



# AI-Box1 CamConnect Processor







MULTI-CAMERA







IP TO USB

The compact and cost-effective CamConnect<sup>™</sup> AI-Box1 is a powerful voice-tracking processor for Lumens PTZ cameras. Supporting multiple cameras and as many as 16 microphone arrays, AI-Box1 can transform the audio-visual experience within meeting spaces, lecture rooms and conference suites.

#### **Key Features**

- Supports up-to 4 IP cameras
- Supports up-to 16 multiple array microphones
- Supports PBP and 2x2 multiview output
- Al algorithm for people tracking and center stage



## **Voice Tracking Camera Control**

Al-Box1 matches directional audio data with preset camera positions to focus on the active speaker. If the speaker adjusts their position, the camera will intelligently correct the preset to keep the subject in the center of the frame.



## **Hybrid Audio-Visual Tracking Algorithm**

Turning a PTZ camera into an auto-tracking camera, Al-Box1 uses live data from microphones to track a presenter or teacher as they move across a stage. This makes the unit an ideal partner for lecture capture systems.



#### **Multiple Camera Auto Switch**

Al-Box1 can use up-to 4 cameras to deliver the best shooting angle, dramatically enhancing AV production and the remote meeting experience. The unit also supports multiview mode, for output of two cameras side by side (PBP) or multiple cameras in a 2x2 gallery.



## **Microphone Arrays and Digital Signal Processors**

Al-Box1 is optimized for a growing line-up of microphones from manufacturers, including Sennheiser, Shure, Yamaha and Nureva. For the latest information, please visit our website.







# **Product Specifications**

Video Input	
Maximum Supported Cameras	4xIP or 3xIP + 1xUSB
IP camera	RTSP(H.264 1080p@60/50, 720p@60/50)
USB Camera	UVC (MJPEG 1080p@30/25, 720p@30/25)
Camera Control Protocol	VISCA over IP / UVC
Video Output	
USB Device	USB 3.0 Type C, UVC
USB format	MJPEG 1080p@30/25, 720p@30/25
HDMI Output	HDMI 2.0 (GUI menu)
HDMI Output format	1080p@60/50 Hz
Other Interface	
Power	USB Type-C Power (5V, 4A)
Ethernet Port	Female RJ-45 10/100/1000 Base-T
USB 3.0 Type A (USB Host)	Supports USB Camera / Mouse / Keyboard
LED Power Indicator	Yes
Power button	Yes
Functions	
Supported Conference Software	Teams / ZoomRoom / Zoom / Google Meet
Supports Multi-array Microphones	Yes, up to 16 microphones
Supports Multi-array Microphones Voice Tracking	Yes, up to 16 microphones  Yes, with supported directional microphone arrays
Voice Tracking	Yes, with supported directional microphone arrays
Voice Tracking Webpage Configuration	Yes, with supported directional microphone arrays Yes
Voice Tracking Webpage Configuration Camera Auto Switching	Yes, with supported directional microphone arrays Yes Yes
Voice Tracking Webpage Configuration Camera Auto Switching Supports Multi-camera Control	Yes, with supported directional microphone arrays Yes Yes Yes Yes, up to 4 cameras
Voice Tracking Webpage Configuration Camera Auto Switching Supports Multi-camera Control People Tracking	Yes, with supported directional microphone arrays Yes Yes Yes, up to 4 cameras Yes
Voice Tracking Webpage Configuration Camera Auto Switching Supports Multi-camera Control People Tracking Center Stage	Yes, with supported directional microphone arrays Yes Yes Yes Yes, up to 4 cameras Yes Yes
Voice Tracking Webpage Configuration Camera Auto Switching Supports Multi-camera Control People Tracking Center Stage Multiview (Video Source Mixing)	Yes, with supported directional microphone arrays Yes Yes Yes Yes, up to 4 cameras Yes Yes Yes Yes Yes Yes Yes
Voice Tracking Webpage Configuration Camera Auto Switching Supports Multi-camera Control People Tracking Center Stage Multiview (Video Source Mixing)	Yes, with supported directional microphone arrays Yes Yes Yes, up to 4 cameras Yes Yes Yes Yes Yes Yes Over the Air (OTA)
Voice Tracking Webpage Configuration Camera Auto Switching Supports Multi-camera Control People Tracking Center Stage Multiview (Video Source Mixing) Firmware Update	Yes, with supported directional microphone arrays Yes Yes Yes Yes, up to 4 cameras Yes Yes Yes Yes Yes Over the Air (OTA) General
Voice Tracking Webpage Configuration Camera Auto Switching Supports Multi-camera Control People Tracking Center Stage Multiview (Video Source Mixing) Firmware Update Power Consumption	Yes, with supported directional microphone arrays  Yes  Yes  Yes, up to 4 cameras  Yes  Yes  Yes  Yes  Yes  Yes  Yes, Side-by-Side (PBP) / 2x2 Gallery  Over the Air (OTA)  General  20W
Voice Tracking Webpage Configuration Camera Auto Switching Supports Multi-camera Control People Tracking Center Stage Multiview (Video Source Mixing) Firmware Update  Power Consumption Operating Temperature	Yes, with supported directional microphone arrays  Yes  Yes  Yes, up to 4 cameras  Yes  Yes  Yes  Yes, Side-by-Side (PBP) / 2x2 Gallery  Over the Air (OTA)  General  20W  0~40 °C

#### I/O Connections











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