

BYOM E900P Specifications



Embedded Hardware Architecture:

- High-end multimedia chip RK3566 from Rockchip
- A55 1.8GHz Quad-core CPU
- Built-in dedicated hardware video codec processor (supports decoding of 1 channel 4K60 or 9 channels 1080P30 + 1 channel 1080P30 encoding simultaneously)
- LINUX operating system, stable system, can run continuously without shutdown, supports 7x24 hours operation.

Supported Operating Systems:

- Windows 7/10/11 (32-bit and 64-bit)
- MAC OS X 10.10 and above
- Supports wireless screen mirroring from smartphones/tablets: AirPlay (iOS 9 and above, OS X 10.10 and above), Android and HarmonyOS apps (Android 5.0 and above)
- Supports Android and HarmonyOS phones via Miracast, and Windows 10/11 WiDi screen mirroring.

Hardware Specifications:

- 1x HDMI2.0 output interface
- 1x HDMI1.4 input interface
- 1x Gigabit Ethernet interface
- 1x 3.5mm audio output interface
- 2x USB 2.0 interfaces
- 1x TYPE-C 2.0 interface
- 1x 12V/2A power interface
- 1x RESET button for factory settings

HDMI Output Resolution:

- Max 4096x2160P60

Supported Resolutions for Output:

- 4096x2160P60, 4096x2160P30, 3840x2160P60, 3840x2160P50, 3840x2160P30, 2560x1600P60, 2560x1440P60, 1920x1200P60, 1920x1080P60, 1920x1080P50, 1600x1200P60, 1280x800P60, 1280x720P60, 1024x768P60.

HDMI Input Resolution:

- Max 1920x1080P60

HDMI Input Features:

- HDMI input can be configured to loop through to HDMI output for display or can be set to display with other transmitters in a multi-screen mode.

Codec Formats:

- H.265, H.264

Encoding/Decoding Capacity:

- Max 4K60

Supported Transmitter Interfaces:

- USB transmitter (1080P encoding)
- HDMI transmitter (1080P/4K encoding)
- TYPE-C transmitter (1080P/4K encoding)

Software-based Screen Mirroring:

- Supports WIN pure software screen mirroring via WIN Sender application.

Display Content:

- Supports mixed display from computer and mobile devices, with multiple mobile devices displayed simultaneously.
- Various transmitters (hardware, AirPlay, software, etc.) can switch between each other without waiting.

Display Aspect Ratio:

- Supports aspect ratios of 4:3, 16:9, 16:10

Wireless Features:

- Supports auto search for multiple receivers on the same network segment for screen mirroring
- Supports 1 to 9 sources on screen simultaneously (configurable in WEB)
- Maximum source inputs: 64

4K Output for Single Screen:

- True 4K output (4K input, encoding, decoding, and display)

Multi-screen 4K Output:

- 2 to 4 screens: 1080P resolution per screen
- 5 to 9 screens: 720P resolution per screen

Audio Output:

- 44.1KHz/16bit Stereo via HDMI embedded audio and 3.5mm analog line-out.

Dual WiFi Support:

- AP Hotspot: WiFi6 2T2R module, external dual antenna
- Wireless network card: WiFi5 2T2R module, external dual antenna
- Supports wireless and wired bridging

Wireless Transmission Protocol:

- IEEE 802.11ax/802.11ac/802.11n

Wireless Transmission Speed:

- Up to 1200Mbps

Wireless Transmission Range:

- 50 meters (line-of-sight)

Wireless Frequency Bands:

- Supports 2.4GHz or 5GHz, default 5G

Available Channels:

- 9 channels (5G) / 11 channels (2.4G), 20 total channels

Wireless Encryption:

- WPA2-PSK

Transmission Delay:

- Average delay less than 150ms

Customization Features:

- Supports custom boot/standby screens
- WEB management interface supports modification of frequency band, channels, video output resolution, WiFi name, and password
- Supports USB and WEB upgrades
- Supports factory reset via WEB or RESET button

Additional Features:

- Supports auto loop playback of videos and images from USB, with 4K support

- BYOM (Bring Your Own Meeting) apps: USB interface supports camera, microphone, and speaker for wireless transmission to PC
- HDMI input supports camera for MJPEG encoding and wireless return to PC
- Supports Android controller mode for host control and WIN Controller software for centralized management
- Wired multicast supports up to 250 screens displaying the same content
- Wireless multi-screen: 1 transmitter + 8 receivers, no router required, self-networking
- Supports mouse and touch feedback control for screen mirroring, multi-screen zoom, and restore functions

Power/Consumption:

- Average power consumption: $\leq 6W$ (excluding USB camera power)

Temperature Range:

- Operating: $+5^{\circ}C \sim +40^{\circ}C$; Storage: $-20^{\circ}C \sim +60^{\circ}C$

Humidity Range:

- Operating and storage: 0 ~ 90% relative humidity, non-condensing