SILEX

Silex Eye-Clarity VMK 210

All-in-one AI & voice tracking BYOD/BYOM video bar

The VMK 210 is a USB video bar designed for small to medium-sized enterprise meeting spaces. It includes a 4K UHD camera, a built-in beamforming digital microphone array, and a full-range speaker and wireless content sharing and connectivity (BYOD and BYOM). The 20-megapixel video resolution offers a clear panoramic view and individual close-ups of the meeting. It also features AI video processing algorithms for efficient remote communication and collaboration.

The camera automatically detects, centers, and frames all the participants whenever they enter or leave the room, always offering an optimal capture of the meeting space. Silex Eye-Clarity VMK 210 localizes and frames the sound source, offering an accurate voice tracking experience and Smart Gallery views. It also integrates the "Bring Your Own Device" (BYOD) and "Bring Your Own Meeting" (BYOM) functions allowing wireless content mirroring/ sharing of participants laptop onto the conference room main display, and full wireless connectivity between the presenter and the video bar, removing the need for USB, HDMI, and audio cables in the room. Compatible with any videoconferencing platform, it is an easy plug and play device to use for your video collaboration needs.

20MP UHD	Micro PTZ	AI-Assisted Functions	BYOD

Main Features

4K UHD:

Equipped with a 4K UHD CMOS sensor of 1/1.8 inches and 20 million effective pixels, it outputs 4K (3840x2160) UHD resolution images and is backward compatible with resolutions such as 1080P and 720P.
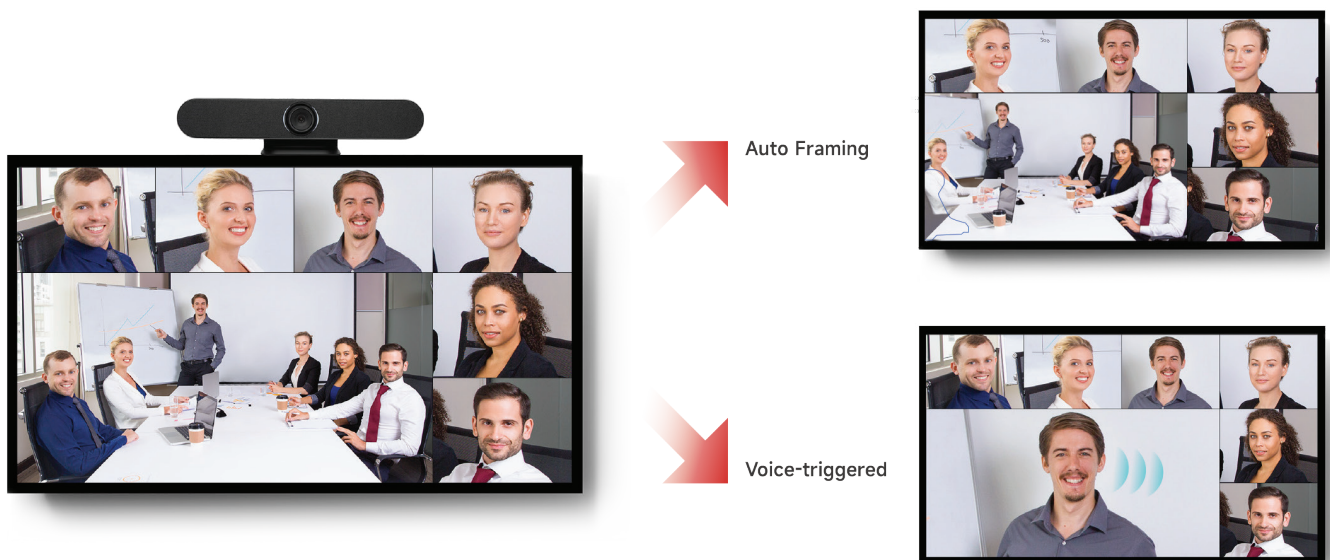
114° Field of View

The lens supports a 114° wide FoV with 5x digital zoom, clearly capturing every corner of the meeting room. It also features a ±15° PTZ, ensuring that all participants are included regardless of their position.

AI-Assisted functions

The video bar integrates multiple recognition algorithms, including head, facial, human figure, and sound localization. It can identify the number of participants and their position changes, automatically adjusting the camera to capture the optimal frame, significantly enhancing meeting efficiency.
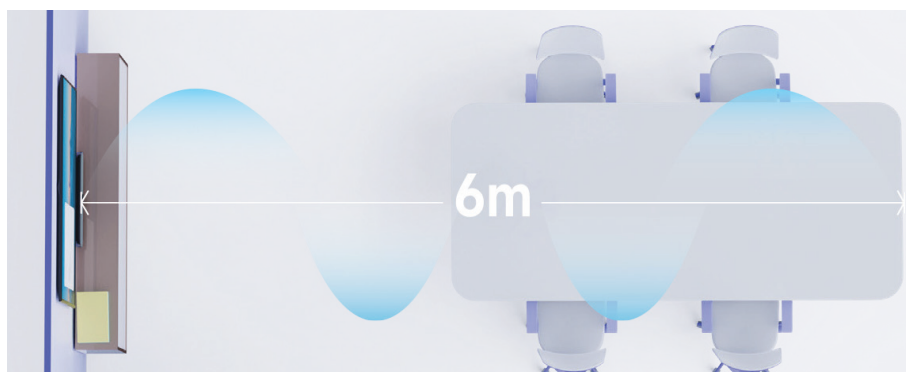
Smart gallery

The function uses AI algorithms to automatically switch to multi-split screen layouts based on the number of participants, arranging close-ups of each participant. It also includes voice activation to switch between a panoramic view and a close-up of the speaker, providing an efficient communication experience.

BYOD & BYOM

Equipped with a built-in WiFi module, it also allows participants to use their devices wirelessly to join meetings and access the integrated audio-video functions. It also supports wireless screen mirroring from computers to the device.

6m audio pickup and full-range speaker

A built-in beamforming microphone automatically locates the speaker's sound source and adjusts for precise capture, ensuring balanced and consistent audio pickup within a 6-meter range. Integrated full-range high-fidelity speakers ensure that remote audio is transmitted clearly.

Specifications

Camera:

- Video resolution: 4K@30fps, 1080P@30fps, 720P@30fps, etc.
- Sensor: 1/1.8 inches, CMOS, effective pixels: 20 million
- Optical lens: 114° (DFOV), 105° (HFOV), 5x digital zoom, ±15° pan/tilt
- PTZ: Mechanical pan/tilt (MPT) + EPTZ
- Digital noise reduction: 2D & 3D digital noise reduction
- Signal-to-noise ratio: ≥ 55dB
- BLC: Support

Input and output interface:

- USB 3.0: 1 × USB3.0, Type-C, female connector, supports audio and video transmission, supports firmware upgrade
- HDMI: 1 × HDMI, supports local video display
- USB 2.0: 1 × USB2.0, Type-A, female, connect to USB wired expansion microphone
- Network port:
  1 × RJ45, connect to network port expansion microphone, support PoE power supply
  1 × RJ45, 10/100M adaptive Ethernet port, supports network transmission of audio and video
- Power interface: 1 power interface
- Bluetooth: Bluetooth 5.3, supports Bluetooth connection to mobile phones, laptops and other devices, and transmits audio
- WiFi: WiFi 6, supports BYOM wireless transmission and BYOD wireless screen projection (transmitter button is required)
- Remote control: Support remote control

Audio:

- Full range speakers: 96 dB SPL at 0.5 m
- Microphone array: Beamforming microphone, pickup distance 6 m
- Extended MIC: Support (Optional)

USB features:

- Connection type: USB 3.0, backward compatible with USB2.0
- Color space / compression: MJPEG / YUY2
- USB audio: 32K sampling rate, support UAC 1.0
- USB video / communication protocol: UVC 1.1
- UVC PTZ control: Support (ePTZ)

Genral specifications:

- Installation: Supports multiple installation options such as desktop, wall, TV, etc.
- Security: Anti-theft lock jack
- Power supply: DC 12V, 2A (MAX)
- Operating temperature: 0°C ~ 40°C
- Stored temperature: -40°C ~ 60°C
- Dimensions (L x H x D): 600mm*135mm*117mm
- Net weight: 2.5 Kg

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