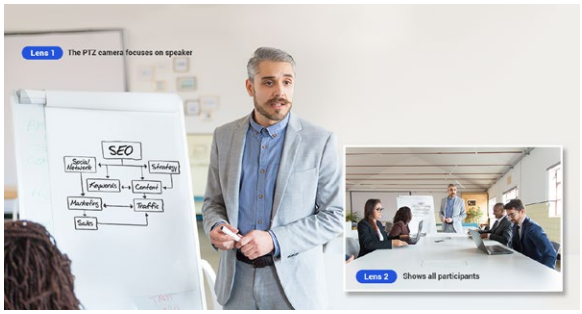
CAM550

Dual Lens Camera with AI Technology

4K dual lens camera

Capture a complete view of the room with wide-angle clarity. The CAM550 is equipped with two 4K lenses. The first is a PTZ camera with 12X optical zoom (24X total zoom) to clearly frame meeting participants in medium and large rooms. The second is an AI lens with 95 ° FOV to provide a panoramic view of the room. Picture-in-picture functions to simultaneously view the speaker and a panoramic view of the room.



Highlight participants with Smart Gallery

Clearly capture attendees with Smart Gallery, which enables AI technology to crop participant's faces and make sure everyone is looking great. You can choose between headshot and half body mode to adapt to any meeting situation. Great for collaboration or video calling.

Headshot Mode

Half-body Mode

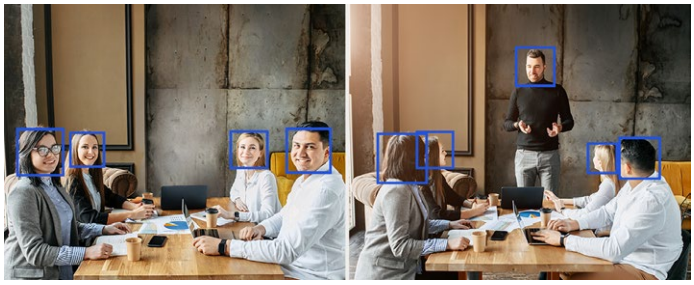
Eliminate touchpoints with gesture control

Camera can easily be controlled and enable AI functions by holding up one finger on either side of your face. Take advantage of built-in AI gesture recognition to operate the camera and eliminates touchpoints to increases meeting safety.

*Gesture controls are switched off by default. Please enable gesture controls via PTZApp 2.

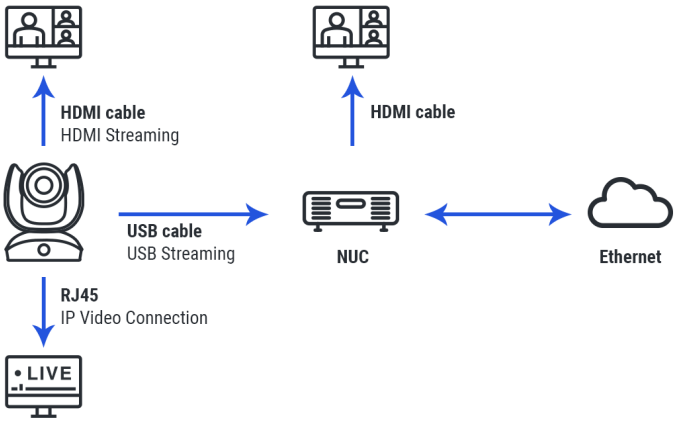
Enhance meetings with dynamic framing

Enhance meeting efficiency with dynamic framing. When newcomers walk in, the secondary AI lens springs to action to detect them, then the PTZ camera automatically re-frames participants for perfect video calling. Through fully automatic operation, this dynamic framing optimizes meetings and protects the safety of participants.



HDMI enables dual display and 3-way output

The CAM550 features an HDMI connection so you can enable a second display for virtual meetings. Simultaneously connect HDMI, USB, and IP streaming broadcasting. Simultaneous connections allow you to easily monitor your stream during recording use a local recording service to watch recordings later.



Specifications

Dual Camera

PTZ optical zoom lens

- Image sensor: Sony 4K EXMOR, crystal clear in any lighting
- Frame rates: (16:9) 4K 30fps; 1920 x 1080, 1600 x 900, 1280 x 720, 960 x 540, 848 x 480, 800 x 448, 640 x 360, at 60, 30, 15fps; (4:3) 1280 x 960, 800 x 600, 640 x 480 at 60, 30, 15fps
- 24X Zoom*: 12X optical; 2X digital zoom
- Wide field of view: DFOV 85°; HFOV 76°; VFOV 46°
- Lens focal length: 3.9mm (wide) ~ 47.3mm (tele)
- Lens F#: 1.8 (wide) ~ 2.8 (tele)
- AE, white balance: auto, manual override via PTZApp 2
- Minimum focus distance: 1.5m
- Motorized Pan & tilt: Pan: ±170°;Tilt: +90° (up) -30° (down)
- Preset number: 10 via IR remote, 128 via RS232

Secondary fixed lens (AI lens)

- Image sensor: Sony 4K EXMOR
- Frame rates and resolution set according to PTZ lens settings
- Wide field of view: DFOV 95°; HFOV 78°; VFOV 50°

*Use PTZApp 2 to set up 24X zoom
*Don't put the CAM550 on the table. This will block the view of AI lens and the AI detection function will malfunction. The suggested installation height is 1.5m away from the floor.

Innovative features

- Dynamic auto framing: secondary AI lens detects all participants, new participants trigger PTZ lens to dynamically frame all participants.
- Preset framing tracks both preset area and speaker *
- Simultaneous 3-way output: USB, HDMI and IP connections
- Gesture control provides intuitive camera controls
- HDMI Picture in Picture (PIP) function
- Smart gallery** offers visibility for individual participant in the meeting room
- Cableless access to meetings: Get rid of USB cable connections with AVer virtual USB streaming technology** (One RJ45 cable transfers IP streaming to USB.)
- Audio tracking support: Integration with 3rd party ceiling microphone (Shure/Sennheiser) via AVer Preset Link* * function.

*Make sure preset areas are within AI lens' view.
**Download PTZApp 2 to set up Smart gallery, USB virtual streaming and Preset Link functionality.

Connectivity

- USB type-B 3.1 connector, backward compatible with USB 2.0
- 12V/2A DC jack power adapter
- Mini DIN9 for RS232 in & out connection (VISCA control panel and camera daisy-chain)
- IP (RJ45)
- HDMI

HDMI & PoE

- HDMI 1.3: 1080p 30fps/ 60fps
- PoE+: 802.3at

Video Format

- YUV, YUY2, MJPEG
- Network video compression format: H.264, H.265
- Network protocol: RTSP, RTMP

USB

- 3.1 Gen 1, backward compatible with USB 2.0
- UVC 1.1 (USB video), UVC1.5*

*UVC1.5 utilizes a different platform environment and requires an extra FW upgrade. Please contact technical support for more details.

Control

- IR remote control
- VISCA/pelco P/pelco D via RS232 (128 preset points via VISCA command)
- Remote side: VISCA over IP, IP (RJ45)
- UVC plug and play
- WebUI: Browser IP access via Chrome. (Not support IE)
- OSD setting: HDMI out to TV monitor
- PTZApp 2

Power Supply

- AC 100V–240V, 50/60 Hz; Consumption: 12V, 2A
- PoE+: 802.3at

Free Applications for Meeting Collaboration (For Windows® and Mac® computers)

EZManager 2: Camera Central Management Software

- Remotely group FW/SW upgrades, control the camera, and manage settings

PTZApp 2: Camera Settings Software

- Smart gallery/Virtual USB streaming/Preset Link
- View live video, participant metrics, and meeting-interval information
- Enable Skype for Business far-end control
- Upgrade firmware automatically/manually
- Control the camera
- Set parameters and adjust the camera image
- View operation status, diagnose issues

EZLive: Broadcasting Software

- Multi-camera real-time streaming, annotating, image capturing, and video recording

Environment Data

- Operation temperature: 0 to 40°C
- Operation humidity: 20% to 80%
- Storage temperature: -20 to 60°C
- Storage humidity: 20% to 80%

Dimensions

- Package dimensions: 253(L)*253(W)*271(H) mm
- Package weight: 4.8KG
- Camera: 170.8 (L) X 190.5 (H) X 173 (D) mm/ 2.1kg
- Remote control: 200 x 50 x 121mm/90g

Package Contents

- CAM550 unit
- Power adapter (10 ft/3 m)
- USB 3.1 type-B to type-A cable (3m)
- Remote control
- Mini DIN9 to mini DIN8 RS232 adapter cable
- HDMI cable (3 m)
- Wall mount bracket and screws
- QR code card
- Tripod screw
- Drill paper

Optional Accessories

- Mini DIN8 to D-Sub9 cable
- Ceiling mount*
- Foldable TV mount
- USB 2.0 type-B to type-A cable (5 m)
- 1-Port POE+ Injector

*CAM550 is a dual lens camera and doesn't support upside-down installation. For ceiling mounting, please purchase the AVer ceiling mount.

Security and Mount

- Kensington lock
- 1/4” tripod mounting screw
- Camera wall-mount bracket included
- Optional foldable TV mount
- Optional ceiling mount

System Requirements

- Windows® 7/10
- MacOS X 10.7 or later
- Google Chromebook™ version 29.0.1547.70 or higher

Hardware Specs

- 3.2 GHz Intel® Core™ i5-4460 processor
- 4 GB RAM or more
- USB 3.1 port, backward compatible with USB 2.0

Warranty

- Camera: 3 years
- Accessories: 1 year

Compatible Applications

Zoom, Microsoft® Teams, Skype, Skype for Business, Google Meet, RingCentral, BlueJeans , Intel ® Unite™, Fuze, Adobe® Connect™, CyberLink U Meeting®, Cisco WebEx® GoToMeeting™, LiveOn, Microsoft® Lync™, TrueConf, V-Cube, Vidyo, vMix, WebRTC, Wirecast, XSplit

*For 4K UHD support, please check system/hardware requirements with your software application provider.
**Specifications may vary depending on countries and are subject to change without notice.

Front

1	PTZ lens: 12X optical zoom
2	IR sensor
3	AI lens
4	LED indicator

Back

1	Kensington lock
2	HDMI out
3	USB 3.1 type-B
4	RS232 in/out
5	LAN for IP streaming and Power over Ethernet (PoE)
6	DC 12V

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