

Lumens[®]

Your Success, Our Focus

July 2026

Solutions Introduction

Audio Visual Applications

IP solutions that deliver an exceptional user experience by seamlessly integrating Lumens products with leading AV brands.

[MyLumens.com](https://www.mylumens.com)

Lumens[®] Digital Optics Inc.,
a PEGATRON Group company,
is a leader in optical and Pro AV products.



AV Solutions

Integrated solutions that deliver an exceptional user experience

Lumens provides complete solutions with our cameras, media processors and AV over IP product range.



S01. Automated Voice Tracking



S02. BYOD & BYOM



S03. Multi-Point BYOM



S04. IP to USB



S05. Recording and Live Streaming



S06. Motion Tracking



S07. Audio Routing

S01

Automated Voice Tracking

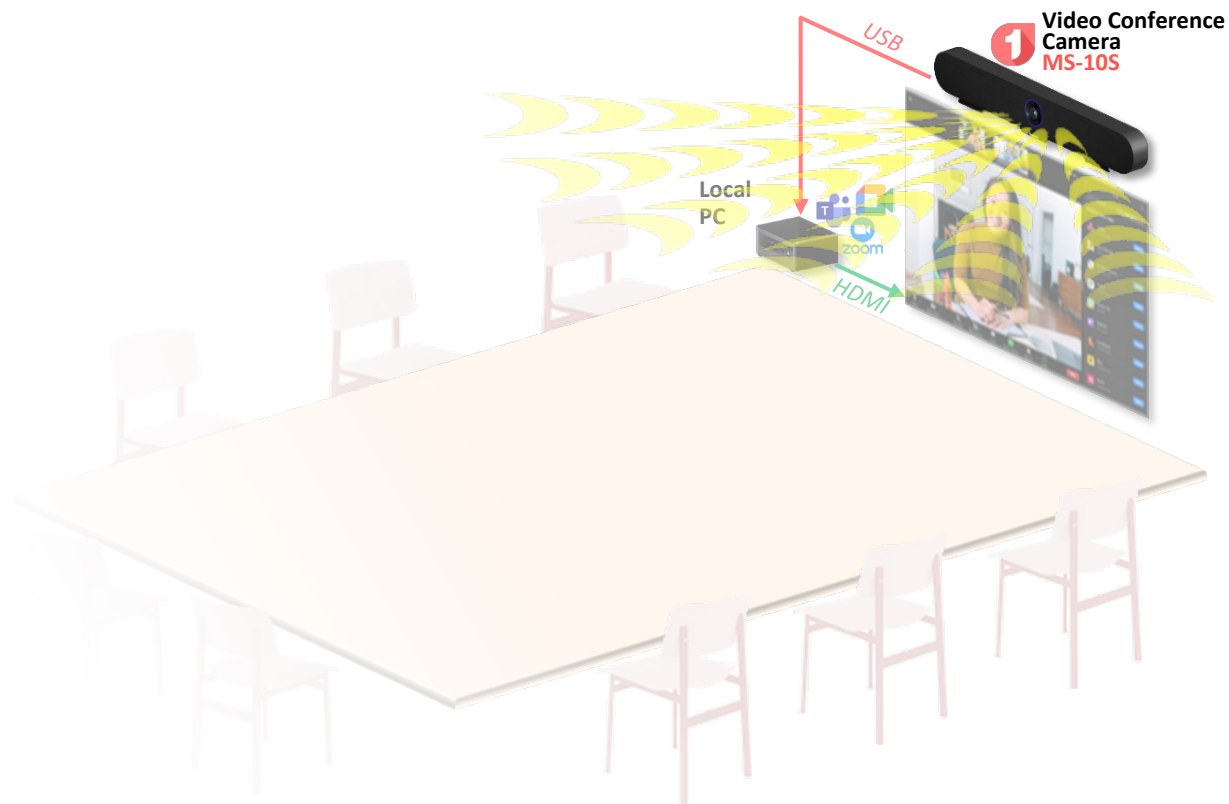
AI-based Voice Tracking Technology

What is Automated Voice Tracking?

With speaker tracking, the camera (or cameras) focus on participants in a room. By automatically moving to focus on the active voice, speaker tracking transforms the remote experience. It delivers instant meeting equity, greater engagement, and more meaningful interactions.

The Lumens CamConnect Pro is spearheading this meeting room revolution, with AI-based auto-tracking and speaker tracking technology. CamConnect Pro pairs with directional microphone arrays and desktop microphone systems to switch and focus Lumens cameras on the active speaker.

MS-10S 4K Integrated 4K Sound Bar All-in-One Tracking Upgrade



Description

MS-10S combines a 4K camera, microphone and speaker, along with an audio source locator that automatically frames the speakers.

Features

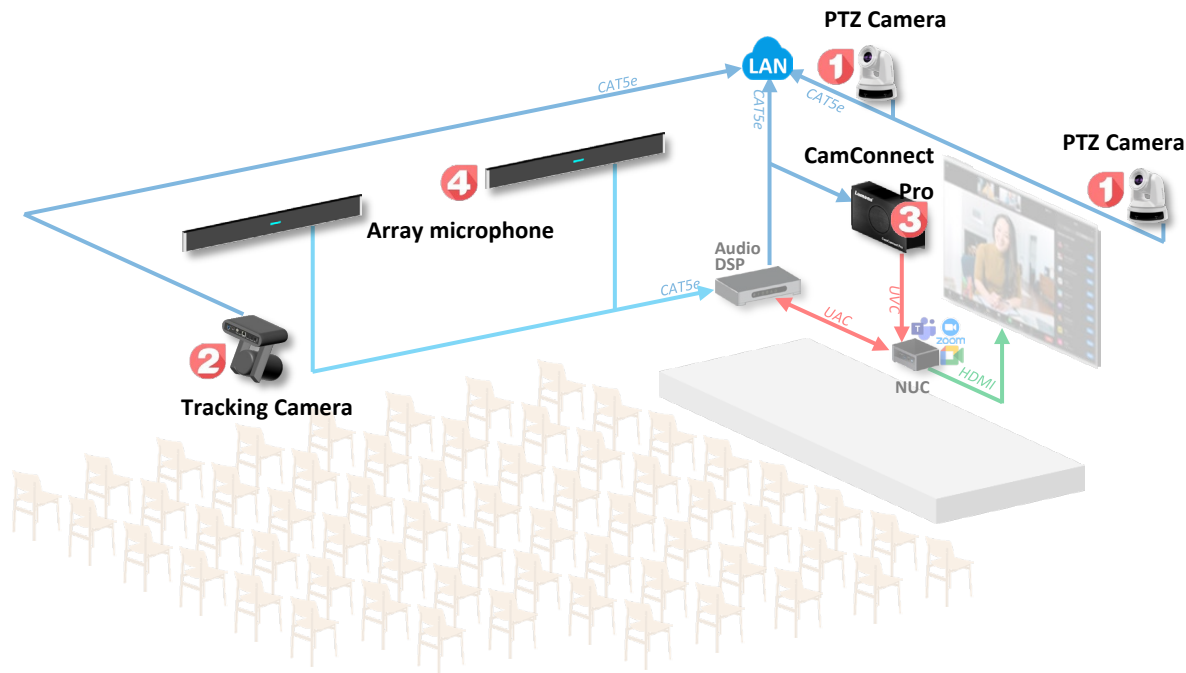
1. Suitable for small conference spaces and huddle rooms.
2. Easy to use, all-in-one solution.
3. AI automatically sets the camera position and zoom.

Products

| NO. | Product Name | Brand | Installation Location |
|-----|--------------------------------|--------|-----------------------|
| 1 | Video Conference Camera MS-10S | Lumens | Wall-Mounted |

CamConnect 100

Multi-Camera Automation with Nureva



Description

1. CamConnect Pro obtains XYZ audio positional data from the microphones.
2. CamConnect Pro controls up to 4 PTZ cameras to capture the best angles and transmits the video to the conference PC via UVC.

Features

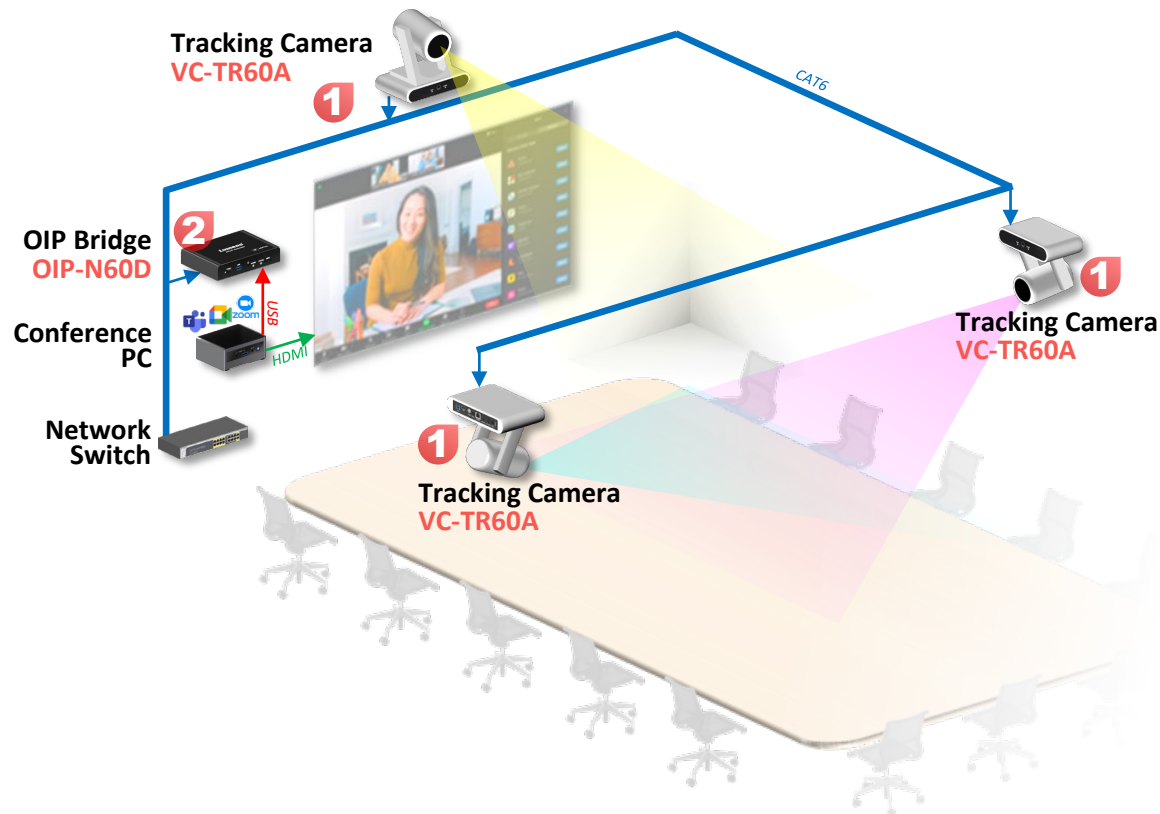
1. Ideal for large conference rooms with multiple cameras installed.
2. Supports real-time XYZ audio location information, and with Audio Zone and Camera preset positions, it is suitable for scenarios with multiple meeting participants.
3. Obtains the best shooting angles with video output to the conference PC.
4. Compared to manually controlled camera systems, AI provides considerable cost-savings.

Products

| NO. | Product Name | Brand | Installation Location |
|-----|------------------|--------|-----------------------|
| 1 | PTZ Camera | Lumens | Ceiling-Mounted |
| 2 | Tracking Camera | Lumens | Ceiling-Mounted |
| 3 | CamConnect Pro | Lumens | Rack-Mounted |
| 4 | Array Microphone | Nureva | Wall-Mounted |

VoiceConnect 100

IP-Based Voice Tracking Deployment



Description

1. VC-TR60A uses built-in voice detection to identify and frame the active speaker automatically.
2. Supports multi-camera setups with VC-TR60A cameras and the OIP-N60D decoder for smooth speaker switching.
3. Ideal for hybrid meetings, training rooms, and multi-speaker discussions.

Features

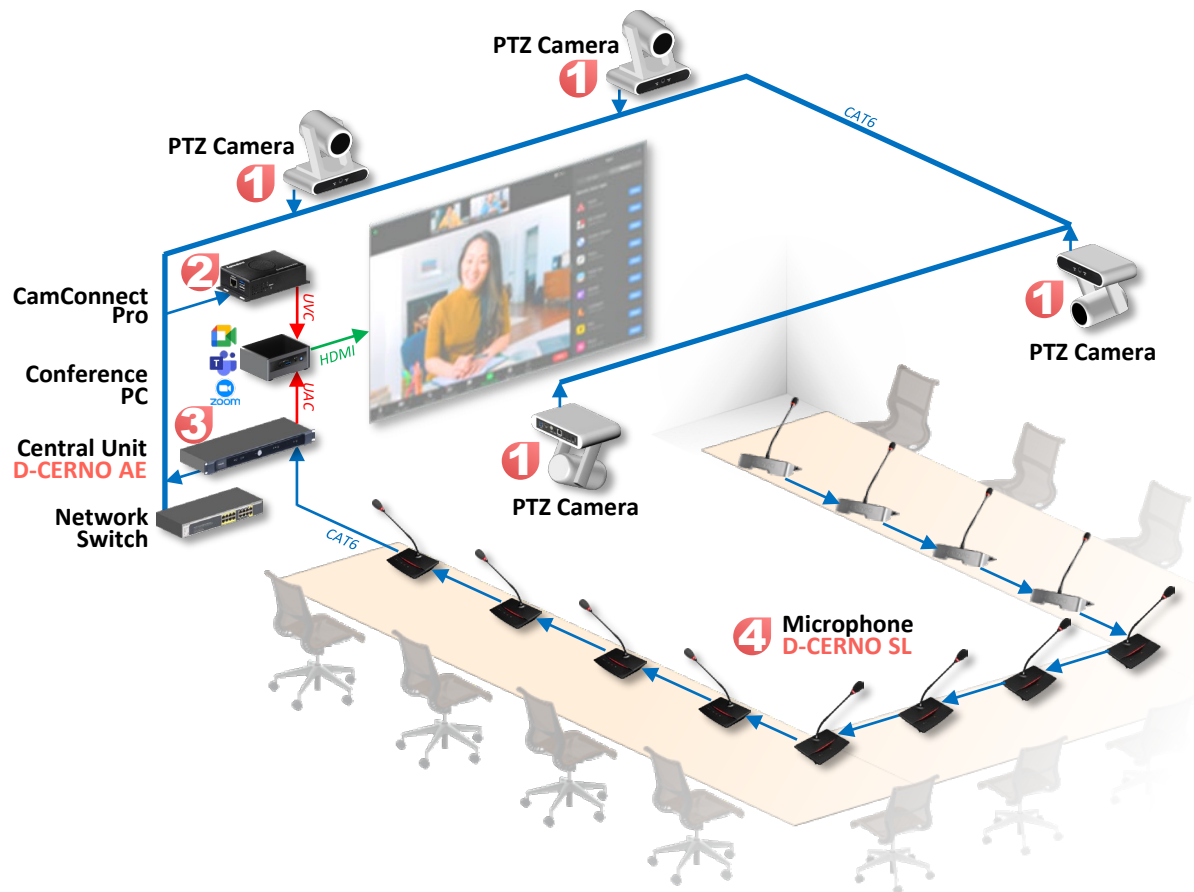
1. Deploys quickly with flexible IP-based installation across the local network.
2. AI-based, the solution runs autonomously, with the decoder outputting a Teams and Zoom-compliant video and audio stream to a BYOD laptop or meeting room PC over USB-C.
3. Works autonomously without complex integration or manual operation.

Products

| NO. | Product Name | Brand | Installation Location |
|-----|--------------------------|--------|-----------------------|
| 1 | Tracking Camera VC-TR60A | Lumens | Ceiling-Mounted |
| 2 | OIP Bridge OIP-N60D | Lumens | Rack-Mounted |

CamConnect 100

Televic Conference Video Communications System



Description

1. CamConnect Pro integrates with Televic's D-Cerno system to deliver a complete audio-visual delegate system.
2. CamConnect Pro controls up-to 4 PTZ cameras to capture the best angles and transmits the video to the conference PC via UVC.

Features

1. Designed for boardrooms and meeting spaces. Delivers unmatched meeting equity by automatically focusing on active speakers
2. Obtains the best shooting angles with output to the conference PC.
3. Compared to manually controlled camera systems, AI provides considerable cost-savings.

Products

| NO. | Product Name | Brand | Installation Location |
|-----|-------------------------|---------|-----------------------|
| 1 | PTZ Camera | Lumens | Wall-Mounted |
| 2 | CamConnect Pro | Lumens | Rack-Mounted |
| 3 | Central Unit D-CERNO AE | Televic | Rack-Mounted |
| 4 | Microphone D-CERNO SL | Televic | On the Table |



S02

BYOD & BYOM

Bring Your Own Device & Bring Your Own Meeting

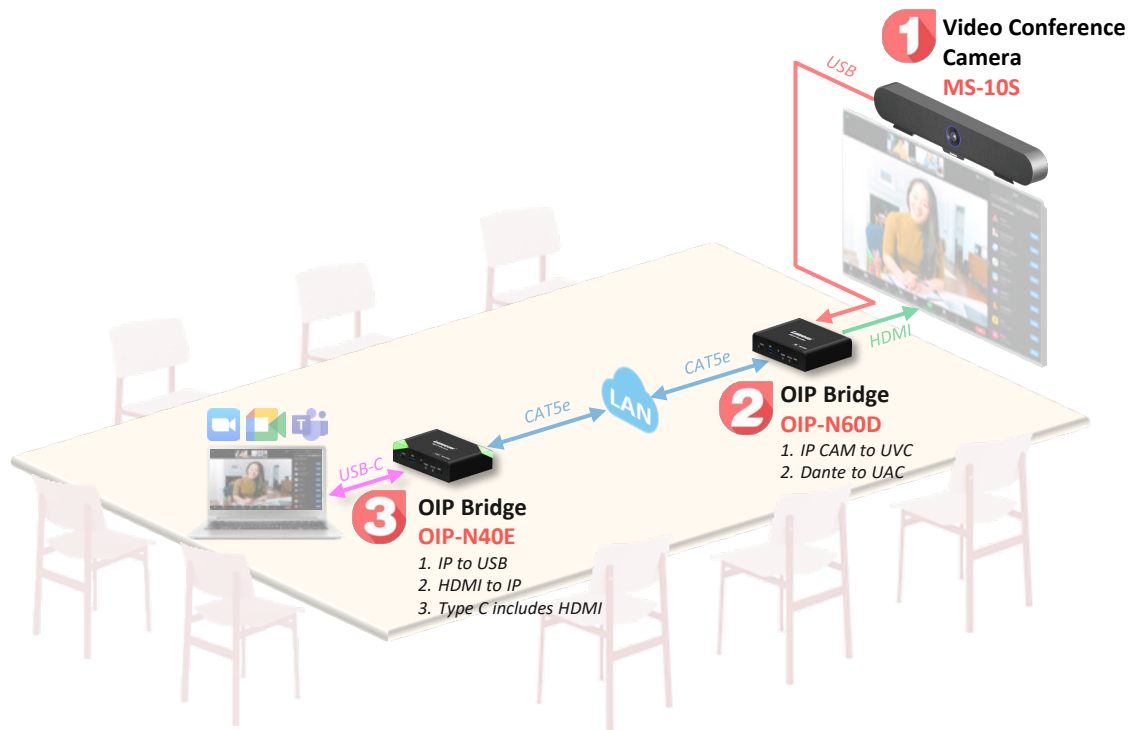
What is BYOD & BYOM?

In a BYOM meeting space, participants simply plug in their own laptop and run a video conferencing session using the room's installed AV. With BYOD, a user can share their laptop's screen to an existing conference call.

Lumens' conferencing solutions are designed for maximum flexibility. They allow the AV team to install microphones and PTZ cameras in any position for use in the meeting. And the system operates autonomously – simply turn the system on and the meeting will run with superb sound and expertly framed video.

BYOM USB Extension

Soundbar Collaboration Upgrade



Description

MS-10S is suitable for small rooms and features voice tracking and auto-framing. The OIP-N60D and OIP-N40E convert USB and HDMI to IP, with just one USB-C connection needed between the laptop and the OIP-N40E for an easy set-up.

Features

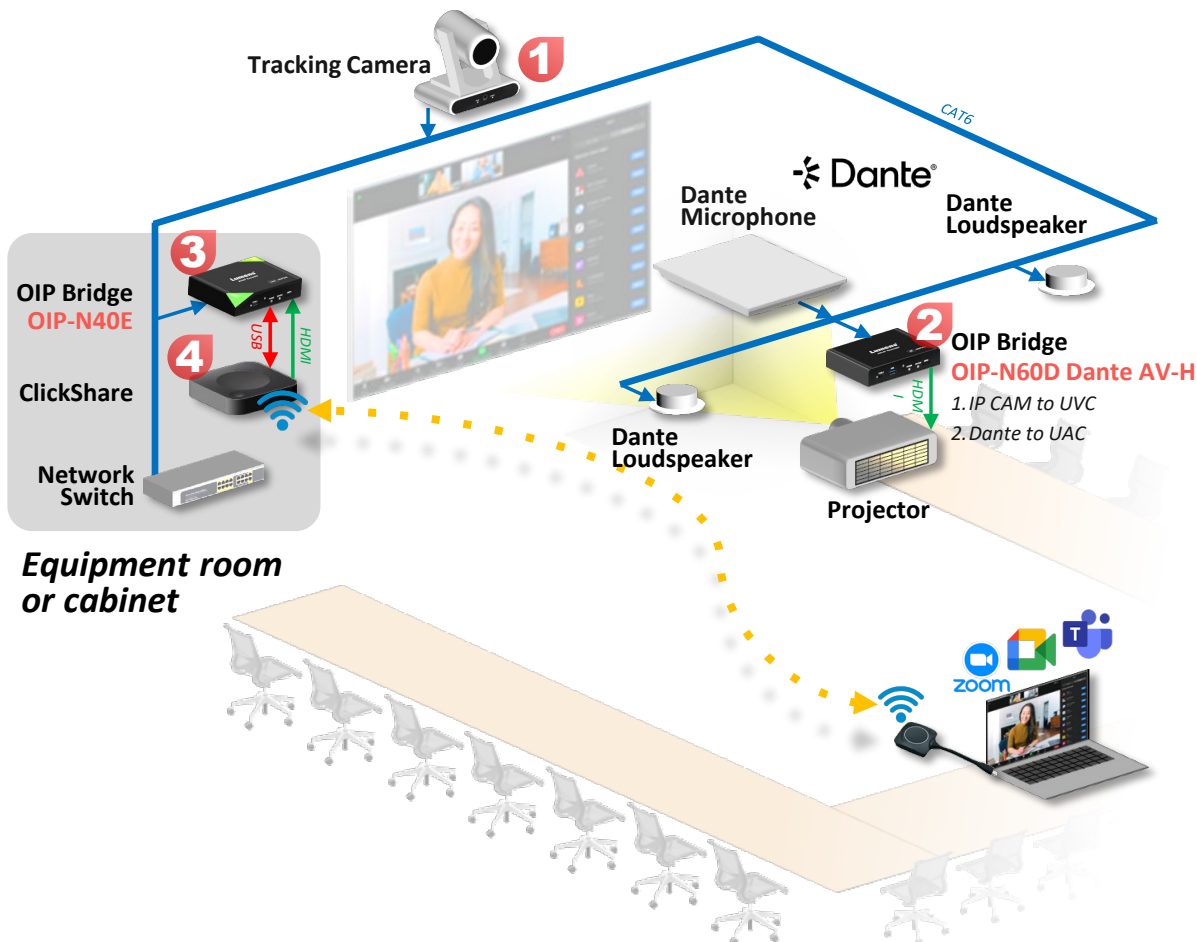
1. Suitable for small meeting spaces with an integrated 4K video soundbar, and signal transmission over the LAN.
2. Compared to traditional methods, OIP-N40E/N60D can serve as a bi-directional extender for both USB and HDMI sources.

Products

| NO. | Product Name | Brand | Installation Location |
|-----|--------------------------------|--------|-----------------------|
| 1 | Video Conference Camera MS-10S | Lumens | Wall-Mounted |
| 2 | OIP Bridge OIP-N60D | Lumens | Under the Table |
| 3 | OIP Bridge OIP-N40E | Lumens | Under the Table |

Wireless BYOM

Barco ClickShare



Equipment room or cabinet

Description

OIP-N60D Dante AV-H decodes Dante audio and IP video signals and converts them to USB-C. Barco ClickShare CX then wirelessly transmits the stream to a connected laptop.

Features

1. Suitable for hybrid meeting rooms, IP enables long-distance cabling (over 100 meters) for the flexible positioning of equipment.
2. Integrating OIP-N60D Dante AV-H with Barco ClickShare CX means decoding of audio and video IP sources and wireless connection to the BYOM laptop.

Products

| NO. | Product Name | Brand | Installation Location |
|-----|--------------------------------|--------|-----------------------|
| 1 | Tracking Camera | Lumens | Ceiling-Mounted |
| 2 | OIP Bridge OIP-N60D Dante AV-H | Lumens | Ceiling-Mounted |
| 3 | OIP Bridge OIP-N40E | Lumens | Rack-Mounted |
| 4 | ClickShare | Barco | Rack-Mounted |

S03

Multi-Point BYOM

Connect From Any Seat, At Any Time

What is Multi-Point BYOM?

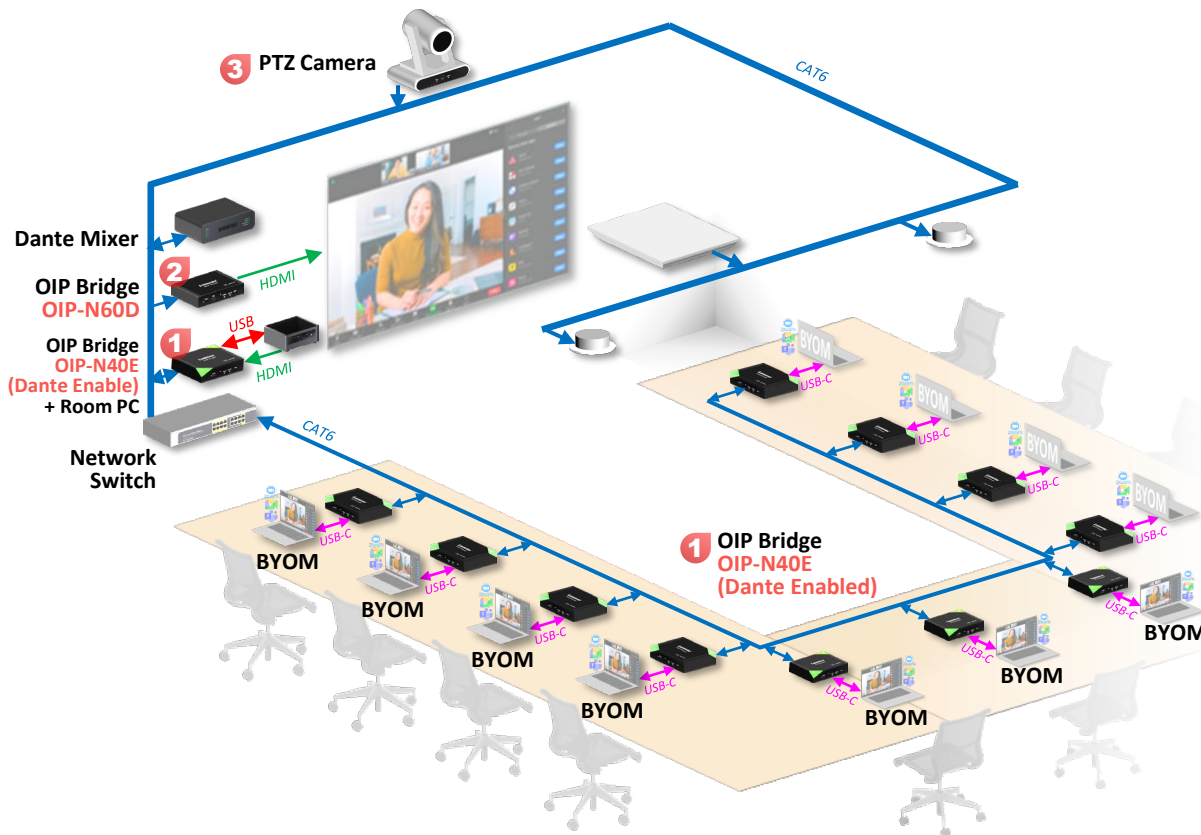
Lumens OIP connects multiple laptops, enabling users to host meetings or share content from any device while sharing the same camera, mic, and display for a flexible collaboration experience.

This unified architecture streamlines device switching and ensures a consistent AV experience across the room, making collaboration effortless regardless of where users choose to connect.



USB BYOM Bridge

Ceiling Array Multi-Point BYOM



Description

OIP Bridge units connect all laptops, enabling users to host meetings or share content from any device while using the same camera, mic, and display for a flexible collaboration experience.

Features

1. Connect from any seat, at any time – no limits, no waiting.
2. Compared to traditional methods, OIP-N40E/N60D can serve as a bi-directional extender for both USB-C and HDMI sources.
3. Automatically switch BYOM devices

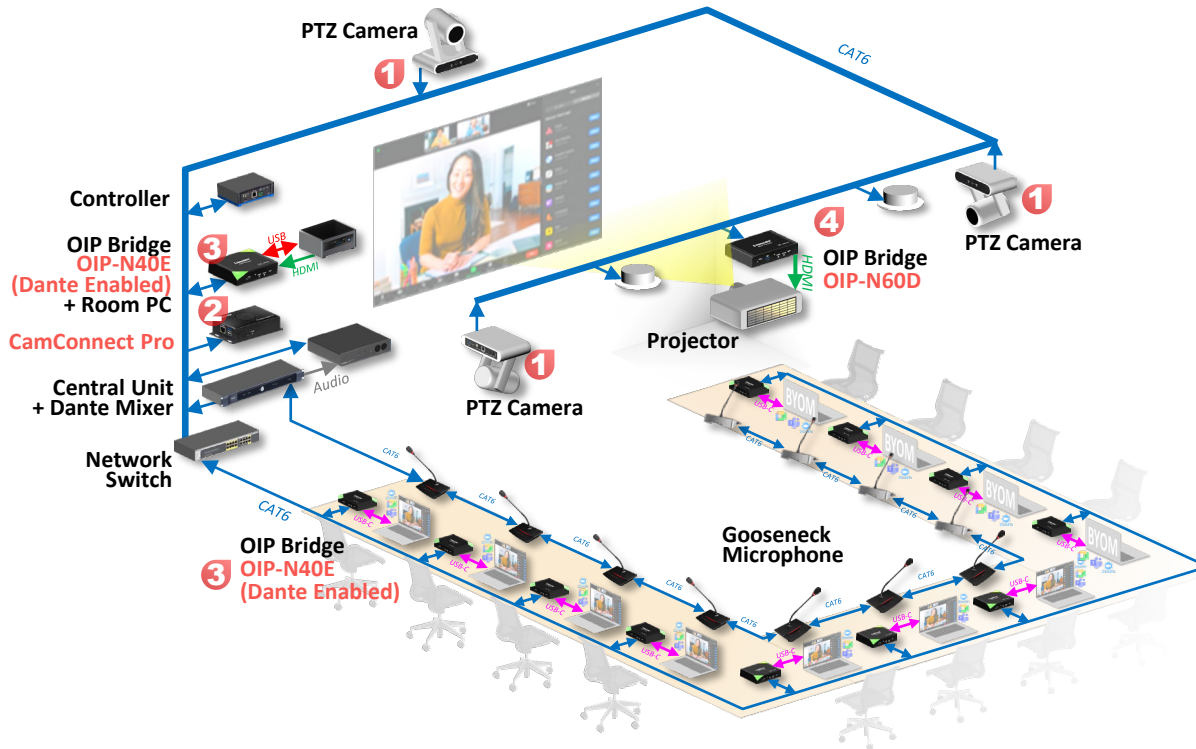
Products

| NO. | Product Name | Brand | Installation Location |
|-----|-------------------------------------|--------|-----------------------|
| 1 | OIP Bridge OIP-N40E (Dante Enabled) | Lumens | Under the Table |
| 2 | OIP Bridge OIP-N60D | Lumens | Rack-Mounted |
| 3 | PTZ Camera | Lumens | Wall-Mounted |

The solutions described in this guide should be considered illustrative only. Please consult with the Lumens sales team to discuss your specific projects.

USB BYOM Bridge

Conference System Multi-Point BYOM



The solutions described in this guide should be considered illustrative only. Please consult with the Lumens sales team to discuss your specific projects.

Description

OIP Bridge connects multiple users' laptops, enabling users share content from any device while exploiting the same camera, mic, and display for a flexible collaboration experience.

Features

1. Connect from any seat, at any time – no laptop configuration required. Just plug and play!
2. Compared to traditional approaches, OIP-N40E/N60D can serve as a bi-directional extender for both USB and HDMI sources.

Products

| NO. | Product Name | Brand | Installation Location |
|-----|-------------------------------------|--------|-----------------------|
| 1 | PTZ Camera | Lumens | Wall-Mounted |
| 2 | CamConnect Pro | Lumens | Rack-Mounted |
| 3 | OIP Bridge OIP-N40E (Dante Enabled) | Lumens | Under the Table |
| 4 | OIP Bridge OIP-N60D | Lumens | Projector |



S04

IP to USB

Single Cable Integration with Conferencing Systems

What is IP to USB?

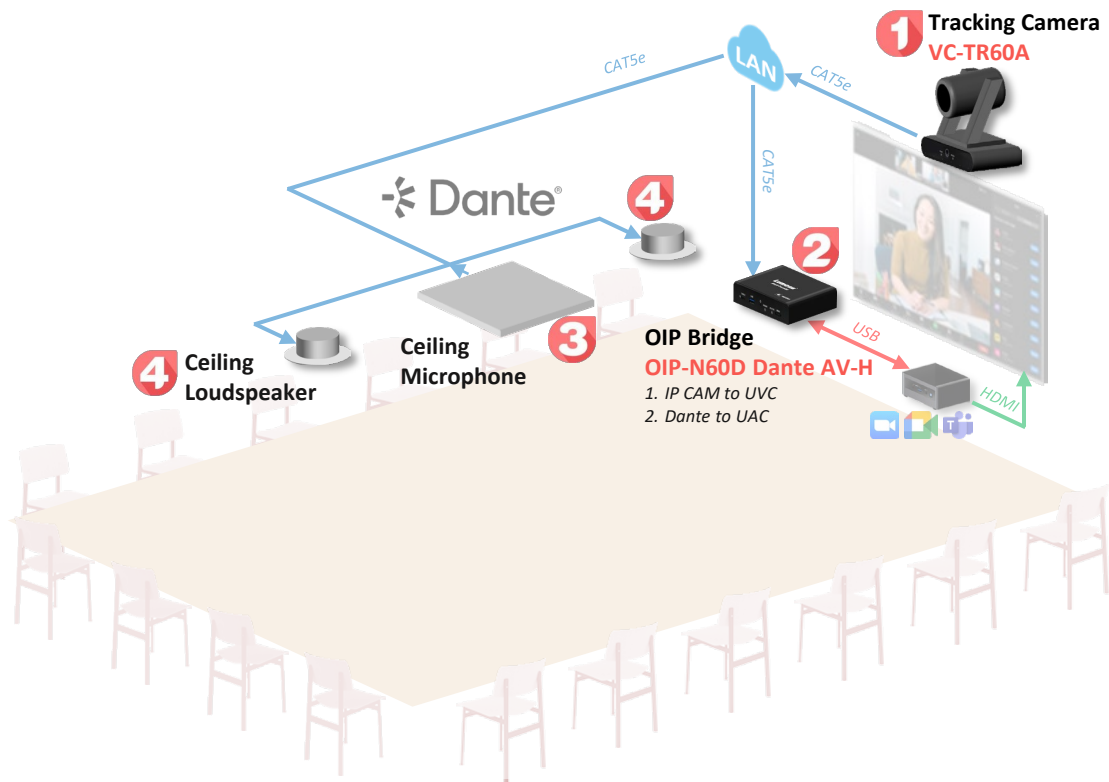
You can now build an all-IP meeting room thanks to Lumens. The OIP-N60D Dante decoder connects to your network and converts IP video and Dante audio streams to USB. It allows a single USB-C port on a laptop to connect to the professional AV installed in the room.

As a Dante device, the decoder is visible to Audinate's management tools including Dante Controller. Through this application, high quality audio and video streams can be routed to USB with very low latency.

Say goodbye to USB and HDMI cable length limitations and help reduce the pressure on the AV teams to support every meeting.

Dante AV Bridge

Dante-to-USB Bridge



The solutions described in this guide should be considered illustrative only. Please consult with the Lumens sales team to discuss your specific projects.

Description

A single OIP-N60D Dante AV-H can decode all video and audio IP sources. It converts signals to USB for output to the PC for use with your preferred video conferencing platform.

Features

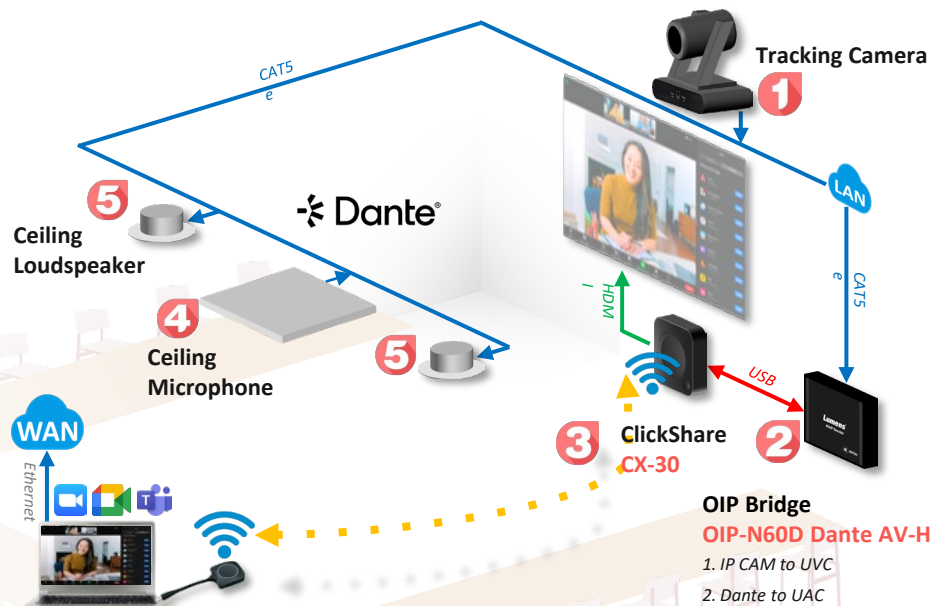
1. Suitable for meeting rooms, IP installations reduce cable clutter, centralize control and management and make it easy to power each connected device.
2. With OIP-N60D Dante AV-H, there's no need for separate audio and video converters. One device does it all.

Products

| NO. | Product Name | Brand | Installation Location |
|-----|--------------------------------|---------|-----------------------|
| 1 | Tracking Camera VC-TR60A | Lumens | Ceiling-Mounted |
| 2 | OIP Bridge OIP-N60D Dante AV-H | Lumens | Rack-Mounted |
| 3 | Ceiling Microphone | Partner | Ceiling-Mounted |
| 4 | Ceiling Loudspeaker | Partner | Ceiling-Mounted |

Wireless Bridge

Barco ClickShare



Lumens® | Dante® | BARCO® ClickShare

Description

OIP-N60D Dante AV-H decodes Dante audio and IP video signals and converts them to USB. ClickShare CX then wirelessly transmits the stream to a connected laptop.

Features

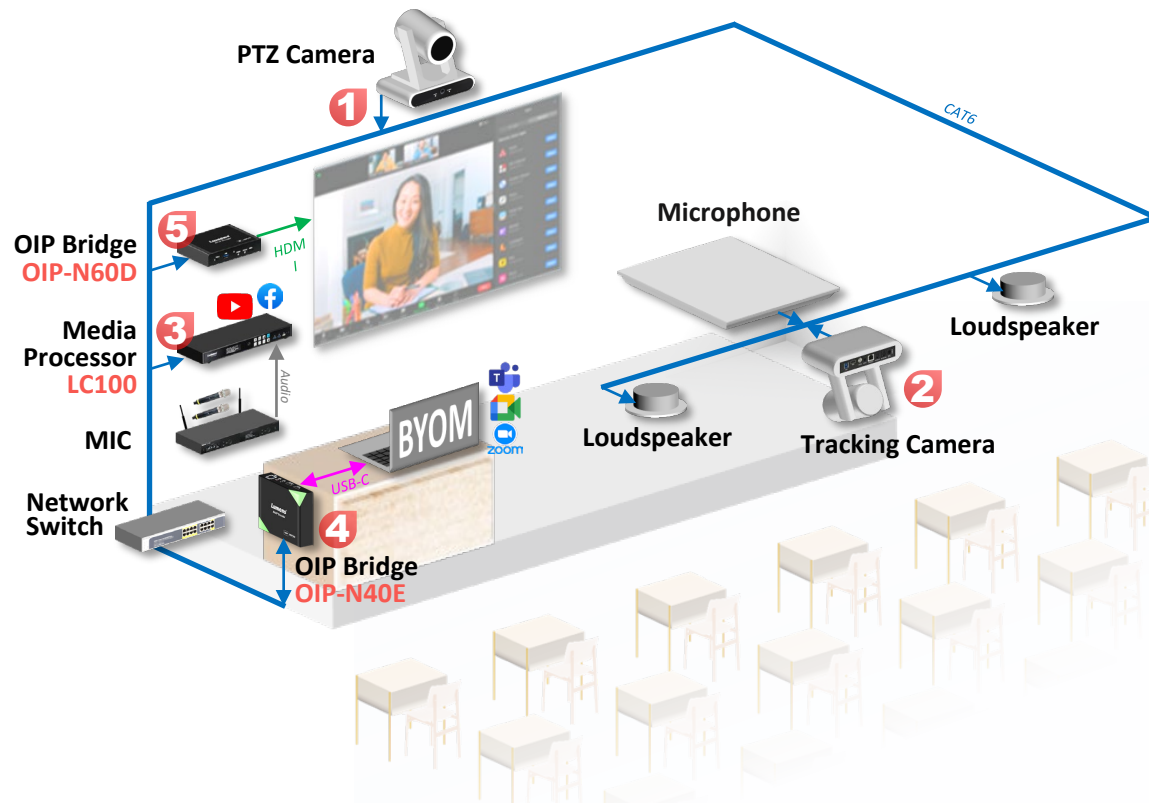
1. Suitable for hybrid meeting rooms, IP enables long-distance cabling (over 100 meters) for the flexible positioning of AV equipment and user laptops.
2. Integrating OIP-N60D Dante AV-H with Barco ClickShare CX means decoding of all audio and video IP sources and wireless connection to the BYOM laptop.

Products

| NO. | Product Name | Brand | Installation Location |
|-----|-----------------------------------|---------|-----------------------|
| 1 | Tracking Camera | Lumens | Ceiling-Mounted |
| 2 | OIP Bridge OIP-N60D Dante AV-H | Lumens | Rack-Mounted |
| 3 | ClickShare CX-30 | Barco | Rack-Mounted |
| 4 | Ceiling Microphone | Partner | Ceiling-Mounted |
| 5 | Ceiling Loudspeaker | Partner | Ceiling-Mounted |

BYOM Classroom

Hybrid Classroom Upgrade



Description

Today's classrooms need to cater for both in-person and remote learning. With Lumens, a single OIP-N40E integrates with all audio and video IP devices, converting them to USB for use with all major video conferencing software applications.

Features

1. Suitable for Hyflex teaching classrooms with both live interaction and full recording for self-initiated learning.
2. Adds interactive communications to any IP installation.
3. Compatible with Panopto and Kaltura LMS platforms.

Products

| NO. | Product Name | Brand | Installation Location |
|-----|-----------------------|--------|-----------------------|
| 1 | PTZ Camera | Lumens | Ceiling-Mounted |
| 2 | Tracking Camera | Lumens | Ceiling-Mounted |
| 3 | Media Processor LC100 | Lumens | Rack-Mounted |
| 4 | OIP Bridge OIP-N40E | Lumens | Rack-Mounted |
| 5 | OIP Bridge OIP-N60D | Lumens | Rack-Mounted |



S05

Recording and Live Streaming

All-in-one multi-input media production systems

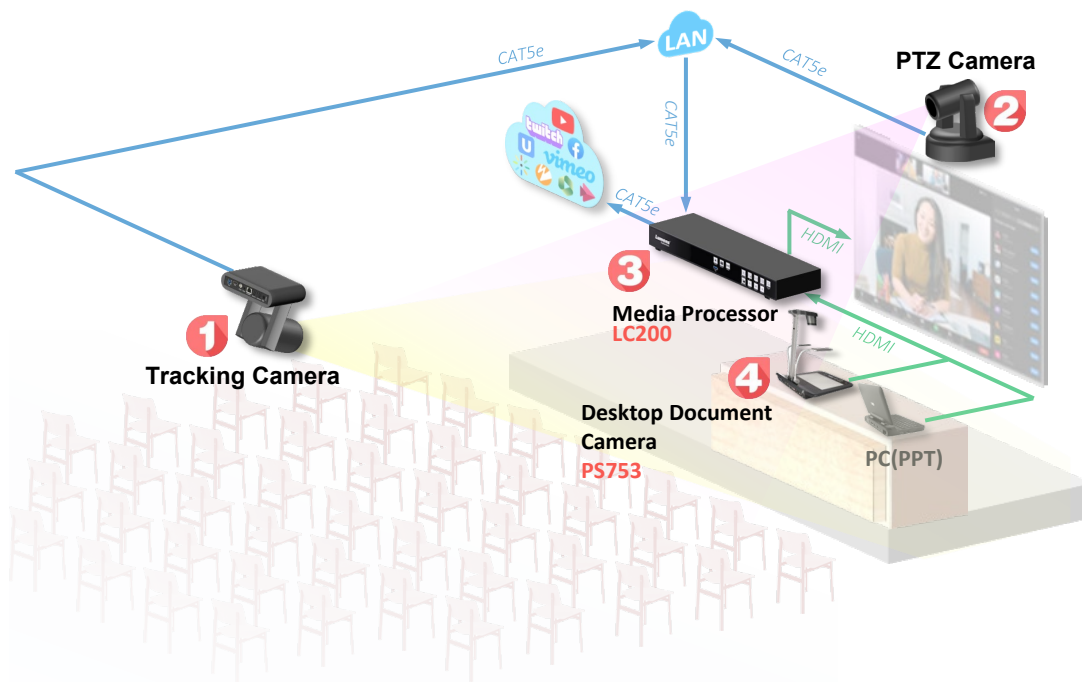
What is Recording and Live Streaming?

Increasingly, conferences, court hearings, public meetings, lectures and business presentations need to be recorded and streamed for remote access, on-demand review and secure archiving.

The Lumens CaptureVision range provides multi-channel video switching and recording via an easy-to-use interface. This allows teaching, presentations and events to be captured and streamed to YouTube, Twitch, or Facebook and uploaded seamlessly to Panopto and Kaltura, or other learning and content management systems.

CaptureVision Lecture System

Lecture Capture Upgrade



Description

CaptureVision systems enable multi-input switching, content branding, multi-channel recording and streaming. They are compatible with Panopto and Kaltura platforms for advanced e-learning, on-demand review and content management.

Features

1. Ideal for HyFlex teaching environments.
2. Simultaneously records four IP and HDMI sources.
3. A simple and easy-to-learn interface allows creative video mixing and direct streaming to major multimedia platforms.

Products

| NO. | Product Name | Brand | Installation Location |
|-----|-------------------------------|--------|-----------------------|
| 1 | Tracking Camera | Lumens | Ceiling-Mounted |
| 2 | PTZ Camera | Lumens | Ceiling-Mounted |
| 3 | Media Processor LC200 | Lumens | Rack-Mounted |
| 4 | Desktop Document Camera PS753 | Lumens | On the Podium |

CaptureVision Event System Multi-Channel Live Production



The solutions described in this guide should be considered illustrative only. Please consult with the Lumens sales team to discuss your specific projects.

Description

Multi-channel video switching and recording with an easy-to-use interface. CaptureVision systems facilitate live streaming and on-demand learning.

Features

1. Ideal for HyFlex teaching environments.
2. Records four inputs, including IP and HDMI channels.
3. Live streaming to major online platforms, with support for Panopto and Kaltura.
4. Transmits video over local networks and displays IP sources on monitors.

Products

| NO. | Product Name | Brand | Installation Location |
|-----|-------------------------|--------|-----------------------|
| 1 | Tracking Camera VC-TR30 | Lumens | Ceiling-Mounted |
| 2 | Ceiling Camera CL511 | Lumens | Ceiling-Mounted |
| 3 | Media Processor LC200 | Lumens | Rack-Mounted |
| 4 | OIP Bridge OIP-N60D | Lumens | Display-Mounted |

S06

Motion Tracking Automated Production

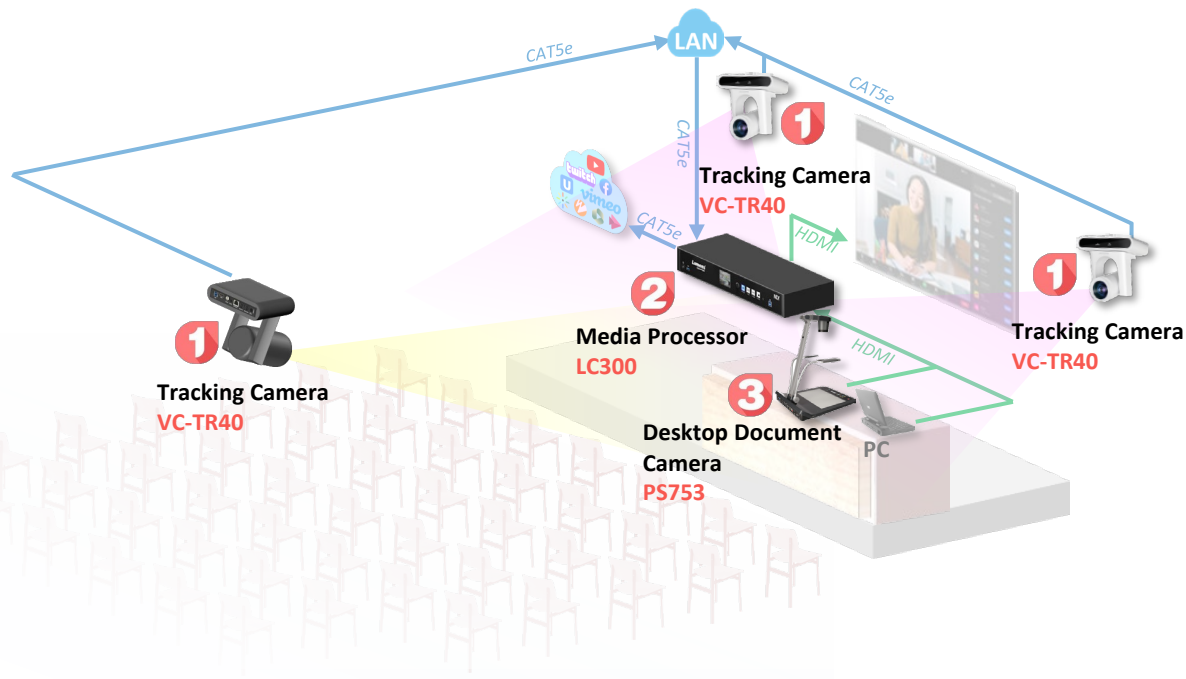
What is Motion Tracking?

Intelligent Director fully automates your production, whether it's team training, a school lesson, university lecture or conference session. This function analyzes the behavior of the presenter and the audience to intelligently produce a multi-camera production. AI-powered, the LC300 CaptureVision system works in tandem with selected Lumens tracking cameras to create a dynamic multi-angle production. It's like creating television, but without the need for a video crew.



Intelligent Director

Automated Production Upgrade



Description

The Intelligent Director function automatically selects the best shot to produce a dynamic, engaging recording of your lesson or round-table discussion. The system streams the session to your platform of choice.

Features

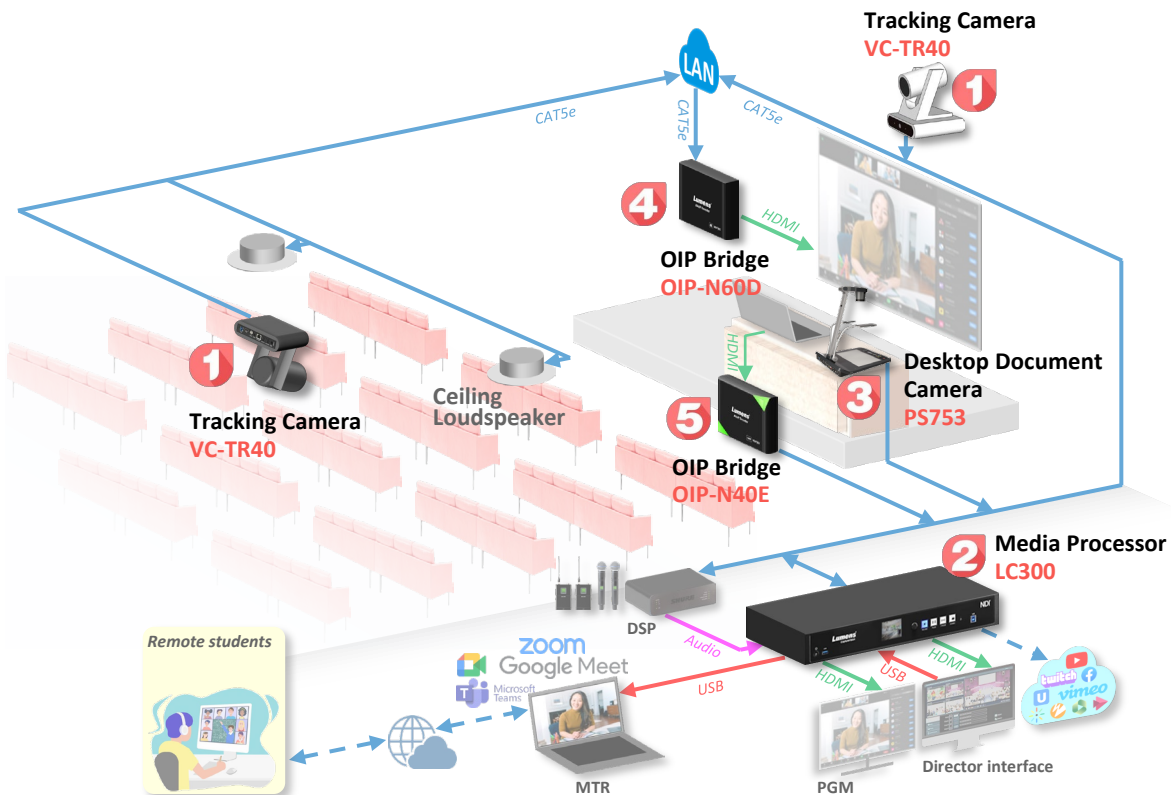
1. Perfect for HyFlex teaching, distance learning and online training environments.
2. Simultaneously records up-to 4 video inputs, including NDI, IP, USB, SDI and HDMI sources.
3. Equipped with the Intelligent Director function, the system automatically tracks the speaker and detects when students stand up to speak, to provide the best camera angle.
4. A simple and easy-to-learn interface that allows direct streaming to major online platforms and video conferencing systems.

Products

| NO. | Product Name | Brand | Installation Location |
|-----|-------------------------------|--------|-----------------------|
| 1 | Tracking Camera VC-TR40 | Lumens | Ceiling-Mounted |
| 2 | Media Processor LC300 | Lumens | Rack-Mounted |
| 3 | Desktop Document Camera PS753 | Lumens | On the Podium |

Intelligent Director

AI-Driven Session Production



The solutions described in this guide should be considered illustrative only. Please consult with the Lumens sales team to discuss your specific projects.

Description

The Intelligent Director function automatically selects the best shot to produce a dynamic, engaging recording of your training sessions or lectures. The system connects live to interactive platforms, including Microsoft Teams and Zoom.

Features

1. Integrates with installed displays and sound equipment to enhance in-room communications.
2. Simultaneously records up-to 4 video inputs, including IP, NDI, USB, SDI and HDMI sources.
3. Streams to online platforms and connects to unified communication systems for interaction with remote attendees.
4. Equipped with the Intelligent Director function, the system automatically tracks the speaker and detects when students stand up to speak, to provide the best camera angle.

Products

| NO. | Product Name | Brand | Installation Location |
|-----|-------------------------------|--------|-----------------------|
| 1 | Tracking Camera VC-TR40 | Lumens | Ceiling-Mounted |
| 2 | Media Processor LC300 | Lumens | Rack-Mounted |
| 3 | Desktop Document Camera PS753 | Lumens | On the Podium |
| 4 | OIP Bridge OIP-N60D | Lumens | Rack-Mounted |
| 5 | OIP Bridge OIP-N40E | Lumens | Under the table |

*This feature can be implemented through the VC-TR40, AT firmware updates.

S07

Audio Routing

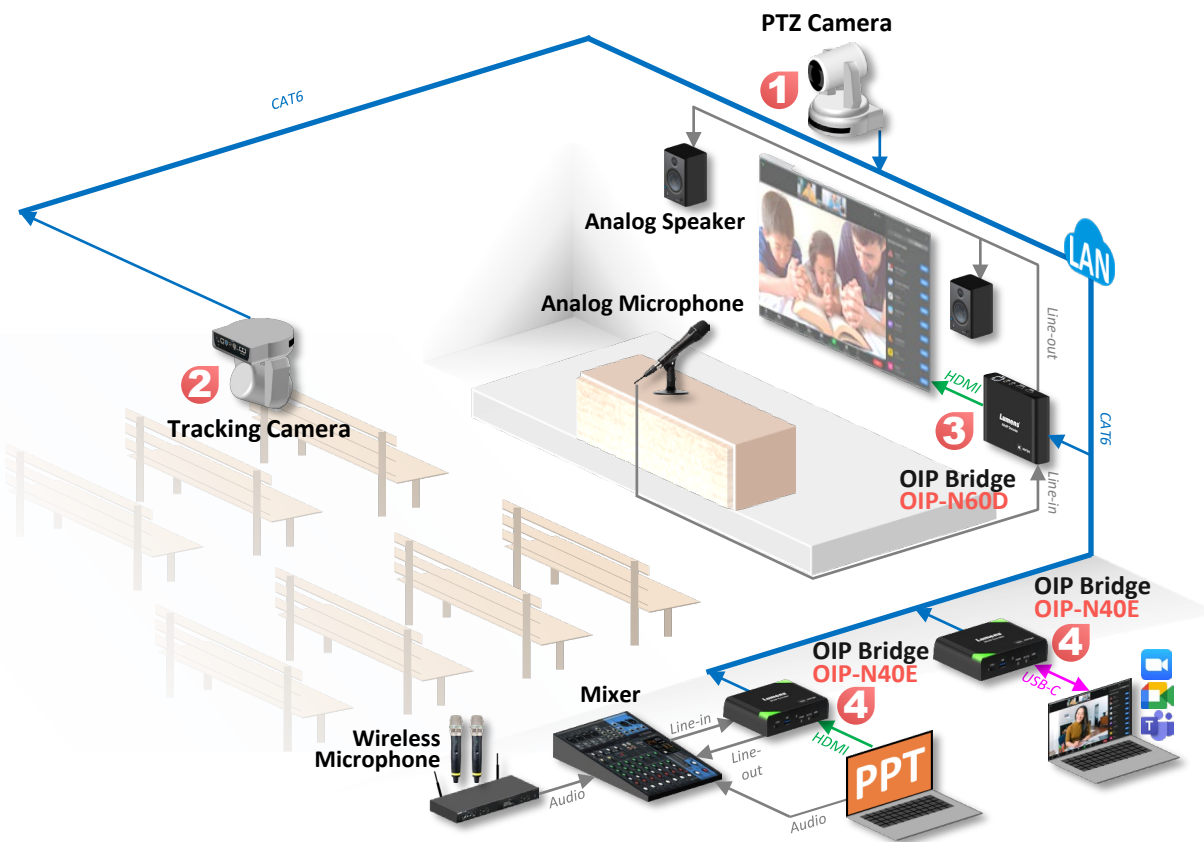
Audio and Video over IP

What is Audio Routing?

Lumens OIP-N Audio Routing is designed to bridge between traditional analog audio systems, computer interfaces and modern IP-based infrastructures. It allows enterprises and institutions to easily convert existing audio and video equipment to IP for efficient network transmission.

OIP-N Audio Routing

Legacy Audio IP Modernization



Description

1. Converts traditional audio devices—such as microphones, speakers, and mixers—into IP signals.
2. Enables non-Dante audio equipment to integrate seamlessly with Dante-based systems.
3. Integrates room audio and video into a single USB-C interface, allowing users to connect a laptop and use the audio for Zoom or Microsoft Teams meetings.

Features

1. IP Audio Enablement
2. Dante Interoperability
3. USB Integration for BYOM

Products

| NO. | Product Name | Brand | Installation Location |
|-----|---------------------|--------|-----------------------|
| 1 | PTZ Camera | Lumens | Ceiling-Mounted |
| 2 | Tracking Camera | Lumens | Ceiling-Mounted |
| 3 | OIP Bridge OIP-N60D | Lumens | Display-Mounted |
| 4 | OIP Bridge OIP-N40E | Lumens | Rack-Mounted |

Solution Partners

S01. Automated Voice Tracking



S02. BYOD & BYOM



S03. Multi-Point BYOM



S04. IP to USB



S05. Recording and Live Streaming



S06. Motion Tracking



S07. Audio Routing



Third Party Partners



More Details



Contact Sales

Provides product consultation, project planning, and quotation support.



Book a Live Demo

Provides online or onsite live demo appointment scheduling.



ProAV Lab Blog

Provides ProAV use cases, technical articles, and deployment insights.



Download Documents

Provides catalogs, solution brochures, and technical documents for download.



Lumens YouTube

Provides product introductions, tutorials, and customer success videos.