BYOM Feature Usage Guide

What is BYOM?

BYOM, or "Bring Your Own Meeting," allows users to utilize conference room cameras and omnidirectional microphone speakers for remote video conferences via Wi-Fi from their laptops. Simultaneously, the laptop screen can be wirelessly projected onto the conference room's display or projector.

Connection Topologies for BYOM

BYOM supports three connection topologies:

Topology for All-in-One USB Conference Audio and Video Device

- 1. The USB audio and video device connects to the rear USB port of the base unit.
- 2. The base unit's HDMI OUT connects to the display screen or projector.



Topology for USB Conference Camera and USB Omnidirectional Microphone

- 1. The USB conference camera connects to the front USB port of the base unit
- 2. The USB omnidirectional microphone speaker connects to the rear USB port.
- 3. The base unit's HDMI OUT connects to the display screen or projector.



(Note: Audio priority is given to the rear USB port.)

For both configurations, users can set the camera type to either "USB Camera" or "USB Camera Re-encoded" in the web settings. The default is "USB Camera Re-encoded."

- **USB Camera:** The base unit retrieves the MJPEG video stream from the USB camera and directly transmits it to the transmitter without processing.

 Advantages: Low latency; Disadvantages: High Wi-Fi transmission requirements for high bitrate, potentially causing lag or disconnection.
- USB Camera Re-encoded: The base unit retrieves the MJPEG video stream, re-encodes it, and transmits it to the transmitter.

Advantages: Stable transmission; Disadvantages: Increased latency (~30ms).



Topology for HDMI Conference Camera and USB Omnidirectional Microphone

- 1. The HDMI camera connects to the rear HDMI IN port of the base unit.
- 2. The USB omnidirectional microphone speaker connects to the rear USB port.
- 3. The base unit's HDMI OUT connects to the display or projector.
- 4. The web camera setting must be configured as an "HDMI Camera."



HDMI Camera: The base unit retrieves video from the HDMI camera, encodes it in MJPEG, and transmits it to the transmitter.

Average bitrate: 40 Mbps for 1080p at 30 fps, 25 Mbps for 720p at 30 fps.

If HDMI loop-through is enabled, the camera's video feed will be synced to the large display or projector. (Note: The screen displays the projection when in use and the camera feed when idle.)

Operational Instructions

• Insert an F21SU or F11SU transmitter into the laptop to enable wireless presentation and camera feedback functions.

Wireless presentation:

- Plug and play for wireless presentation.
- The F21SU (TYPE-C DP) and F11SU (HDMI) support 4K resolution, while the F21SU (TYPE-A USB) supports 2K.
- Encoding: Hardware encoding for TYPE-C DP or HDMI; Software encoding for USB.

• Camera Feedback:

- Activates when a video conferencing application accesses the camera feed.
- Example (Tencent Meeting): Select "BYOM UVC Camera" as the camera and "BYOM UAC" as the microphone.



