4K All-in-One USB Video Bar

RB10

20MP		AI		
20 Megapixel	Micro-Movement PTZ	AI-assisted shooting	BYOD	All-in-one

The RB10 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.

SPECIFICATIONS

▼ CAMERA SPEC

Signal System	4KP30,1080P30,720P30 etc.
Sensor	1/1.8 inches, CMOS, Effective Pixels: 20 Megapixels
Lens	120° (DFOV) ,105° (HFOV) ,5x Digital zoom,Horizontal/pitch ±15°
PTZ	Mechanical PTZ (MPTZ) + e-PTZ (EPTZ)
Digital Noise Reduction	2D & 3D Digital Noise Reduction
SNR	≥ 55dB
Backlight Compensation	Support

▼ USB SPEC

Type of Connection	USB 3.0, downward compatible with USB 2.0
Color System / Compression	H.264 / YUY2 / MJPEG
USB Audio	32K sampling rate, UAC 1.0 support
USB Video Communication Protocol	UVC 1.1
UVC PTZ Control	Support(ePTZ)

▼ AUDIO SPEC

Full-frequency Speaker	96 dB SPL at 0.5 m
Microphone Array	Beamforming microphone with 6m pickup distance
Expansion MIC	Support (Optional)

▼ OTHERS

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

▼ I/O

USB 3.0	1 × USB3.0,Type-C
HDMI	1 × HDMI
USB 3.0	1 × USB3.0, Type-A
Network Interface1	1 × RJ45:10M/100M/1000M adaptive Ethernet (Optional)
Network Interface2	1 × RJ45:Connected to expansion mic, support POE
Power	1 × Power connector
WiFi	Wifi 5
Remote Controller	Support

▼ GENERIC SPEC

Power Supply	DC 12V,5A (MAX)
Operating Temperature	0° C ~ 40° C
Storage Temperature	-40° C ~ 60° C
Dimension	600mm (W) × 135mm (D) × 117mm (H)
Net Weight	2.5 Kg

FEATURES

▼ ULTRA-HIGH-DEFINITION IMAGE QUALITY

Equipped with a high-quality UHD CMOS sensor of 1/1.8 inches and 20 megapixels, it can output 4K (3840x2160) ultra-high-definition resolution images and is backward compatible with resolutions such as 1080P and 720P.

▼ 120° ULTRA-WIDE FIELD OF VIEW

The lens supports a 120° wide field of view (105° horizontal field of view), with 5x digital zoom, clearly capturing every corner of the meeting room. It features a ±15° mechanical pan-tilt.

▼ AI-POWERED INTELLIGENT CAMERA TECHNOLOGY

AI technology recognizes the number and position of participants in the meeting room and automatically adjusts the camera angle for the best composition. It also identifies the speaker's voice source and quickly focuses and tracks their movements.

▼ SMART GALLERY

Featuring AI algorithms for heads, faces, and human shapes, it can automatically switch to multi-split screen layouts based on the number of participants, extracting and evenly arranging close-ups of each participant. This allows remote attendees to clearly see everyone, making the communication in meetings more vivid and natural.

▼ WIRELESS CONTENT SHARING AND BYOM

Equipped with a built-in 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 wireless screen mirroring from computers to the device, allowing for local or remote meeting screen sharing without the need for cables.

▼ CLEAR AUDIO CAPTURE UP TO 6M

The built-in beamforming microphone automatically locates the speaker's sound source and adjusts to precisely capture audio, ensuring consistent and balanced audio pickup. With audio 3A processing algorithms, the clear audio pickup range can reach up to 6 meters.

▼ POE CASCADED AUDIO CAPTURE (OPTIONAL)

Equipped with a POE-powered network port, it supports cascading three RM702 array microphones, which can uniformly cover larger meeting room scenarios, providing each participant with equal and consistent audio pickup effects.

▼ FULL-RANGE SOUND

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.

INTERFACE

1	DC 12V
2	USB 3.0
3	USB 3.0
4	HDMI
5	EXT
6	LAN

1	2	3	4	5	6
DC 12V	USB 3.0	USB3.0	HDMI OUT	EXT	LAN