



**VIS-SONIC**<sup>®</sup>  
Professional Audio/Visual Manufacturer

digital classrooms, and video conference rooms...

# VIS-MV42 4K@60Hz Collaboration & Presentation Switcher

The VIS-MV42 4K@60Hz collaboration & presentation switcher is designed for modern meeting spaces, featuring 3 HDMI inputs, USB-C, USB 3.0 audio/video streaming, seat management, multi-view display, and more. It supports BYOM and BYOD modes, integrates with Zoom™ and Teams®, and serves as the “smart collaboration hub” in your conference room.



Flexible Switch



4K Seamless



Multi-view



KVM



USB-C Fast Charge

## Full-function USB-C

Single cable connectivity

USB-C port for audio, video, data, and 65W power, one cable for a clean, efficient connection.

## Multi-view

Local and remote display

Multi-signal display, with local and remote content shown simultaneously for more intuitive collaboration.

## Plug & Play

Direct device connection

In BYOD scenarios, connect via HDMI or USB-C to project content, with no software and smooth switching without black screen.

## BYOM Built-in Meeting

Low cost, high flexibility

No dedicated PC required; laptops connect to the room camera and mic for remote meetings, enabling collaboration and local presentation.



## Flexible Switch

Independent audio/video & USB

USB devices like cameras and mic can be fixed to a computer, with independent big screen switching, ensuring no interference.

## Smart Collaboration

Auto switch, no central control

Auto priority switching, auto projection on laptop connect, and restore on disconnect, no central control needed.

## KVM Seat Management

One keyboard and mouse for multiple devices

One keyboard and mouse control multiple PCs, with cross-screen and USB follow.

## Stable & Reliable

Simple installation and maintenance

Half-rack metal chassis, desk/cabinet mountable, with web, app, and RS-232 control, easy maintenance.

# Features



VIS-MV42 4K@60Hz Collaboration & Presentation Switcher

## Overview

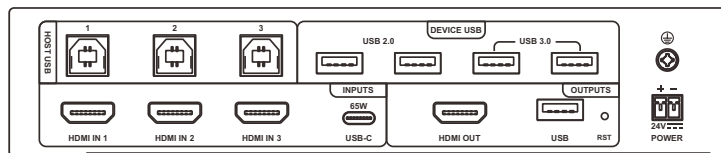
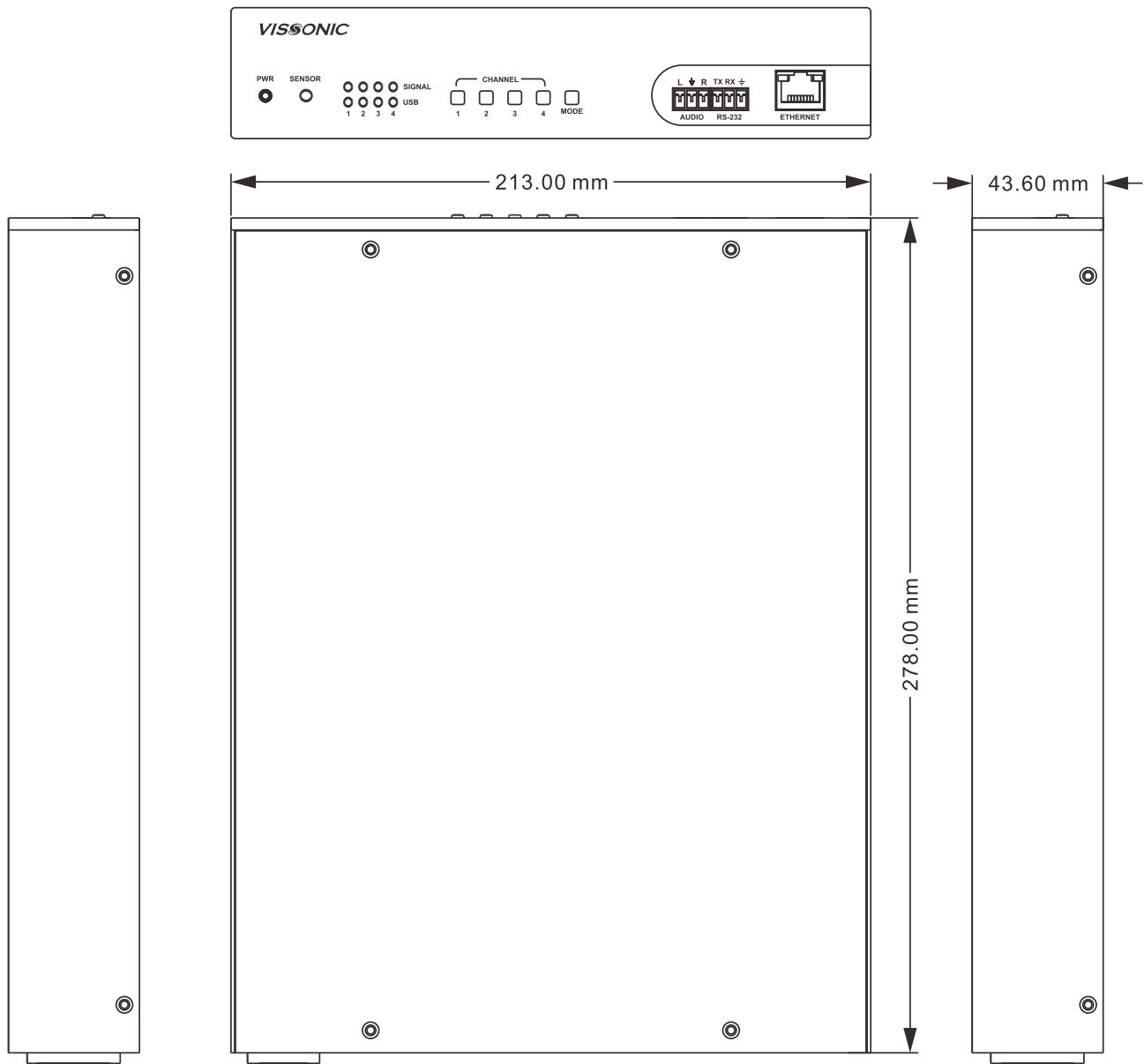
The VIS-MV42 is a versatile collaboration and presentation switcher designed for unified meeting spaces. It features three HDMI inputs and one full-function USB-C port supporting bidirectional audio/video transmission and 65W power delivery. With USB 3.0 connectivity, USB cameras, microphones, and other 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.

## Basic Functions

- 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.

# Mechanical Drawing



**VIS-MV42**

Size(mm): 213(L)x278(W)x43.6(H)

# Specifications

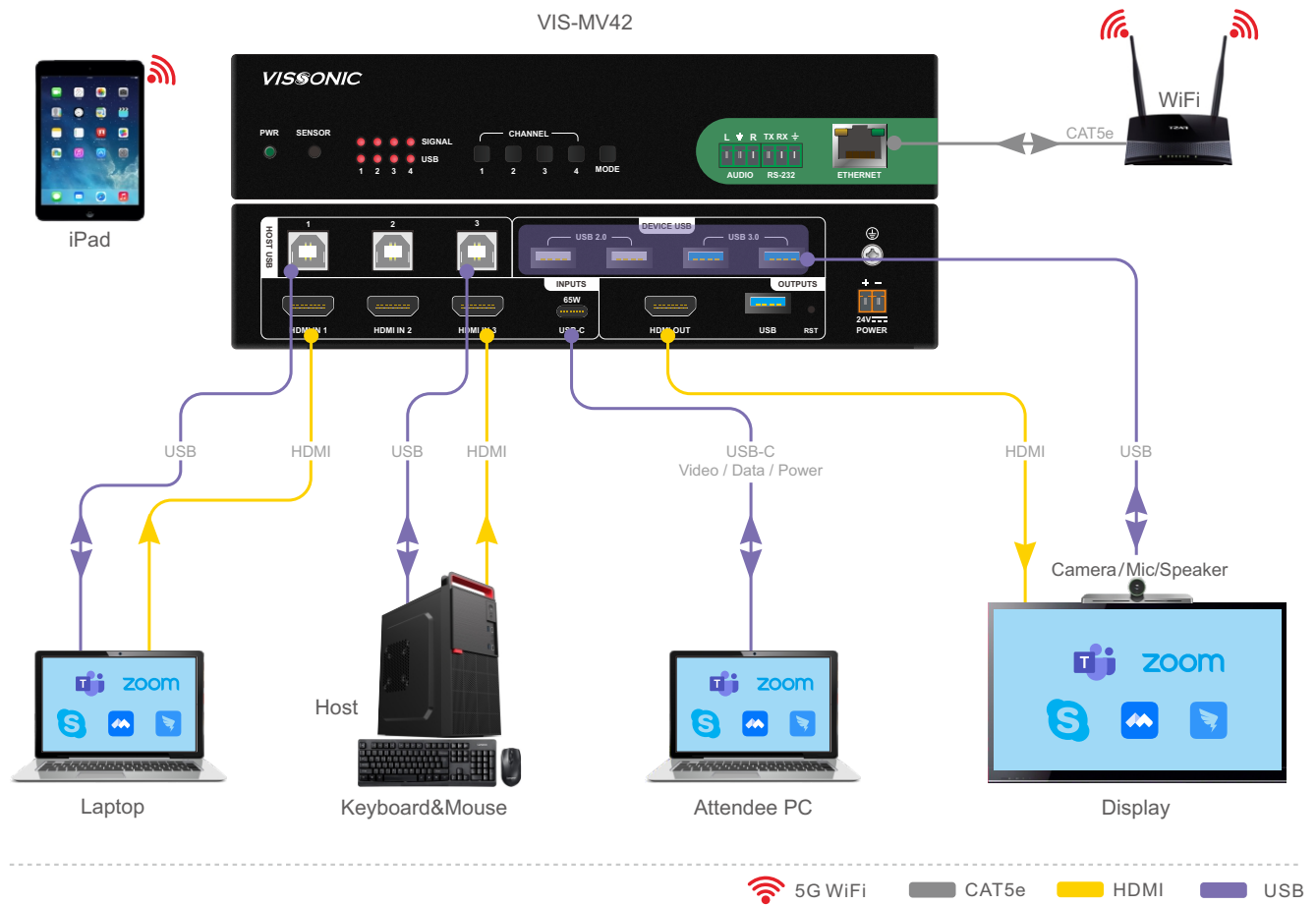
<b>Model</b>	<b>VIS-MV42</b>
HDMI Input	HDMI 2.0, HDCP 2.2
USB-C Input	DP 1.2, PD 3.0, up to 65W fast charging
HDMI Output	HDMI 2.0, HDCP 2.2
USB Output	USB 3.0 (Video Streaming) Mode: YUV422: 4096×2160@25Hz MJPEG: 4096×2160@60Hz, RGB: 1920×1080@60Hz NV12: 3840×2160@30Hz USB 2.0 Mode: YUV422: 1920×1080@10Hz, MJPEG: 1920×1080@60Hz
USB Host	USB 3.0, Type-B
USB Device	2× USB 2.0 (supports automatic keyboard/ mouse cross-screen control), 2× USB 3.0
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	Up to 100,000 hours
Warranty	3 Years

# BYOM Diagram

## BYOM Solution

Core Goal: Transform attendee laptops into professional conference terminals in seconds.

Connect the attendee's laptop to the VIS-MV42 via USB-C or HDMI to integrate external USB cameras, mics, and video signals for output to Teams® or Zoom™. This allows the laptop to initiate video conferences, display content on the screen, and provide 65W fast charging via USB-C.

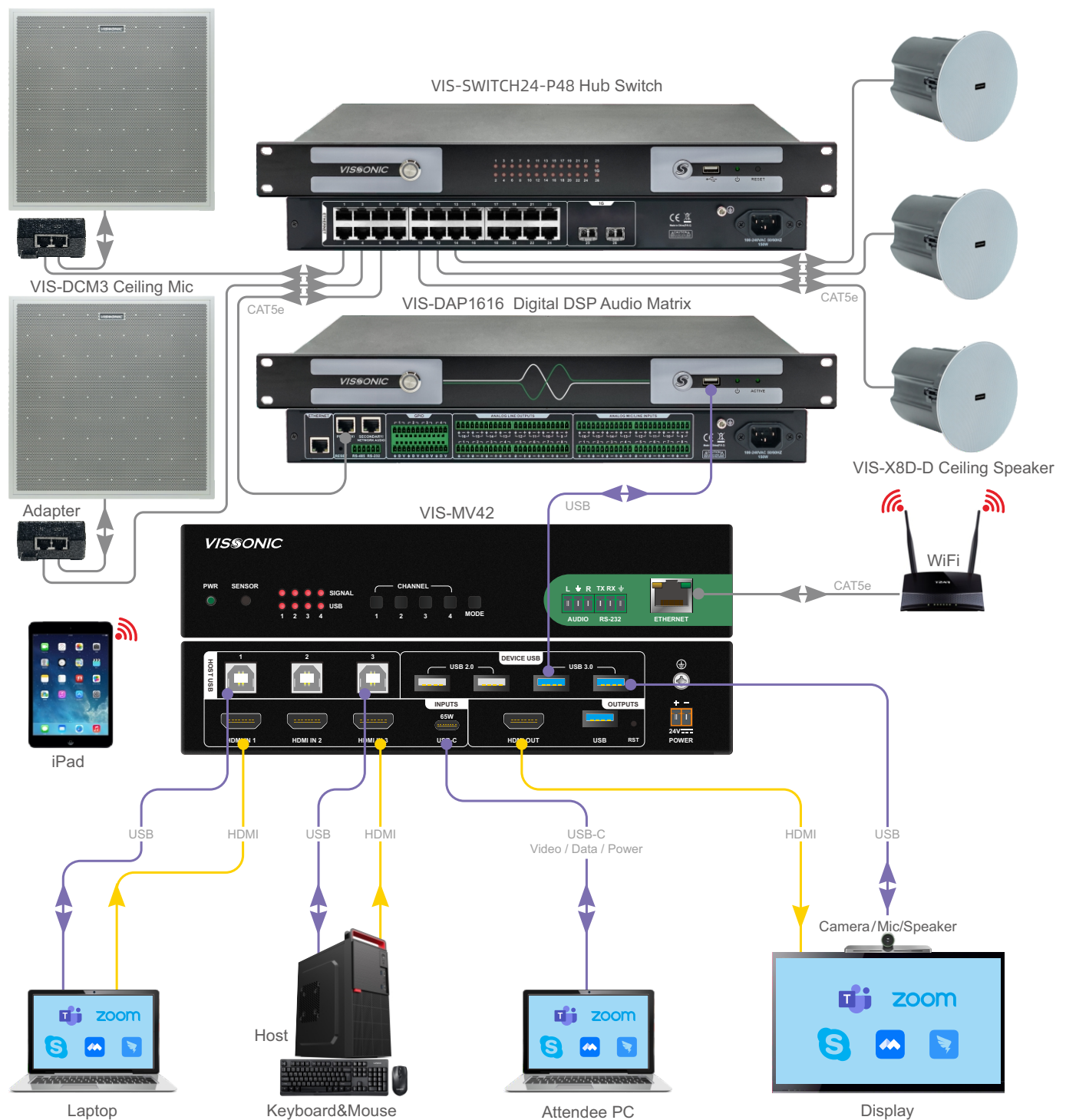


# BYOM CLASSROOM Diagram

## BYOM CLASSROOM Solution

Core Goal: Build an integrated smart classroom for seamless collaboration between teachers, students, and systems.

Teachers connect laptops to the VIS-MV42 via USB-C or HDMI to integrate the ceiling mic, audio processor, and ceiling speakers for a sound system. Students can share content to the display for interaction. The system streams audio and video to remote platforms, enabling a unified smart classroom for both local and remote participants.

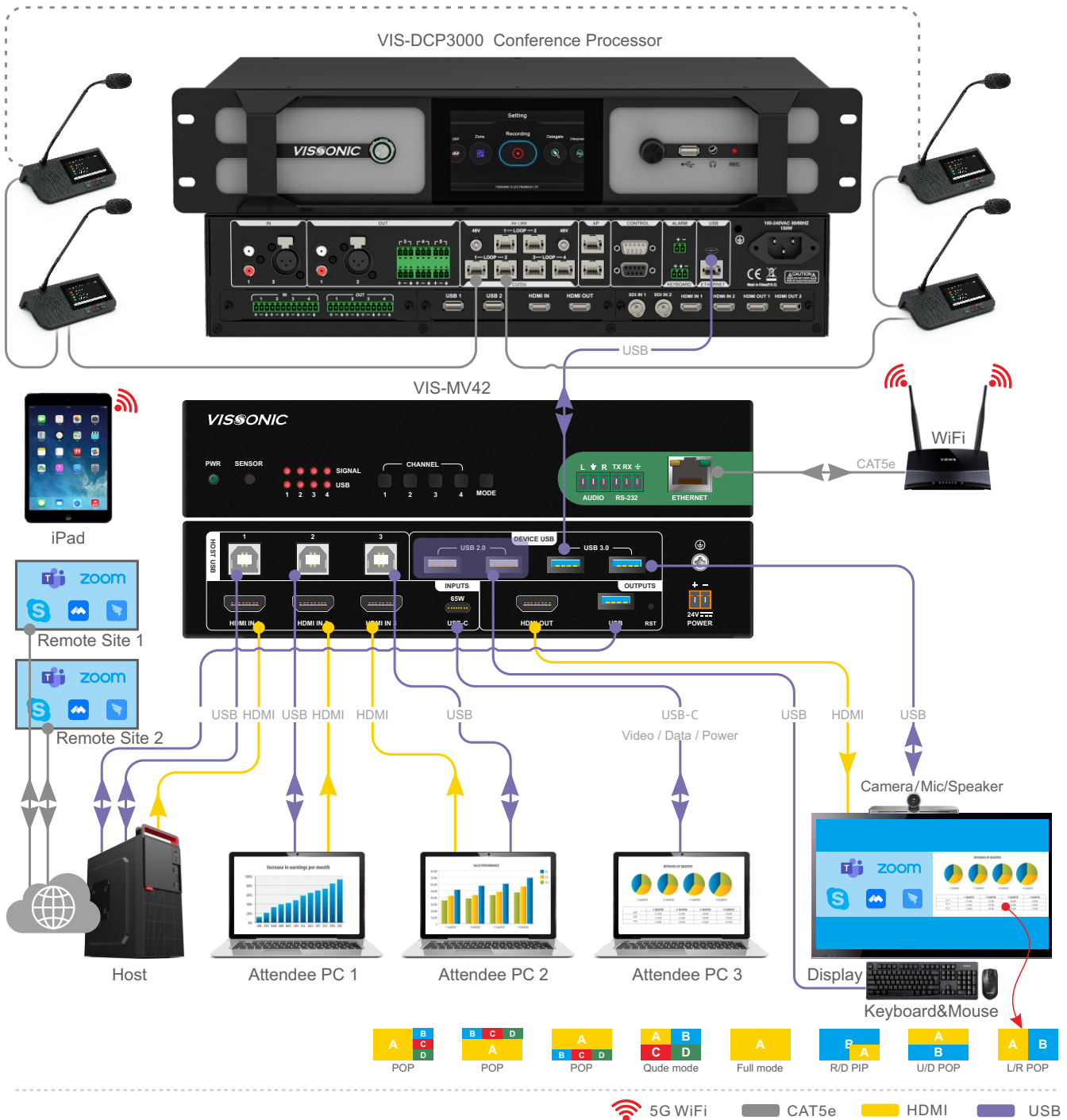


# BYOD Diagram

## BYOD Solution

Core Goal: Display each attendee's content on the main screen with one click.

To share meeting content, connect the attendee's laptop to the VIS-MV42 via USB-C or HDMI, instantly switching the content to the main display with no black screen, ensuring a smooth transition. Alternatively, connect the VIS-MV42 to the conference processor.

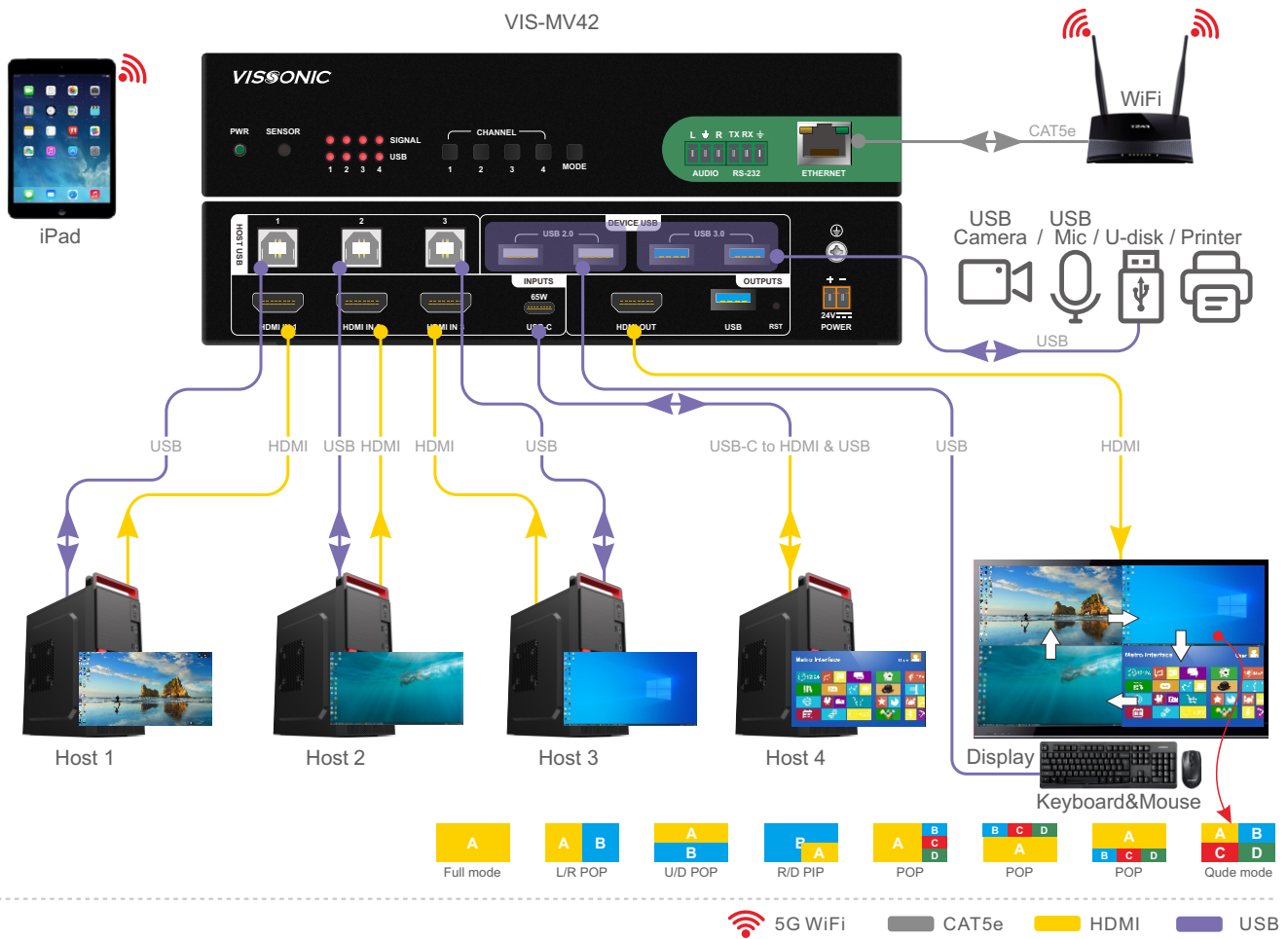


# KVM Diagram

## KVM Solution

**Core Goal:** Enabling one keyboard and mouse to control multiple computers with cross-screen operation.

The built-in KVM seat management platform allows multiple computers to be controlled via a single display, keyboard, and mouse, enabling cross-screen operation. All computer screens are displayed on the same monitor in a multi-view format, with keyboard and mouse actions following the cursor to the corresponding computer, while supporting USB peripheral management.



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**VISSONIC®**  
Professional Audio/Visual Manufacturer