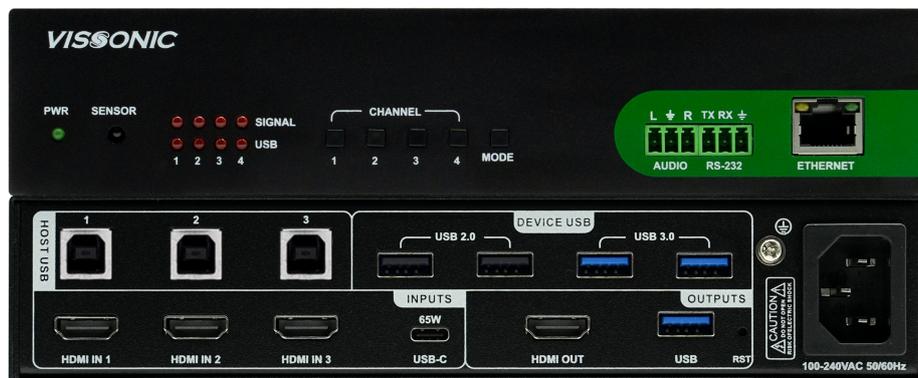


VIS-MV42

4K@60Hz Collaboration & Presentation Switcher

Datasheet V1.4



## 1. Product Overview

The VIS-MV42 is a versatile collaboration and presentation switcher designed for unified meeting spaces. It features three HDMI inputs and one full-function USB-C port supporting bidirectional audio/video transmission and 65W power delivery. With USB 3.0 connectivity, USB cameras, microphones, and other peripherals can be integrated for output to Microsoft Teams® and Zoom™, enabling laptop-based BYOM conferencing. The built-in KVM seat management platform allows multiple computers to be controlled via a single display, keyboard, and mouse, supports USB peripheral sharing and multi-view display, and enables local content sharing via HDMI or USB-C with simultaneous USB video output to remote conferences, providing a complete BYOD solution.

## 2. Features

- 3× HDMI inputs and 1× HDMI output, supporting up to 4K@60Hz (4:4:4), compliant with HDMI 2.0 and HDCP 2.2;
- Full-function USB-C interface, supporting up to 4K@60Hz (4:4:4) input, DP 1.2, PD 3.0, and up to 65W fast charging, with bidirectional video capture and output;
- Seamless switching with no flicker, black screen, or visual artifacts for smooth presentation;
- Multi-view display, enabling simultaneous viewing of local content and remote video;
- Customizable output layouts, allowing flexible multi-window configuration via a web-based canvas;
- USB 3.0 video output, transmitting HDMI audio and video to PCs, smartphones, or tablets for preview or capture in Microsoft Teams®, Zoom™, and other conferencing platforms;
- USB device management, supporting external USB cameras and microphones to seamlessly integrate room devices and laptop signals for unified conferencing output;
- Seat collaboration (KVM) management, enabling one keyboard and mouse to

control multiple computers, with smooth cross-screen operation and USB data sharing;

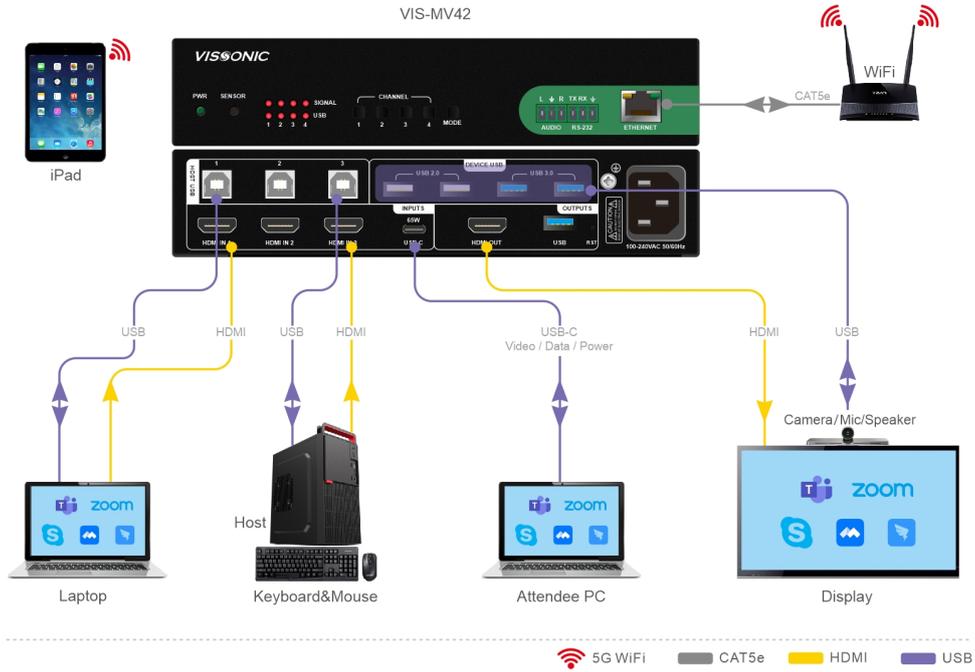
- Input labeling, allowing custom source names with support for any language and font;
- One-touch output freeze and unfreeze;
- One-touch output on/off control;
- Flexible switching logic, with configurable input priority for automatic source switching and true plug-and-play operation;
- Multiple control options, including RS-232, IR remote control, web interface, and front-panel buttons;
- Input test pattern generation for system commissioning and troubleshooting;
- Output test pattern generation to verify display and output connectivity;
- Intelligent HDMI output analysis, automatically selecting the optimal resolution based on display EDID;
- Output scaling modes supporting auto full-screen and aspect ratio preservation;
- Real-time device status monitoring via the web interface;
- Supports analog audio de-embedding;
- Supports input volume adjustment and multi-source audio mixing;
- Provides +5V DC / 250mA power for external HDMI peripherals;
- HDMI input equalization, actively compensating for signal loss caused by long or low-quality cables;
- Advanced EDID management, with multiple built-in EDID options and EDID file upload support;
- Supports control via Android and iOS mobile applications;
- Web-based one-click firmware upgrade for simplified maintenance.

### 3. Parameters

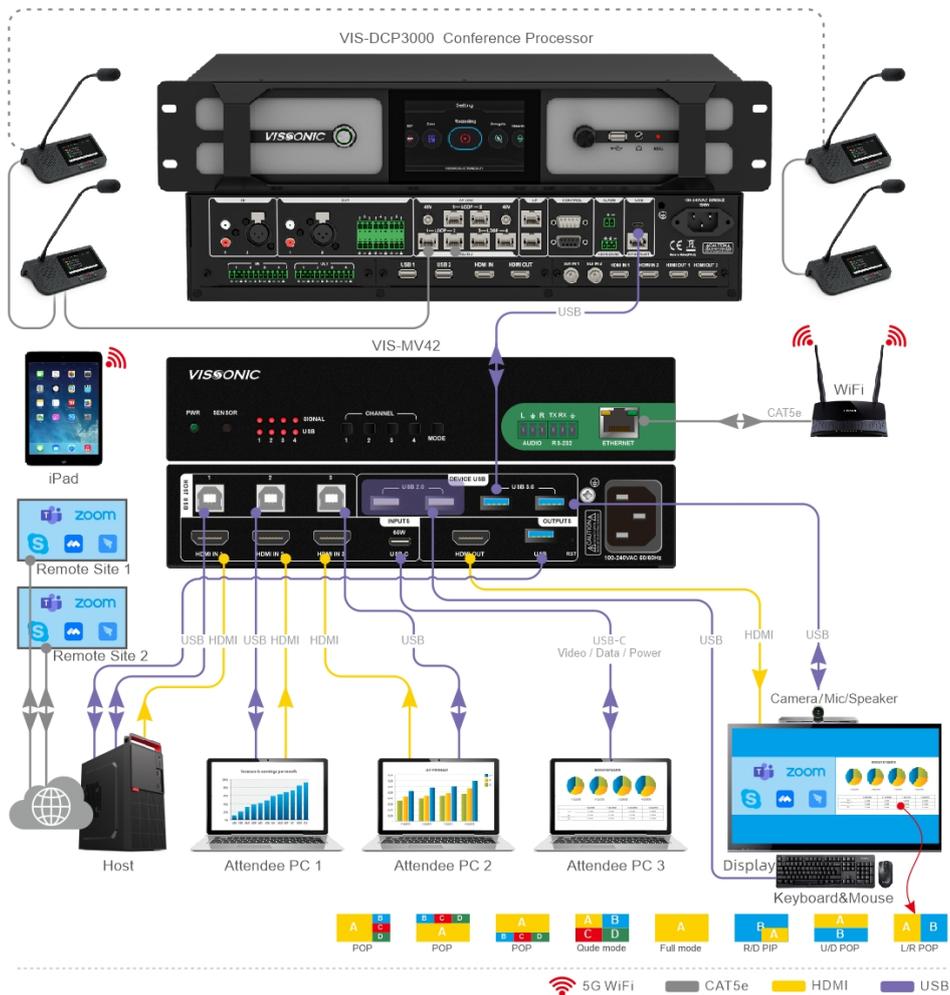
Model	VIS-MV42
HDMI Input	HDMI 2.0, HDCP 2.2
USB-C Input	DP 1.2, PD 3.0, up to 65W fast charging
HDMI Output	HDMI 2.0, HDCP 2.2
USB Output	<p><b>USB 3.0 (Video Streaming) Mode:</b></p> <p>YUV422: 4096×2160@25Hz</p> <p>MJPEG: 4096×2160@60Hz</p> <p>RGB: 1920×1080@60Hz</p> <p>NV12: 3840×2160@30Hz</p> <p><b>USB 2.0 Mode:</b></p> <p>YUV422: 1920×1080@10Hz</p> <p>MJPEG: 1920×1080@60Hz</p>
USB Host	USB 3.0, Type-B
USB Device	<p>2× USB 2.0 (supports automatic keyboard/ mouse cross-screen control)</p> <p>2× USB 3.0</p>
Maximum Power Consumption	100W
Storage Environment	Temperature: -20°C~70°C; Humidity: 10%~90%
Power Supply	100–240V AC, 50/60Hz
Size (W×D×H)	213×278×44 mm
Compliance	CE, ROHS
MTBF (Mean Time Between Failures)	Up to 100,000 hours
Warranty	3 Years

# 4. System Diagram

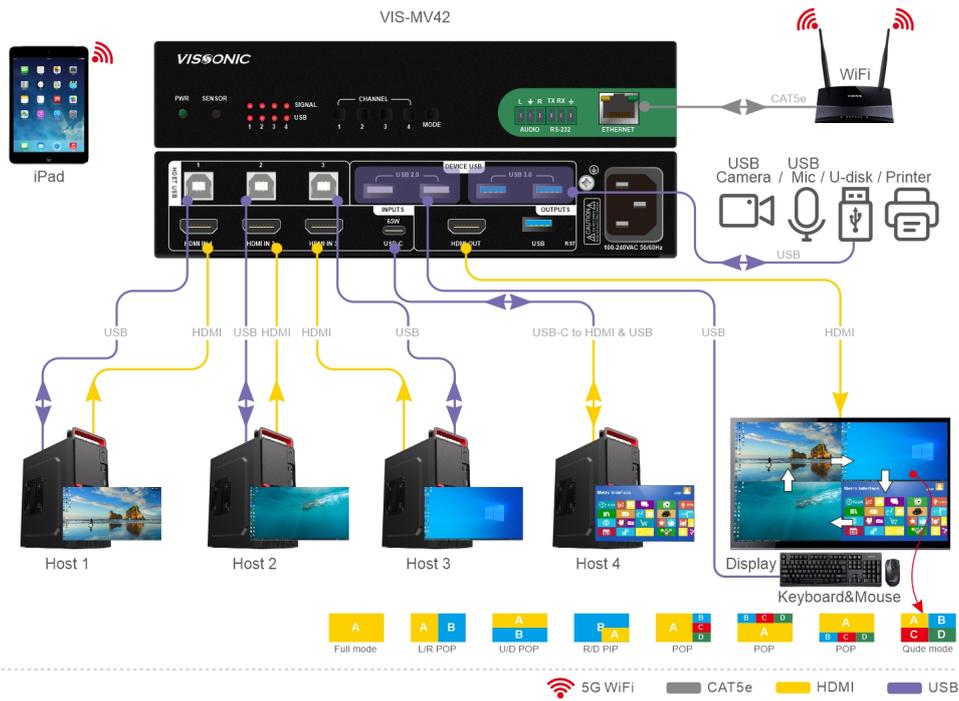
## BYOM Diagram



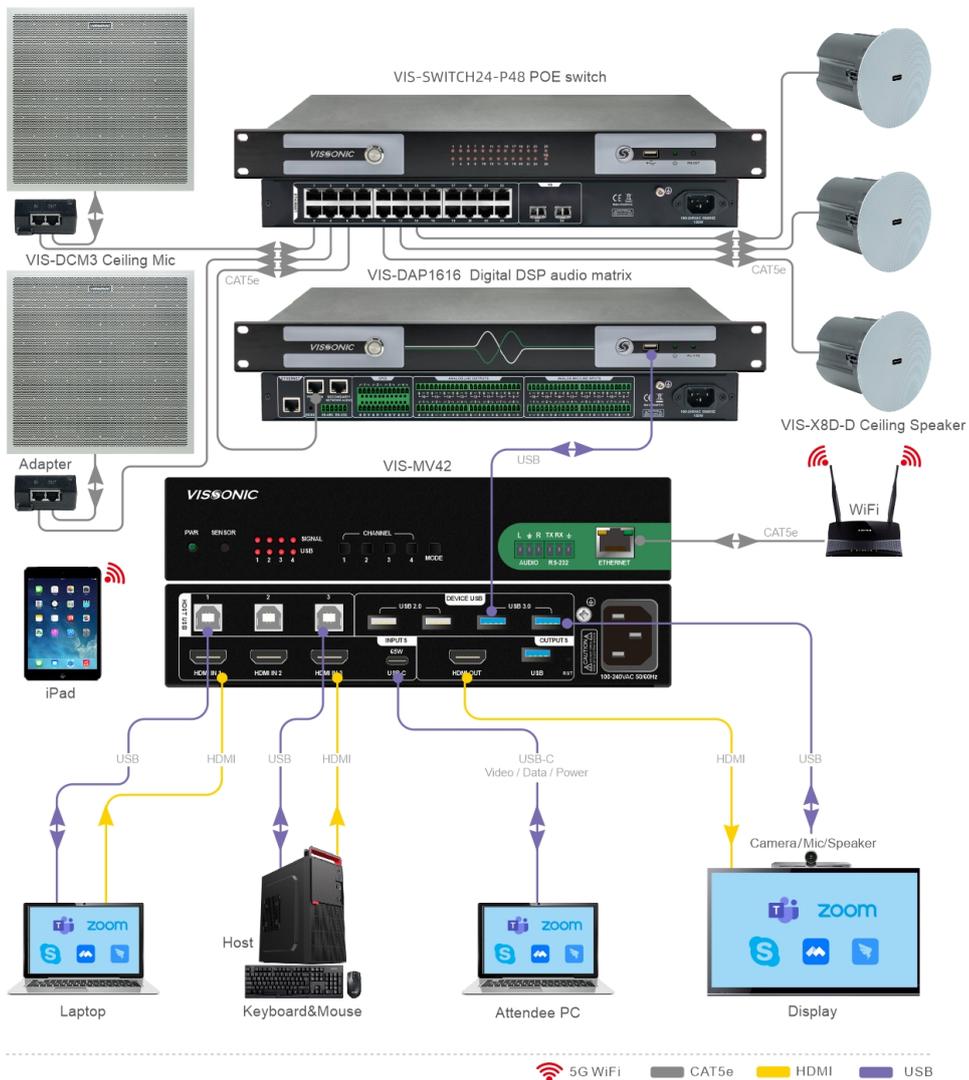
## BYOD Diagram



**KVM Diagram**



**BYOM CLASSROOM Diagram**



## **About VISSONIC Electronics Limited**

Our mission is to develop and manufacture the most comprehensive and innovative audio visual products for our clients. We provide the best performance/price ratio products because it could give you satisfaction just from the time you use them, we believe the good design with cutting edge technology on products will provide value to all our partners and end users. Listen to your demands, we fulfill it.

The logo for VISSONIC features the word "VISSONIC" in a bold, italicized, black sans-serif font. The letter "S" is highlighted in a vibrant green color, creating a focal point in the brand name.

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