PeopleLink 4K AF Camera Soundbar 20MP

The 4K AF Soundbar 20MP 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.

Key Features

Integrated Design

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.

4K UHD

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 (105° 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-Assisted Shooting

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.

Smart Gallery

AI-driven algorithms automatically adjust the multi-split screen layout based on the number of participants, capturing close-ups of each and arranging them for clear, vivid communication

6m Sound Pickup

The beamforming microphone uses a low-distortion lateral beamforming algorithm to directly target the speaker, ensuring balanced audio pickup. The audio 3A algorithm suppresses noise and reverberation, with an range of up to 6 meters.

PoE Cascaded Audio Capture

Equipped with a POE-powered network port, it supports cascading three M702 array microphones, which can uniformly cover larger meeting room scenarios, providing each participant with equal and consistent audio pickup effects.

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.

Wired & Wireless 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

General Specifications

▼ Camera Spec

Signal System	4KP30，1080P30，720P30 etc.
Sensor	1/1.8 inches, CMOS, Effective Pixels: 20 Megapixels
Zoom	5x Digital zoom,
FoV	120º (DFOV), 105º (HFOV),
Lens	Horizontal/pitch ±15º
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	An 8w full-range speaker
Microphone Array	4 beamforming microphones with 6m pickup distance
Expansion MIC	Supports up to 3 microphones
Audio Algorithm	AI Noise Reduction

▼ 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 Communication Protocol	UVC 1.1
UVC PTZ Control	Support（ePTZ）
Color System / Compression	MJPEG / YUY2 / H.264

General Specifications

▼ I/O

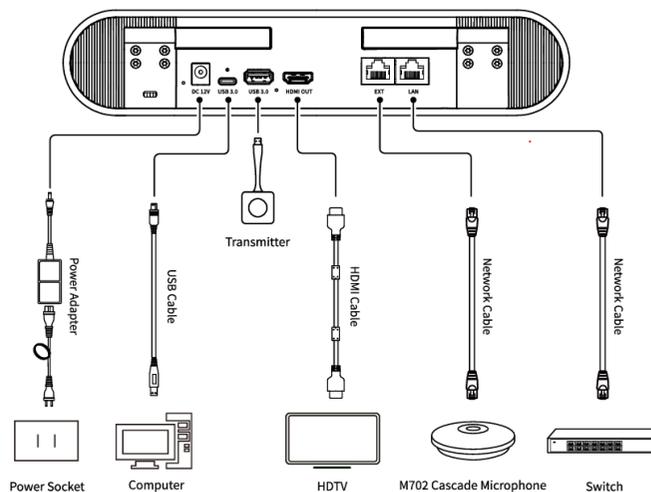| USB 3.0	1 × USB3.0,Type-A, female 1 × USB 3.0, Type-C, female connector, supports audio and video transmission, supports firmware upgrade
HDMI	1 × HDMI OUT；1 × HDMI IN（optional）
Network Interface1	1 × RJ45:10M/100M/1000M adaptive Ethernet
Network Interface2	1 × RJ45:Connected to expansion mic, support POE
Power	1 × Power connector
WiFi	Wi-Fi 5 supports wireless screen projection and BYOM mode (requires additional device connection)
Remote Controller	Support

▼ Others

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

▼ Generic Spec

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

Connectivity Diagram

Power Adapter USB Cable Transmitter HDMI Cable Network Cable Network Cable

Power Socket Computer HDTV M702 Cascade Microphone Switch

Application Scenarios

| Meeting room | Conference room | Meeting room / Training room |
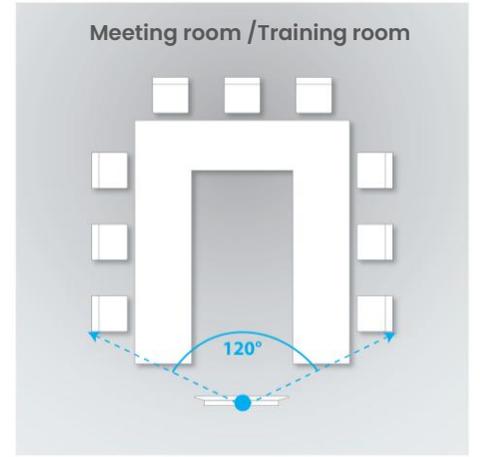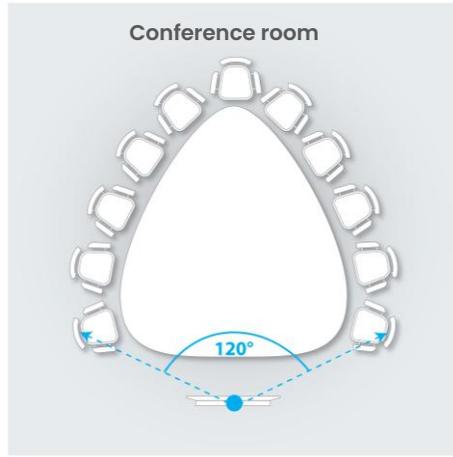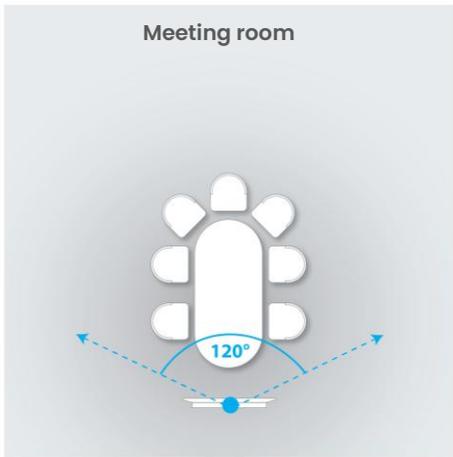
Disclaimer :- Room setup diagrams are provided for reference only. Actual room setup and size may vary as per requirements.

Ordering Information

PeopleLink 4K AF Camera-Soundbar 20MP : PPL-PVC-PCS-2K

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