

4K Video Bar

4K-A303UHL



The 4K-A303UHL is a USB video bar integrated device designed for small to medium-sized enterprise meeting spaces. It features a 4K ultra-high-definition camera, a digital microphone, and a full-range speaker in a three-in-one design that minimizes cabling. The video resolution reaches up to 20 megapixels, allowing remote participants to see a clear panoramic view and close-ups of individuals in the meeting room. With multiple AI video processing algorithms, it enables efficient and intelligent remote communication and collaboration without the need for manual intervention.



Features

Integrated Design

The all-in-one design combines a 4K UHD camera, beamforming microphone, and full-range speaker, simplifying setup and making video communication seamless.

20MP Ultra-Sharp Visual Experience

Featuring a 1/1.8-inch, 20-megapixel UHD CMOS sensor, it delivers clear 4K (3840x2160) video at 30fps. It's also backward compatible with 1080P and 720P to suit different video needs.

Wide Field of View

With a 120° wide field of view (110° horizontal), 5x digital zoom, and built-in electronic pan / tilt (±15°), the optical lens is designed for conference use, ensuring clear coverage of all participants.

AI-Powered Intelligent Camera Technology

Built-in AI algorithms for face and human shape recognition automatically adjust the lens to frame participants as they move. The sound source positioning algorithm locks onto the speaker, focusing on them without manual intervention.

AI-Powered Audio 3A Algorithm

AI-driven audio algorithms based on deep learning effectively eliminate echo, noise, and reverb, ensuring clear full-duplex audio conversations.

6m Pickup

The beamforming microphone uses a low-distortion lateral beamforming algorithm to directly target the speaker, ensuring balanced audio pickup with the range of up to 6 meters.

POE Cascade Pickup

Built-in POE power supply network port, support cascade 3 array microphone, can evenly cover a wider range of conference room scene, to provide equal and consistent pickup sound for each participant.

Full-Range Sound Reinforcement

Integrates a full-range high-fidelity speaker, professionally tuned to effectively reduce sound interference, outputting rich bass, full midrange, and clear treble, with natural and authentic human voices.

Wired & Wireless BYOM

Equipped with a built-in Wired Network or WiFi module, it supports participants using their familiar personal devices (such as laptops, smartphones, or tablets) to join meetings and access the integrated audio-video functions at any time. It also supports wired or wireless screen mirroring from computers to the device, allowing for local or remote meeting screen sharing without the need for cables.

Product Specification

▼ Camera Spec

Video Resolution	4KP30, 1080P30, 1080P60, 720P60
Sensor	1/1.8-inch, CMOS, Effective Pixels: 20 MP
Horizontal FOV	110°
Focal Length	f=2.8mm, F1.8
Diagonal FOV	120°
Digital zoom	5x
Pan Angle	±15°
Tilt Angle	±15°
PTZ	Mechanical PTZ (MPTZ) + e-PTZ (EPTZ)
Digital Noise Reduction	2D & 3D Digital Noise Reduction
SNR	≥ 55dB
Backlight Compensation	Support

Audio Spec

Full-frequency Speaker	96 dB SPL at 0.5 m
Microphone Array	6 beamforming microphones with 6m pickup distance
Expansion MIC	Supports up to 3 microphones via DMIC interface
Audio 3A Algorithm	AI-Powered AEC/ANC/AGC
Sampling Rate	Mic 48K, Speaker 48K

USB Spec

Type of Connection	USB 3.0, downward compatible with USB 2.0
Color System / Compression	MJPEG / YUY2 / H.264
USB Audio	48K sampling rate, UAC 1.0 support
USB Video Class (UVC)	UVC 1.1
UVC PTZ Control	Support (ePTZ)

Input/Output Interface

USB 3.0	1 × USB 3.0, type-C, Support audio/video transmission and firmware upgrade 1 × USB 3.0, type-A, Reserved
HDMI	1 × HDMI OUT, 1 × HDMI IN
Network Interface	1 × RJ45, 10/100/1000M adaptive Ethernet port
EXT Interface	1 × RJ45, connects to expansion microphone or wired BYOM pod, and supports PSE power supply (IEEE802.3at)
Power	1 × Power connector
WiFi	Wifi 5, 2.4G/5G Dual-band, IEEE802.11 a/b/g/n/ac
Remote Controller	Support

Others

Installation Method	Support desktop placement, wallmounting and TV-mounting etc.
Supplied Cables	USB/HDMI Cable
Safety Protection	Anti-theft lock

Generic Spec

Power Supply	DC 12V, 5A(Max.)
Operating Temperature	0° C ~ 40° C
Storage Temperature	-40° C ~ 60° C
Dimensions(W × D × H)	600 × 135 × 117mm (with bracket)
Net Weight	2.5kg

Interface Diagram

