All-in-One Video Bar

Dual-lens 4K All-in-One USB Video Bar
UAI4M2000

Dual lens   Three in One   4K UHD   Speaker   AI Smart Tracking

4K USB dual-lens video bar, microphone, speaker and camera all-in-one design,equipped with an high quality 4K AF lens and a fixed lens,impressive video and audio performance.Built-in advanced video and audio technology,support AI noise reduction and multiple smart tracking modes , provide high quality A/V experiences,interactive and seamless communication for end users.

Features

▼ 4K UHD
Use a high -quality 1/2.5 inches UHD CMOS sensor with 8.29 million pixels. Support max 4K60fps image output and multiple lower resolutions like 1080p/720p.

▼ 71°Wide-angle Lens + 12×Optical Zoom
4K optical lens, support max 12× optical zoom and 71 ° horizontal field of view.

▼ Dual Lens Integrated Design
Integrated 4K close-up UHD camera, 4K panoramic UHD camera, beamforming microphone, full frequency speaker in one design, reducing wiring, making video communication easier.

▼ Close-up Camera Electric Pan Tilt
Built-in self-developed electric mechanical platform, with a horizontal rotation range of ± 170 ° and a rotation speed range of 1.7 °~76 °/s; The vertical rotation range can reach 0.5 °~15 °/s.

▼ Ultra Wide-angle Panoramic Detection
121 degree ultra wide angle panoramic camera, providing wide field of view detection; Optional wall mount bracket and TV bracket, flexible to adapt to various installation scenarios.

▼ PnP
Connection to PCs or commercial large screens is realized through PnP USB ports; the out-of-the-box mechanism helps reduce wiring and offers easy-to-handle video communication, thereby lowering the user thresholds.

▼ Bluetooth 5.0
Using Bluetooth 5.0 technology, compared with the previous generation technology, the transmission speed is increased by 2 times, and the transmission distance is increased by 4 times. Better transmit the high-quality audio between mobile phone and tablet devices to achieve the wireless Bluetooth streaming.

▼ Speaker Phone
Mobile phones and other devices can connect to this device via Bluetooth and use it as Bluetooth microphone and loudspeaker, and to connect phone calls to audio and video conferences.

▼ Wireless Screen Projection
Equipped with a built-in WiFi module, it supports wireless screen projection from the computer to the device for HDMI local display or remote screen sharing through USB transmission.

▼ Intelligent Analysis
Built-in intelligent analysis algorithm, voice recognition, automatic selection of attendees, automatic tracking of speakers, and switching of speaker screens; Supports picture in picture, providing close-up and panoramic views.

▼ Beamforming Microphone
Built-in beamforming (BF) microphone, pickup distance is 6m; the low-distortion transverse beamforming algorithm guides the microphone to speaker for better sound effect and make communication more clear, full and true.

▼ Audio 3A Algorithm
The built-in audio 3A algorithm (AEC/AGC/ANS) and full-duplex mode meet the communication requirements of various rooms; people who sit at the conference table, sit or stand next to you can talk comfortably and clearly.

▼ Full-Frequency Speaker
The acoustically designed high-fidelity speaker minimizes interference and offers extraordinary sound effects.

▼ Rich Interfaces
Supports multiple interface types such as USB3.0, HDMI, RJ45, etc. USB3.0 supports the transmission of ultra high definition audio and video signals.

▼ Easy to Deploy
Flexible installation such as desktop, wall-mount, and TV/display mount are available for quick install and deploy in a crowded conference room.

Product Specification

▼ Camera Spec of Close-up Camera

Signal System	4KP60/50/30/25, 1080P60/5030/25, 720P60/50/30/25 etc
Sensor	1/2.5 inches, CMOS, Effective Pixels: 8.29 MegapixelsCMOS
Focal length	12×, f=4.4 ~ 51.1mm, F1.8~2.6
Horizontal FOV	70.1°~7.4°
Vertical FOV	40.7° ~4.2°
Pan Angle	±170°
Tilt Angle	-30° ~ +30°
Pan Speed	1.7° ~ 76° /s
Tilt Speed	0.5° ~ 15° /s
Image Flip	Support
Image Freeze	Support
Preset Position	255
Preset Accuracy	0.1°
PTZ	Support
AF	Support
White Balance	Auto, Indoor, Outdoor, One Push, Manual
Backlight Compensation	Support
Digital Noise Reduction	2D&3D Digital Noise Reduction
SNR	≥55dB

▼ Camera Spec of Panoramic Camera

Signal System	4KP60/50/30/25 , 1080P60/5030/25 , 720P60/50/30/25 etc
Sensor	1/2.5 inches, CMOS, Effective Pixels: 8.29 MegapixelsCMOS
Lens	Focal Length: 2.8mm (HFOV) 110° (DFOV) 121° (VFOV) 75°
EPTZ	Support
White Balance	Auto
Backlight Compensation	Support
Digital Noise Reduction	2D & 3D Digital Noise Reduction
SNR	≥55dB

▼ Audio Features

Speaker	2
Microphone Array	6 analog silicon microphones, beamforming microphones, pickup distance of 8 meters
Audio 3A Algorithm	Support
Sampling Rate	Mic 32K，Speaker 48K

▼ USB Spec

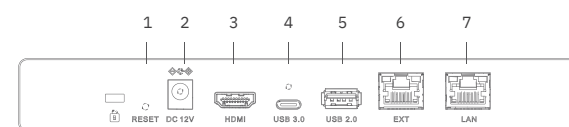|	
Operating System Supported	Windows ® 7 (only supports 1080p and below), Windows 8.1, Windows 10 or higher; MacOS ™ 10.10 or higher; Google ™ Chromebook ™ Version 29.0.1547.70 or higher; Linux (requires support for UVC)
Configuration Requirements	2.4 GHz Intel ® Core 2 Duo processor or higher; 2GB memory or higher; USB 2.0 interface (4K requires USB 3.0)
Color System / Compression	MJPEG / YUY2
USB Video Communication Protocol	UVC 1.1、UAC 1.0
UVC PTZ Control	Support（ePTZ）

▼ I/O

USB Interface	1 × USB 3.0，type-C 1 × USB 2.0，type-A
HDMI Interface	1 × HDMI
Network Interface	1 × RJ45，Connect to the network port expansion microphone and support PoE power supply; 1 × RJ45，10/100M adaptive Ethernet port, supporting network transmission of audio and video
Power Interface	DC 12V
Bluetooth	Support
Remote Control	Support

▼ Generic Spec

Safety Protection	Kingston anti-theft lock socket
Power	TBD
Operating Temperature	0°C ~ 40°C
Storage Temperature	-40°C ~ 60°C
Dimension	599.7mm (W) × 128.5mm (D) × 198.2mm (H)
Net Weight	TBD

Interface Diagram

1   2   3   4   5   6   7

RESET   DC 12V   HDMI   USB 3.0   USB 2.0   EXT   LAN

1 —— RESET   5 —— USB 2.0
2 —— DC 12V   6 —— Ext Microphone
3 —— HDMI   7 —— LAN
4 —— USB 3.0