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## 4K Videobar with PTZ Camera

## Key Features



The **4K Videobar with PTZ Camera** is designed specifically for medium to large corporate meeting spaces, integrating dual-lens ultra-high-definition audio and video capabilities. It features a 4K ultra-high-definition panoramic and close-up camera system, a digital microphone, and a full-range speaker in a unified design, simplifying wiring and enabling easy installation. Powered by advanced built-in AI video processing algorithms, it automatically adjusts camera framing based on meeting dynamics to deliver an optimized collaboration experience.

### Dual-Lens Integration

This system features a dual-lens design with both panoramic and close-up lenses equipped with 4K ultra-high-definition UHD CMOS sensors, delivering clear and detailed images. The panoramic lens offers a wide 117° angle for an expansive field of view, while the close-up lens features a 70 ° wide angle and 12x optical zoom, supported by a ±140 ° rotating mechanical pan-tilt head to accurately capture distant meeting details.

### All-in-One Integration

The device integrates a 4K panoramic camera, a 4K close-up camera, a digital microphone array, and a full-range speaker into a single unit, achieving high integration with minimal cabling. This streamlined setup ensures a professional audio-visual experience for meetings with ease of deployment.

## Key Features

### Group Framing

Equipped with facial, human shape recognition, and intelligent framing algorithms, it can identify the number of participants and their positional changes, automatically moving the lens and adjusting the focus to achieve intelligent composition and optimal framing.

### Speaker Tracking

The built-in sound source localization algorithm automatically directs the camera towards the speaker when someone is talking, presenting a close-up in the center of the screen, delivering a "face-to-face" communication experience.

### 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.

### Presenter Tracking

The speaker features built-in gesture, ReID, and ReFace track and capture shots as the speaker moves. recognition technologies, allowing it to activate tracking mode with simple gestures. The AI algorithm accurately identifies body shape and face, enabling the close-up camera to automatically.

### 8-Meter Audio Capture

The built-in beamforming microphone automatically locates the source of the speaker's voice and adjusts to precisely capture it, ensuring consistent audio pickup. Coupled with audio 3A processing algorithms, the device offers audio capture up to 8 meters, meeting the needs of medium to large conference rooms.

### Full-Range Stereo 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.

## General Specifications

### ▼ Close-up Camera

Signal System	4KP30, 1080P30, 720P30 etc.
Sensor	1/2.5 inches, CMOS, Effective Pixels: 8.29 Megapixels CMOS
Lens	12X Optical Zoom
Focal length	f=4.4~51.1mm, F1.8~2.6
Horizontal FOV	70.1° ~7.4°
Vertical FOV	40.7° ~4.2°
Pan Angle	-90° ~ +90°
Tilt Angle	-23° ~ +23°
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

## General Specifications

### ▼ Panoramic Camera

Signal System	4KP30, 1080P30, 720P30, 640*360P30 etc.
Sensor	1/2.82 inches, CMOS, Effective Pixels: 8.51 Megapixels CMOS
Lens	Focal Length: 2.8mm, DFOV: 107°, HFOV: 110°, VFOV : 74.6°
EPTZ	Support
White Balance	Auto
Backlight Compensation	Support
Digital Noise Reduction	2D&3D Digital Noise Reduction
SNR	≥ 55dB

### ▼ Audio Spec

Speaker	2 full-range speakers, individual output power: 8W
Microphone Array	6 analog silicon microphones, beamforming microphones, pickup distance of 8 meters
Audio 3A Algorithm	Support
Sampling Rate	Mic 48K, Speaker 48K
Extended MIC	Supports DMIC interface to extend digital microphone

### ▼ 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)
Connection Type	USB 3.0, backward compatible with USB 2.0
Color System / Compression	H.264 / MJPEG / YUY2
USB Video Communication Protocol	UVC 1.1, UAC 1.0
UVC PTZ Control	Support (ePTZ)

### ▼ In/Out

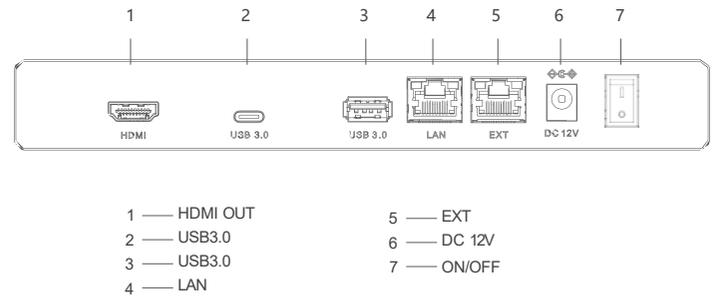
USB 3.0	1 × USB 3.0, Type-C, Support audio/video transmission and firmware upgrade
HDMI	1 × HDMI OUT; 1 × HDMI IN (optional)
USB 3.0	1 × USB 3.0, Type-A, Connecting a USB wired extension mic
Network Interface1	1 × RJ45, Connect to the network port expansion microphone and support PoE power supply
Network Interface2	1 × RJ45, 10/100/1000M adaptive Ethernet port, supporting network transmission of audio and video
Power Interface	DC 12V
BYOM	Supports BYOM wireless transmission and BYOD wireless screen casting function (requires additional casting device)
Remote Control	Support

## General Specifications

### ▼ Generic Spec

Safety Protection	Kingston anti-theft lock socket
Power	DC 12V
Operating Temperature	0° C ~ 40° C
Storage Temperature	-40° C ~ 60° C
Dimension	Without Stand: 600mm (W) x 1271mm (D) x 1821mm (H)  With Stand: 600mm (W) x 1271mm (D) x 2171mm (H)
Net Weight	TBD

## Interface Diagram



## Ordering Information

4K Videobar with PTZ Camera : PPL-INVC-4K-SB

## SALES AND INQUIRIES

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