



Prestel BYOM-2



Dual Screen Wireless Conferencing Solution



[DATASHEET](#)

BYOM-2 is a brand new wireless conferencing solution that provides dual screen collaboration for both local meeting and remote meeting, in a local meeting the 2 screens can show the same content or different, in a remote meeting, the 2 screens can be utilized as one screen for video conferencing, one screen for content sharing, and with our technology, the sharing content on the local display can be also sync to the remote by video conferencing; with HDMI+USB local inputs, it can connect with a existed room UC system, and available to switch the USB cam/mic easily between UC system and wireless BYOM. What's more, it can connect 2 USB cameras simultaneously and available to switch between them.



1. Interface/button description:

- ① GPIO interface
- ② RS232 for control
- ③ 3x 1000M LAN port, for network connection and telnet control
- ④ Sub HDMI output
- ⑤ Main HDMI output
- ⑥ HDMI input
- ⑦ Reset
- ⑧ 3.5mm jack
- ⑨ Touch HID for sub output
- ⑩ Touch HID for main output
- ⑪ USB-B port for connection with room PC
- ⑫ 3x USB-A 3.0 ports, 1x USB-C for USB devices like camera, speakerphone
- ⑬ 12V/3A power
- ⑭ Power standby

- ⑮ USB switching button
- ⑯ USB-A for HDMI dongle for pairing, USB-C for USB-C dongle pairing
- ⑰ Kensington lock

2. The technical spec

HDMI output	1x HDMI 2.0, 1x HDMI 1.4
Main output Resolution	3840x2160@60Hz, 3840x2160@30Hz,
	1920x1080@60Hz, 1280x720@60Hz
	1900x1200@60Hz, 1280x800@60Hz
Sub output Resolution	1920x1080@60Hz, 1280x720@60Hz
	1900x1200@60Hz, 1280x800@60Hz
Format Compliance	HDMI1.4/HDMI2.0
Input video Capacity:	1080P @ ≤30Hz Airplay, Miracast, Chromcast
	1080P @ ≤30Hz "WirelessMedia" app
	4K @ ≤30Hz for HDMI dongle
	4K @ ≤30Hz for USB-C dongle
	4K @30Hz for HDMI wired input
HDCP	HDCP 1.4
HDMI Input	1x HDMI 19-pin female connector
Format Compliance	HDMI1.4
CEC	Support
analog audio Output	Yes, 3.5mm jack
LAN port	RJ45 x2 1000Mbps
USB interface	USB-A 3.0 x3, USB-B 3.0x 1, Type-C(USB3.0) x1, USB 2.0 x3, Type-C(USB2.0) x1
USB Camera over wifi	≤1080P@30, MJPG
Audio Input	AirPlay/Miracast/Chromecast, Windows/MAC Apps, buttons, USB Mic
Audio output	jack, HDMI, jack + HDMI, USB Speaker
Control connectors	3 pin Phoenix terminal/ RS232 interface
Number of window simultaneous on screens	≤ 5
Number of simultaneous connections	≤ 16(Max 2xAirplay or 2xMiracast or 2xChromecast, no limit with Apps and buttons)
Video Playback Frame Rate	20-60 FPS
Latency	80~120ms,
WIFI Data rate	Up to 1200Mbps
Wireless transmission protocol	WIFI IEEE 802.11 b/g/n/ac
Web security	HTTPS
Frequency band	2.4 GHz & 5 GHz
WIFI Antenna	MIMO 2x2 and MIMO 1x1
WIFI Encryption	AES WPA PSK, WPA2 PSK
Control method	Web GUI, Telnet, RS232

DC Power input	12V/3A
PoE	yes

3. Feature description:

- Dual outputs support content sharing from same source or different sources
- Support up to 4 sources shared in a single screen
- Support wireless sharing from Airplay, Miracast, Chromecast, App, dongles
- Support both 1080P and 4K dongles
- Support 4K HDMI input as content sharing
- Support USB cam/mic/speaker transmission over wifi
- Support camera switching
- Support USB devices switching between local room PC and wireless laptop
- Support sharing content on the display to remote participant over video conference
- Support 2 LAN ports for network isolating between staff and guest;
- Touch back function supported with both wired and wireless connection (App and dongles)
- Provide analog audio breakout
- Provide both RS232 and Telnet control
- Support OTA FW upgrade

System Diagram

