



Silex Eye-Clarity VMK 220

All-in-one Dual-Cam voice tracking video media kit



Silex Eye-Clarity VMK220 is an all-in-one Dual-Cam video bar with embedded speakers and microphones and wireless content sharing and connectivity (BYOD and BYOM). It is designed to fit different working environments and conferencing needs. With its combination of 2 cameras (ultra-wide and 12x PTZ) and its 8m audio pick up range, it is suitable for medium to large conference rooms.

With its Intelligent Auto-framing, Voice tracking, Smart Gallery views, and Multi-Camera Intelligent Director AI functions, it offers a very flexible video coverage of the meeting area. 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. With its smooth PTZ operation, Silex Eye-Clarity VMK220 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.

With Silex Eye-Clarity VMK220, experience the real large-scale conference room audio, video and wireless presentation quality in medium to large-sized conference rooms.

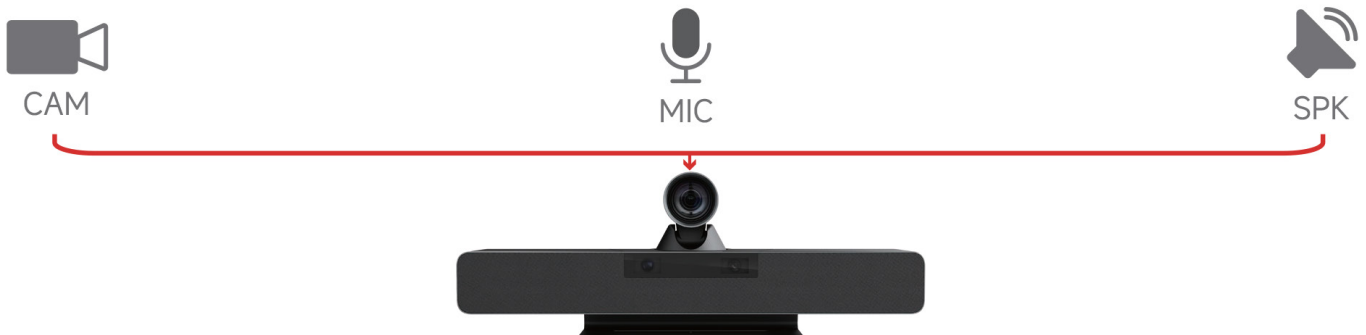
Main Features

Dual-Camera Integration:



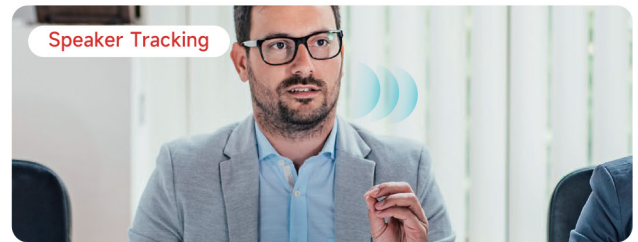
This system has a dual-camera design, featuring one ultra wide-angle camera and another 12x motorized PTZ close-up camera, both equipped with 4K UHD CMOS sensors for clear and detailed images. The panoramic camera has a 117° FoV, while the 12x PTZ close-up camera features a 70° FoV and 12x optical zoom, with a smooth motorized $\pm 90^\circ$ PTZ motor allowing to capture the smallest meeting details in large conference rooms.

All-in-One Design:



The all-in-one Video bar integrates a 4K panoramic camera, a 4K close-up 12x PTZ camera, 6 digital microphones array, a full-range speaker, and BYOM and BYOD wireless connectivity function achieving high integration with minimal cabling. This streamlined setup ensures a professional audio-visual and wireless presentation experience.

AI-Assisted Functions:



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

Smart Gallery:



Auto Framing



Voice-triggered



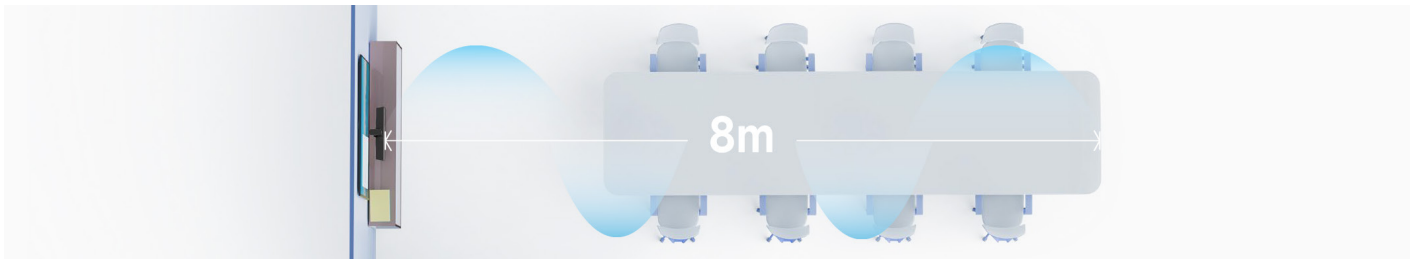
The AI algorithms for human facial and figures can automatically adjust the screen layout based on the number of participants, capture close-up images of each person, and arrange them evenly, ensuring everyone is visible during conferences. Additionally, when participants speak, the edges of their close-up images change color and flash to attract attention, making communication more effective.

Multi-Camera Intelligent Director (optional):



The camera can be used alone in a meeting, or as a front camera, forming an audio and video collaborative solution with an optional desktop 360° panoramic camera. Equipped with an AI smart director, it can automatically switch between the front view and the multi-angle view of the participant, bringing a realistic communication experience at any time.

8m Audio Pickup:



The device features a built-in beamforming 6 digital microphones array that automatically locates the speaker's sound source and adjusts for precise capture, ensuring balanced and consistent audio pickup up to 8m.

Specifications

Close-up camera parameters:

- Video Resolution: 4K@30/25fps, 1080P@30/25fps, 720P@30/25fps, etc.
- Sensor: CMOS, 1/2.5 inches, 8.29 million effective pixels (3840*2160)
- Lens Focal Length: 12X, f=4.4~51.1mm, F1.8~2.6
- Horizontal Field of View: 70.1°~7.4°
- Vertical Field of View: 40.7°~4.2°
- Horizontal Rotation Range: -90° ~ +90°
- Vertical Rotation Range: 23° ~ +23°
- Horizontal Rotation Speed Range: 1.7° ~ 76° /s
- Vertical Rotation Speed Range: 0.5° ~ 15° /s
- Horizontal and Vertical Flip: Support
- Image Freeze: Support
- Number of Preset Positions: 255
- Preset Position Accuracy: 0.1°
- Mechanical PTZ: Support
- Auto Focus AF: Support
- White Balance: Automatic, Indoor, Outdoor, One-touch, Manual
- BLC: Support
- Digital Noise Reduction: 2D & 3D Noise Reduction
- Signal-to-Noise Ratio: ≥55dB

Audio:

- Speaker: 2 full-range speakers
- Built-in Microphone: 6 analog silicon microphones, beamforming microphones, pickup distance 8 meters
- Audio 3A Algorithm: Support
- Sampling Rate: Mic 32K, speaker 48K
- Extended MIC: Support

Panoramic camera parameters:

- Video Resolution: 4K@30/25fps, 1080P@30/25fps, 720P@30/25fps, 640*360@30/25fps
- Sensor: CMOS, 1/2.8 inches, 8.51 million pixels
- Optical Lens: Fixed-focus lens focal length: 2.8mm, DFOV: 117° HFOV: 108° VFOV: 74°
- EPTZ: Support
- White Balance: Automatic
- BLC: Support
- Digital Noise Reduction: 2D & 3D Noise Reduction
- Signal-to-Noise Ratio: ≥55dB

USB features:

- Supported Operating Systems: Windows® 7 (supports 1080p and below only), Windows 8.1, Windows 10 or higher, Mac OS™ 10.10 or higher, Google™ Chromebook™ Version 29.0.1547.70 or higher, Linux (UVC support required)
- Hardware Requirements: 2.4 GHz Intel® Core 2 Duo processor or higher, 2 GB RAM or higher, USB 2.0 port (4K requires USB 3.0)
- Connection Type: USB3.0, backward compatible with USB2.0
- Color Space/Compression: MJPEG/YUY2
- USB Video Communication Protocol: UVC 1.1, UAC 1.0
- UVC PTZ Control: Support

Input and output interface:

- USB 3.0: 1 × USB 3.0, type-C, Support audio/video transmission and firmware upgrade
- HDMI: 1 × HDMI, supports local video display
- USB 2.0: 1 channel, USB 2.0, 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: DC 12V
- Bluetooth: Bluetooth 5.0, supports Bluetooth connection to mobile phones, laptops and other devices, and transmits audio
- Wifi: WiFi 5, supports BYOM wireless transmission and BYOD wireless screen projection (extra screen projection button is required)
- Remote Control: Support

General specifications:

- Security: anti-theft lock socket
- Operating/Stored Temperature: 0°C ~ 40°C / -40°C ~ 60°C
- Dimensions (L x H x D): Without bracket: 600mm x 127.1mm x 182.1mm. With bracket: 600mm x 127.1mm x 217.1mm



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