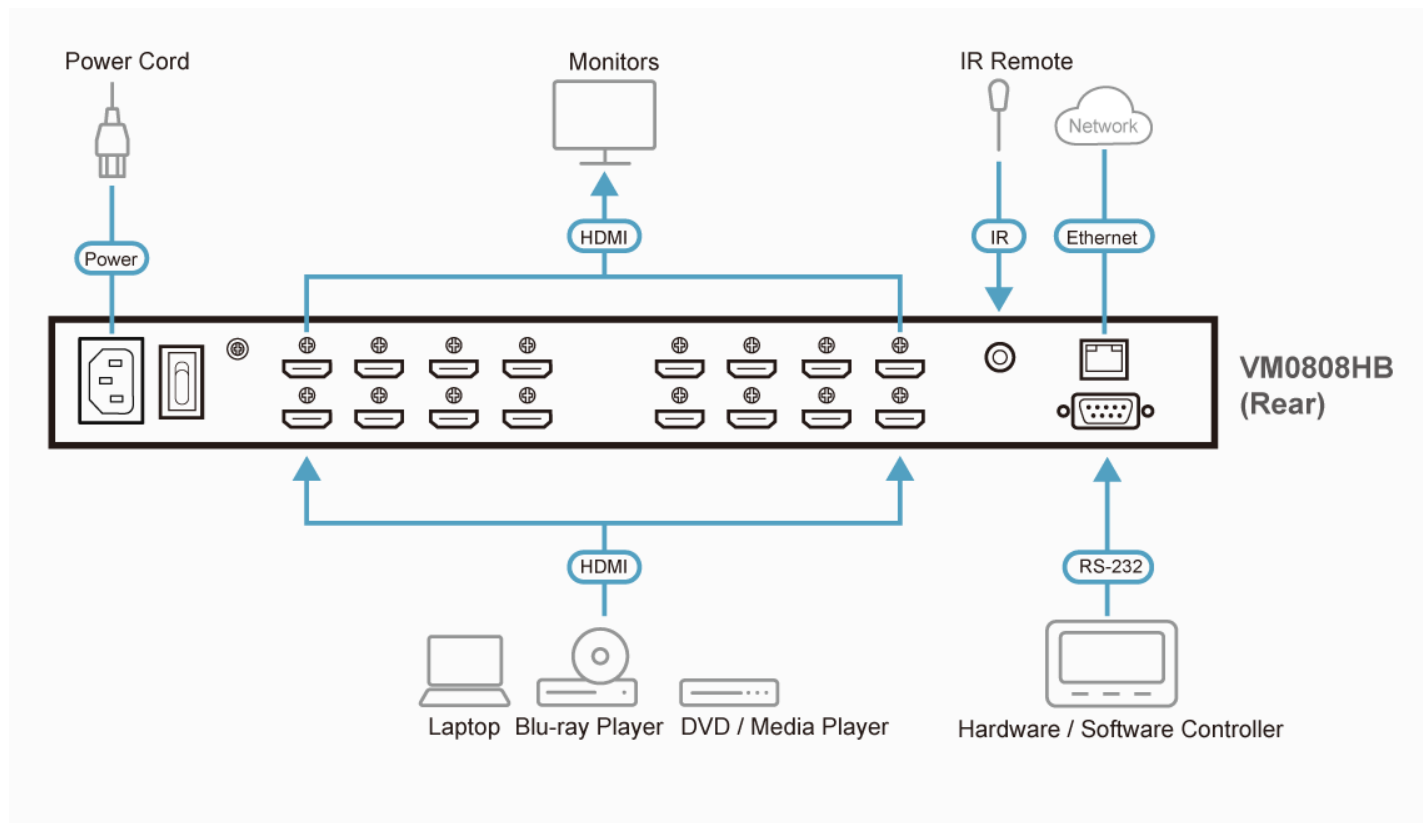
### Features

- Connects any of 8 HDMI sources to any of 8 HDMI displays
- [Supports True 4K resolutions up to 4096 x 2160 @ 60Hz \(4:4:4\)](#)
- Supports HDR10<sup>+</sup>
- Multiple Control Methods – system management via front-panel pushbuttons, IR remote, RS-232 control, and Web GUI/Telnet via Ethernet connections
- [EDID Expert™ – selects optimum EDID settings for smooth power-up, high-quality display and use of the best video resolution across different screens](#)
- Signaling rates up to 6 Gbits for flawless true 4K output
- Supports Dolby True HD and DTS HD Master audio
- HDMI (3D, Deep Color, 4K) and HDCP 2.2 compatible
- Power-on Detection – switches to the next powered-on source when one source is powered off
- Supports Consumer Electronics Control (CEC)
- [ESD protection for HDMI](#)
- Supports ATEN's LockPro™ HDMI cable lock for secure HDMI cable connections
- Firmware upgradeable
- Rack mountable (1U design)

## Specification

|                            |                                                                                                                                                                                                                                                                                |
|----------------------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Video Input                |                                                                                                                                                                                                                                                                                |
| Interfaces                 | 8 x HDMI Type A Female (Black)                                                                                                                                                                                                                                                 |
| Impedance                  | 100 $\Omega$                                                                                                                                                                                                                                                                   |
| Max. Distance              | 5.0 m / 4K@60Hz (4:4:4)                                                                                                                                                                                                                                                        |
| Video Output               |                                                                                                                                                                                                                                                                                |
| Interfaces                 | 8 x HDMI Type A Female (Black)                                                                                                                                                                                                                                                 |
| Max. Distance              | 5m / 4K@60Hz (4:4:4)<br>15m / 1920 x 1200                                                                                                                                                                                                                                      |
| Impedance                  | 100 $\Omega$                                                                                                                                                                                                                                                                   |
| Video                      |                                                                                                                                                                                                                                                                                |
| Max. Pixel Clock           | 600 MHz                                                                                                                                                                                                                                                                        |
| Max. Resolution            | Up to 4096 x 2160 / 3840 x 2160 @ 60Hz (4:4:4)                                                                                                                                                                                                                                 |
| Max. Data Rate             | 18 Gbps( 6 Gbps Per Lane)                                                                                                                                                                                                                                                      |
| Compliance                 | HDMI (3D, 4K, Deep Color)<br>HDCP 2.2 Compatible<br>Consumer Electronics Control (CEC)                                                                                                                                                                                         |
| Control                    |                                                                                                                                                                                                                                                                                |
| RS-232                     | Connector: 1 x DB-9 Female (Black)<br>Baud rate and protocol:<br>Baud Rate: 19200, Data Bits: 8, Stop Bits:1, Parity: No, Flow Control: No                                                                                                                                     |
| IR                         | 1 x Mini Stereo Jack Female (Black)                                                                                                                                                                                                                                            |
| Ethernet                   | 1 x RJ-45 Female                                                                                                                                                                                                                                                               |
| EDID Settings              | EDID Mode: Default / Port 1 / Remix / Customized<br>(EDID Wizard Support)                                                                                                                                                                                                      |
| Environmental              |                                                                                                                                                                                                                                                                                |
| Operating Temperature      | 0-40°C                                                                                                                                                                                                                                                                         |
| Humidity                   | 0 - 80% RH, Non-Condensing                                                                                                                                                                                                                                                     |
| Storage Temperature        | -20 - 60°C                                                                                                                                                                                                                                                                     |
| Physical Properties        |                                                                                                                                                                                                                                                                                |
| Weight                     | 3.99 kg ( 8.79 lb )                                                                                                                                                                                                                                                            |
| Housing                    | Metal                                                                                                                                                                                                                                                                          |
| Dimensions (L x W x H)     | 43.24 x 26.23 x 4.40 cm<br>(17.02 x 10.33 x 1.73 in.)                                                                                                                                                                                                                          |
| Connectors                 |                                                                                                                                                                                                                                                                                |
| Power                      | 1 x 3-Prong AC Socket                                                                                                                                                                                                                                                          |
| Carton Lot                 | 1 pc                                                                                                                                                                                                                                                                           |
| Power Consumption          | AC110V:38.1W:179BTU/h<br>AC220V:37.8W:177BTU/h<br><br>Note:<br>● The measurement in Watts indicates the typical power consumption of the device with no external loading.<br>● The measurement in BTU/h indicates the power consumption of the device when it is fully loaded. |
| Power                      |                                                                                                                                                                                                                                                                                |
| Maximum Input Power Rating | 100-240 VAC; 50-60 Hz; 1.0A                                                                                                                                                                                                                                                    |
| Note                       | For some of rack mount products, please note that the standard physical dimensions of WxDxH are expressed using a LxWxH format.                                                                                                                                                |

Diagram



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