

Solutions Introduction

April 2025

About Lumens

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

About Lumens Solutions

Integrated solutions that deliver an exceptional user
experience by seamlessly integrating with Lumens
products and those of other AV brands.



Solutions

Integrated solutions that deliver an exceptional user experience

Lumens provides complete solutions with our cameras, media processors and AVoIP product range.

Lumens[®]

Your Success, Our Focus



Speaker Tracking

AI-based Voice Tracking Technology



BYOM

Bring Your Own Meeting



IP to USB Converter

Single Cable Integration with Conferencing Systems



Multi-Channel Recording and Live Streaming

All-in-one multi-input media production systems



Intelligent Director

Automated Production



Dante Support

Integration of Dante Audio and Video

Speaker Tracking

AI-based Voice Tracking Technology

What is Speaker Tracking?

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

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 multiple Lumens cameras to **switch and focus cameras** on the active speaker.

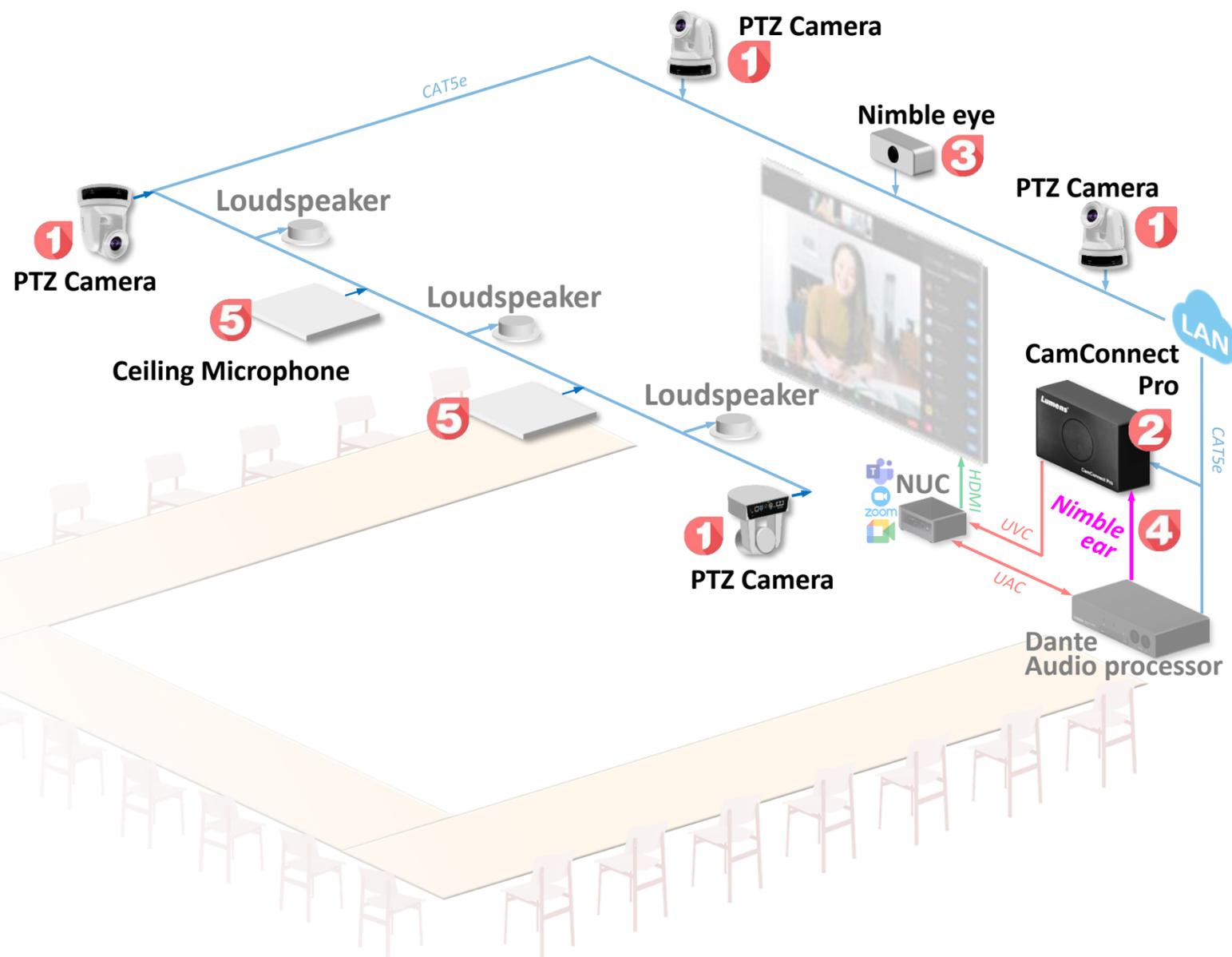
Use Cases

- ST01 Large Conference Room
- ST02-2 Medium Conference Room
- ST03 Huddle Space
- ST04 Training Room

Speaker Tracking

AI-based Voice Tracking Technology

Large Conference Room



Description

1. CamConnect Pro receives live location data from the microphone array.
2. CamConnect Pro controls 1 to 4 PTZ cameras to capture the best angle. CamConnect Pro transmits the video to the conference PC via USB (UVC).
3. Nimble Eye/Ear ensures accurate sound analysis and people tracking.

Features

1. Ideal for large conference rooms with multiple cameras capturing the scene.
2. Automatically obtains the best shooting angles for use by the conference PC.
3. Compared to other competitive systems, it is more streamlined. Nimble Eye/Ear minimizes interference and significantly reduces tracking errors.
4. Compared to manually controlled camera systems, AI provides considerable cost-savings.

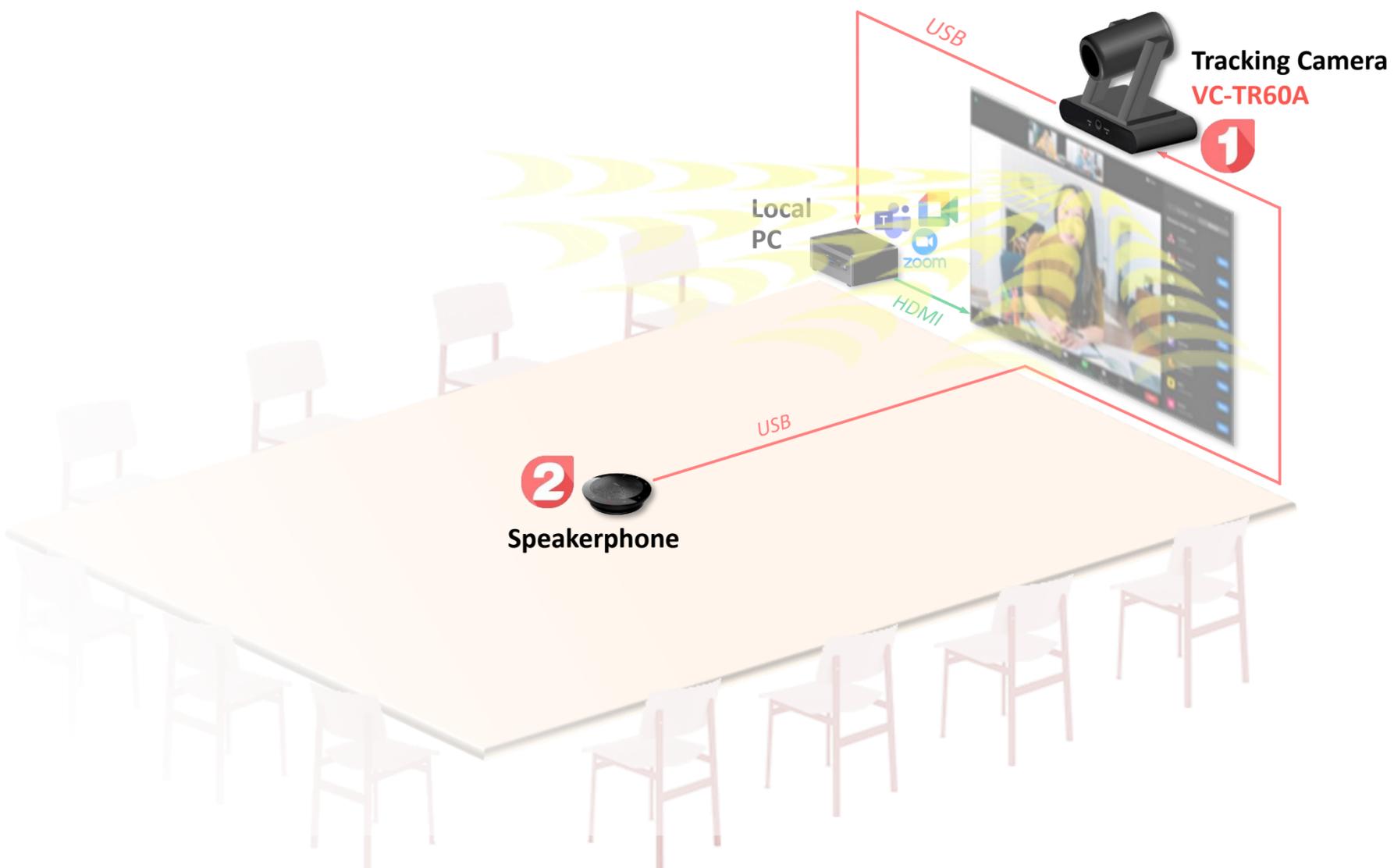
Products

NO.	Product Name	Brand	Installation Location
1	PTZ Camera	Lumens	Ceiling-Mounted
2	CamConnect Pro	Lumens	Rack-Mounted
3	Nimble Eye <i>Coming Soon</i>	Lumens	Rack-Mounted
4	Nimble Ear <i>Coming Soon</i>	Lumens	Cabling
5	Ceiling Microphone	Partner	Ceiling-Mounted

Speaker Tracking

AI-based Voice Tracking Technology

Medium Conference Room



Description

VC-TR60A features built-in audio sensors. These automatically locate the position of the speaker in the room and guide the camera towards the active voice.

Features

1. Suitable for medium-sized conference rooms.
2. AI eliminates the need for a dedicated operator to focus on participants.

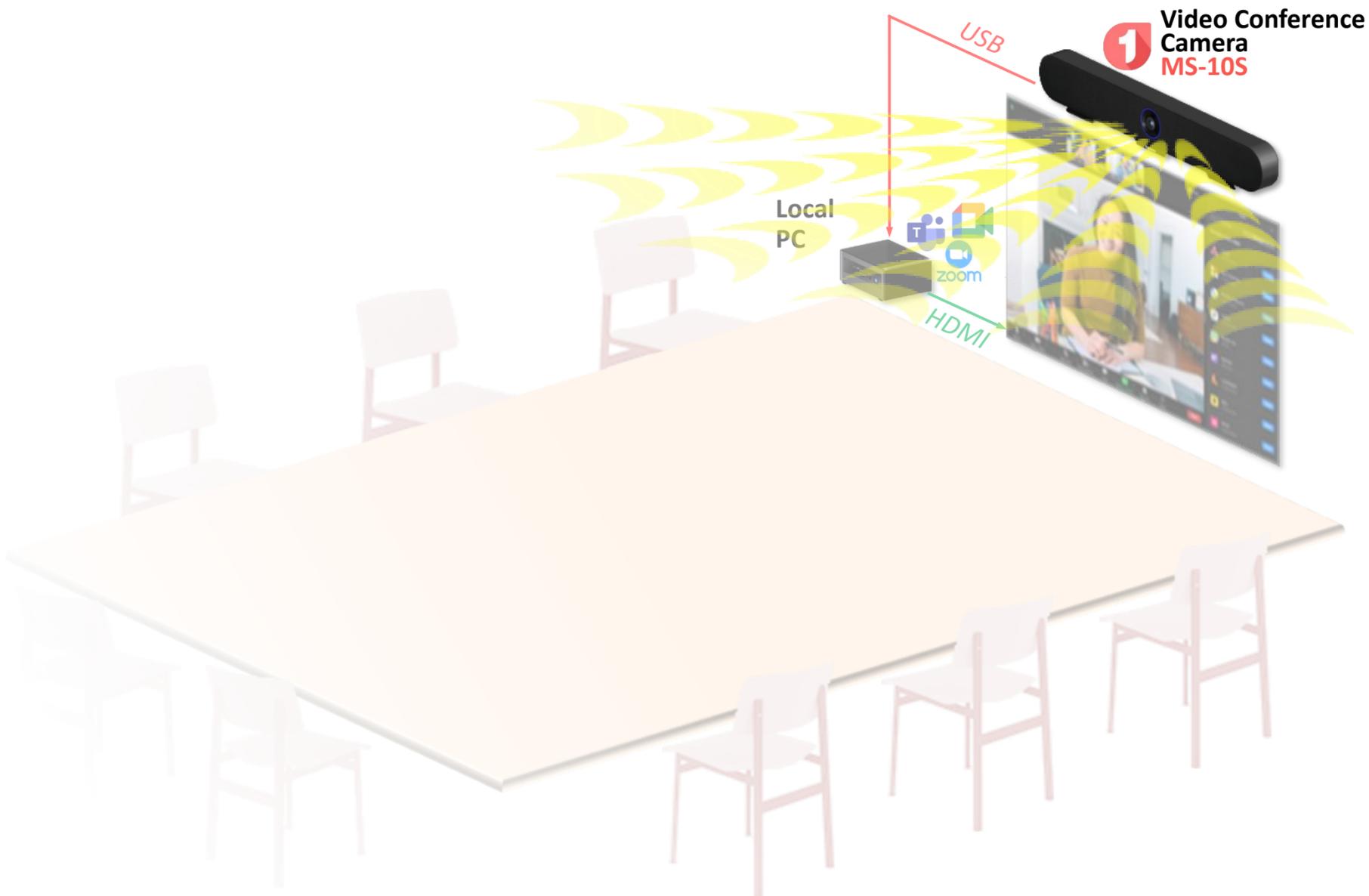
Products

NO.	Product Name	Brand	Installation Location
1	Tracking Camera VC-TR60A	Lumens	Wall-Mounted
2	Speakerphone	Partner	On the Table

Speaker Tracking

AI-based Voice Tracking Technology

Huddle Space



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 rooms.
2. Easy to use, all-in-one solution.
3. AI automatically sets the camera position and zoom.

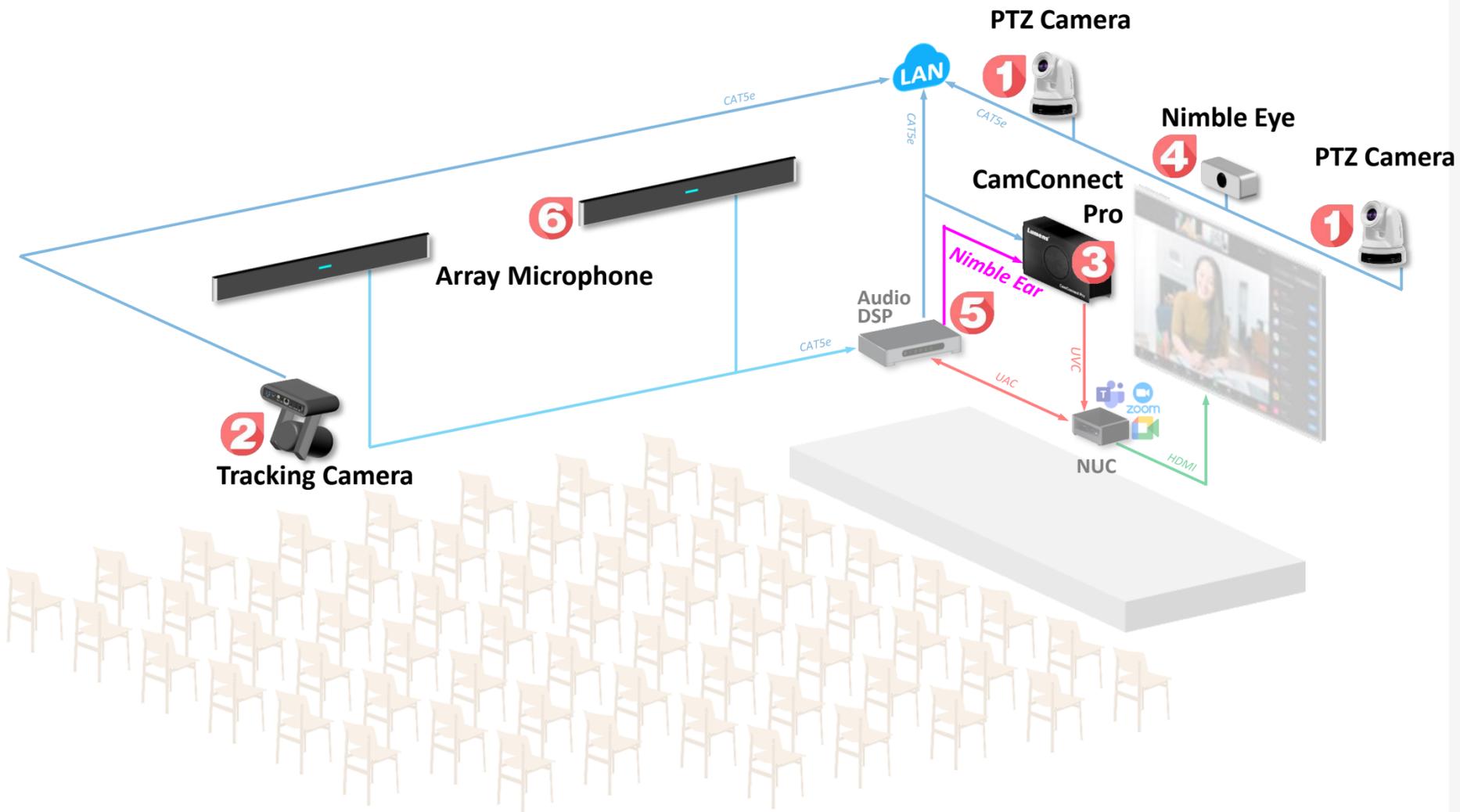
Products

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

Speaker Tracking

AI-based Voice Tracking Technology

Training Room



Description

1. CamConnect Pro obtains the XYZ audio positional data from the microphones.
2. CamConnect Pro controls 1 to 4 PTZ cameras to capture the best angles and transmits the video to the conference PC via UVC.
3. Nimble Eye/Ear ensures accurate sound analysis and people tracking.

Features

1. Ideal for large conference rooms with multiple cameras installed.
2. Supports real-time XYZ audio location information without the need to set preset positions, making it ideal for scenes with multiple speakers.
3. Obtains the best shooting angles with output to the conference PC.
4. Set up the entire system in minutes. Nimble Eye/Ear minimizes interference and enhances tracking accuracy.
5. 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	Nimble Eye <i>Coming Soon</i>	Lumens	Rack-Mounted
5	Nimble Ear <i>Coming Soon</i>	Lumens	Cabling
6	Array Microphone	Partner	Wall-Mounted

BYOM

Bring Your Own Meeting

What is 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.

Lumens' BYOM solution is designed for maximum flexibility. It allows the AV team to install microphones and PTZ cameras in any position for use in the meeting. And it operates autonomously – simply turn the system on and the meeting will run with superb sound and expertly framed video.

Use Cases

- SB01-2 Large Conference Room
- SB02 Medium-Size Conference Room
- SB03 Small Huddle room

BYOM

Bring Your Own Meeting

Large Conference Room

Description

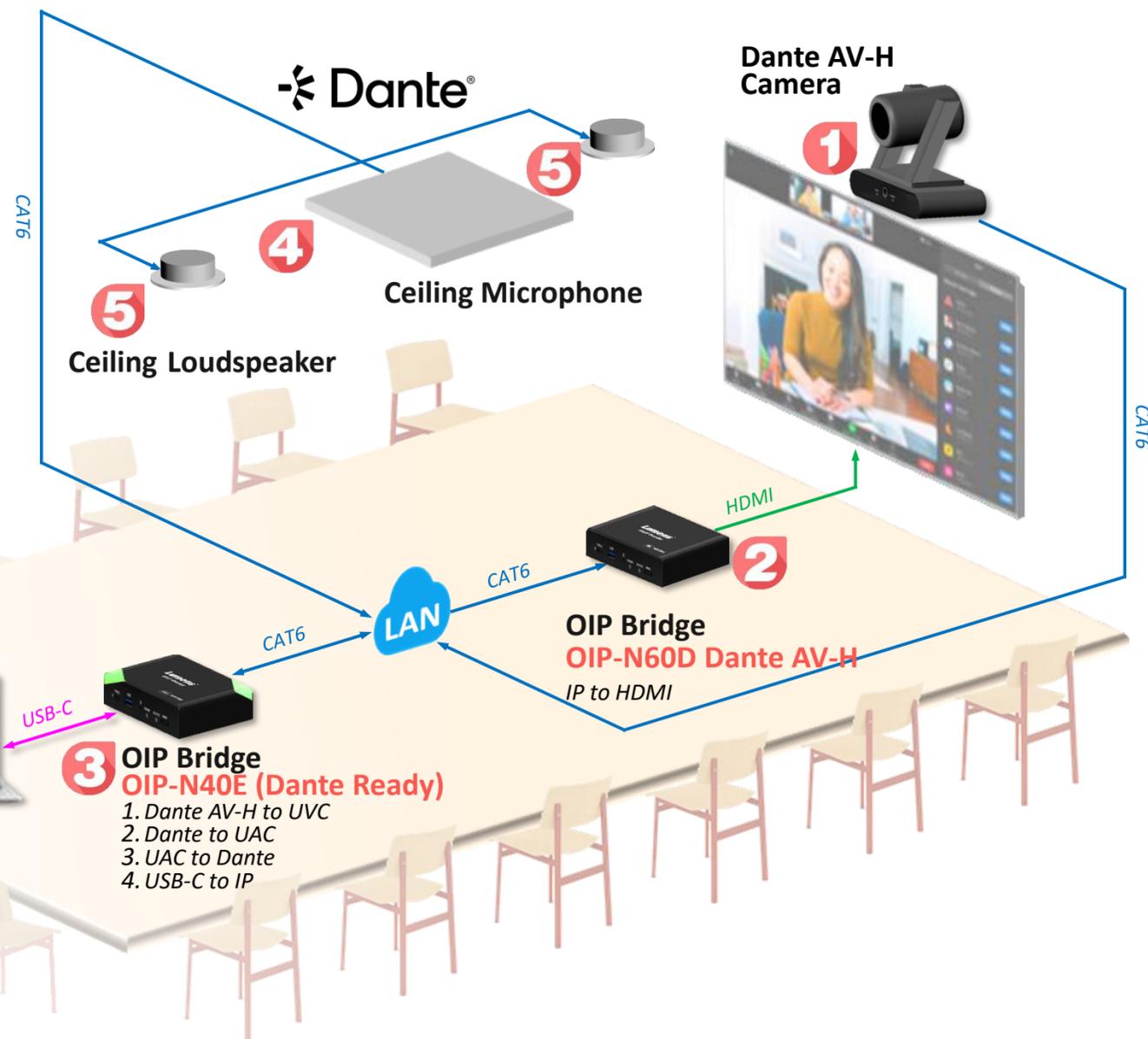
OIP-N40E (Dante Ready) combines with the OIP-N60D Dante AV-H to connect Dante audio and video devices in the conference room, while also linking to in room displays.

Features

1. Suitable for meeting rooms of any size, IP can be used to route audio and video signals over distances exceeding 50 meters.
2. One cable (USB Type-C) solution.

Products

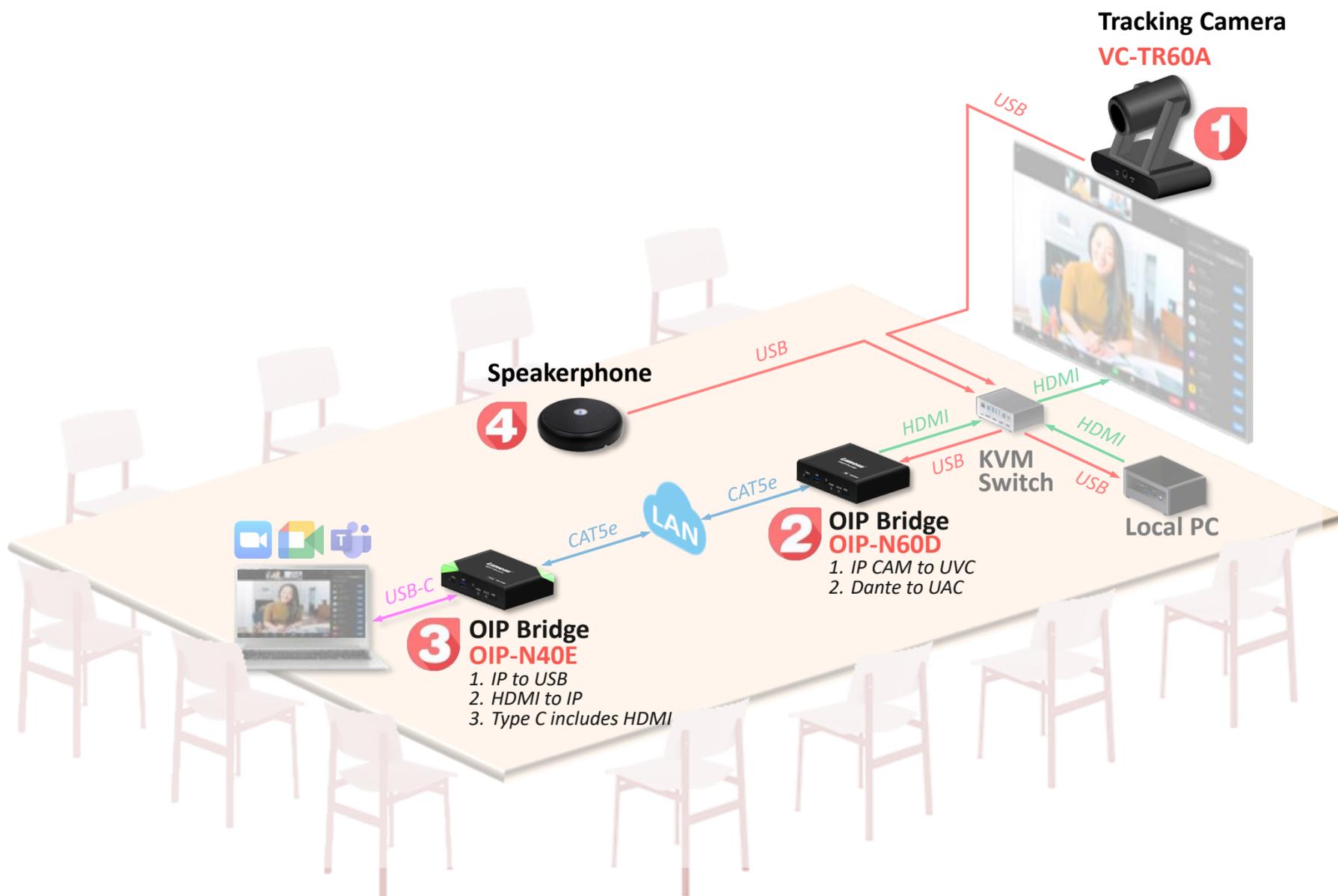
NO.	Product Name	Brand	Installation Location
1	Dante AV-H Camera	Lumens	Wall-Mounted
2	OIP Bridge OIP-N60D Dante AV-H	Lumens	Under the Table
3	OIP Bridge OIP-N40E (Dante Ready)	Lumens	Under the Table
4	Ceiling Microphone	Partner	Ceiling
5	Ceiling Loudspeaker	Partner	Ceiling



BYOM

Bring Your Own Meeting

Medium-Sized Conference Room



Description

VC-TR60A is ideal for medium-sized conference rooms and features intelligent voice tracking. 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 a time-saving, one cable set-up.

Features

1. Suitable for medium conference rooms.
2. Compared to traditional methods, the OIP-N40E/N60D can serve as a bi-directional extender for both USB and HDMI sources.

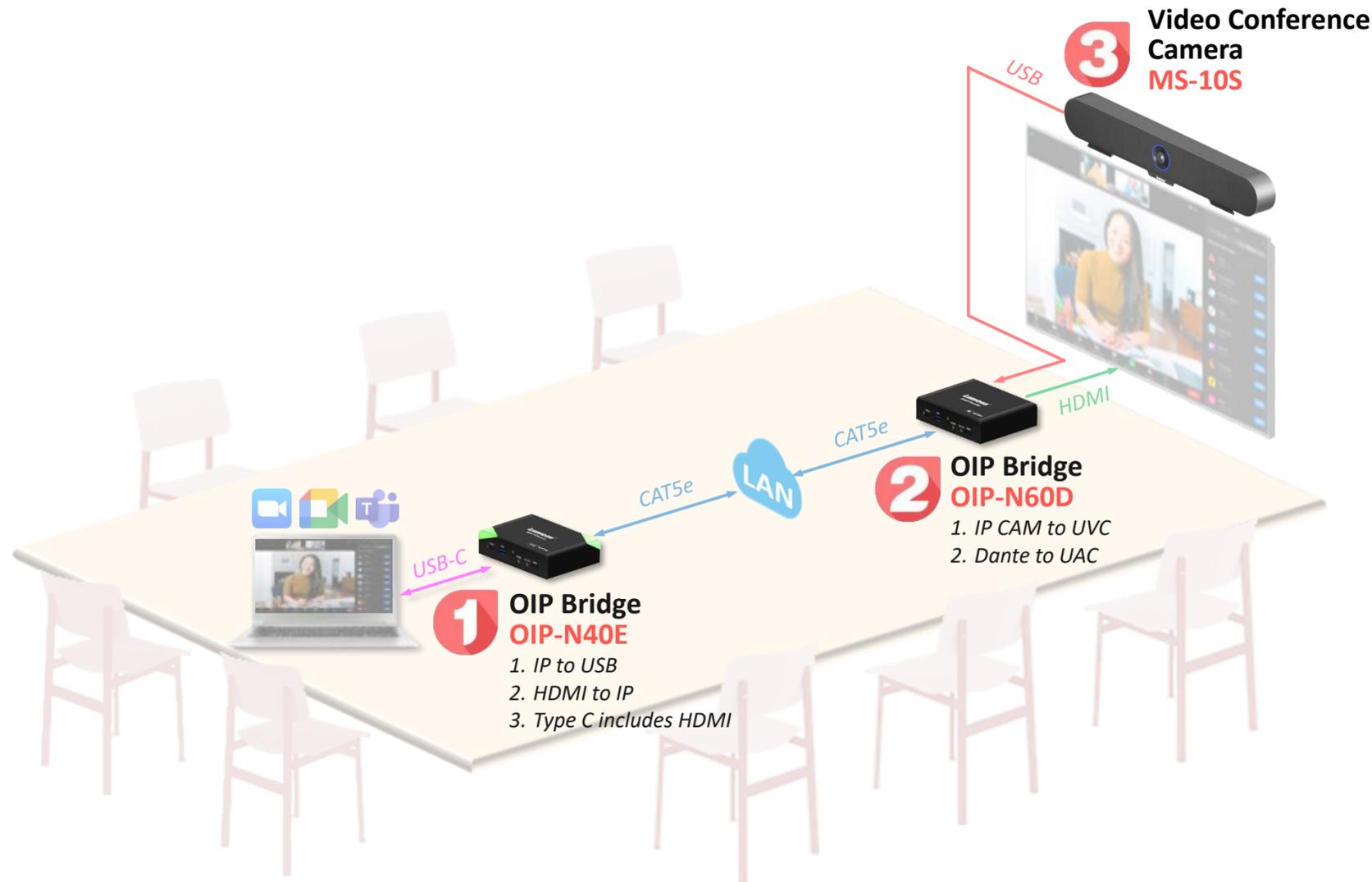
Products

NO.	Product Name	Brand	Installation Location
1	Tracking Camera VC-TR60A	Lumens	Wall-Mounted
2	OIP Bridge OIP-N60D	Lumens	Under the Table
3	OIP Bridge OIP-N40E	Lumens	Under the Table
4	Speakerphone	Partner	On the Table

BYOM

Bring Your Own Meeting

Small Huddle Room



Description

MS-10S is suitable for small-sized 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 conference rooms.
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

IP to USB Converter

Single Cable Integration with Conferencing Systems

What is IP to USB Conversion?

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.

Use Cases

- SC01 Dante Video Conference
- SC02 Wireless BYOM
- SC04 Hybrid Teaching Classroom
- SC06 Auditorium

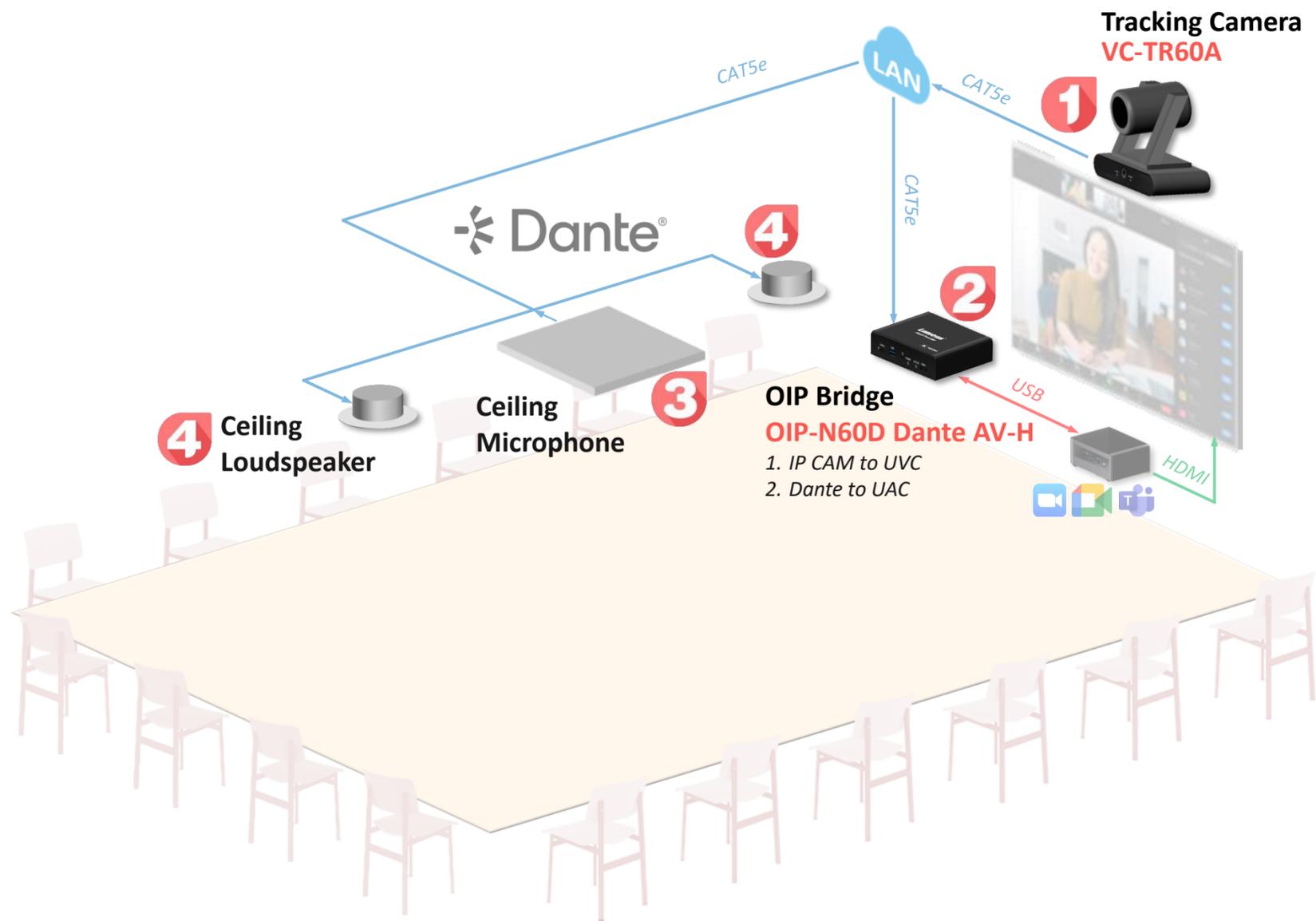
Lumens Product Focus

OIP-N60D Dante AV-H
AV over IP and Dante AV-H 4K OIP Bridge

IP to USB Converter

Single Cable Integration with Conferencing Systems

Dante Video Conference



Description

A single OIP-N60D Dante AV-H can decode all of your video and audio IP sources, converting them to USB for output to the PC for use with video conferencing software.

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.

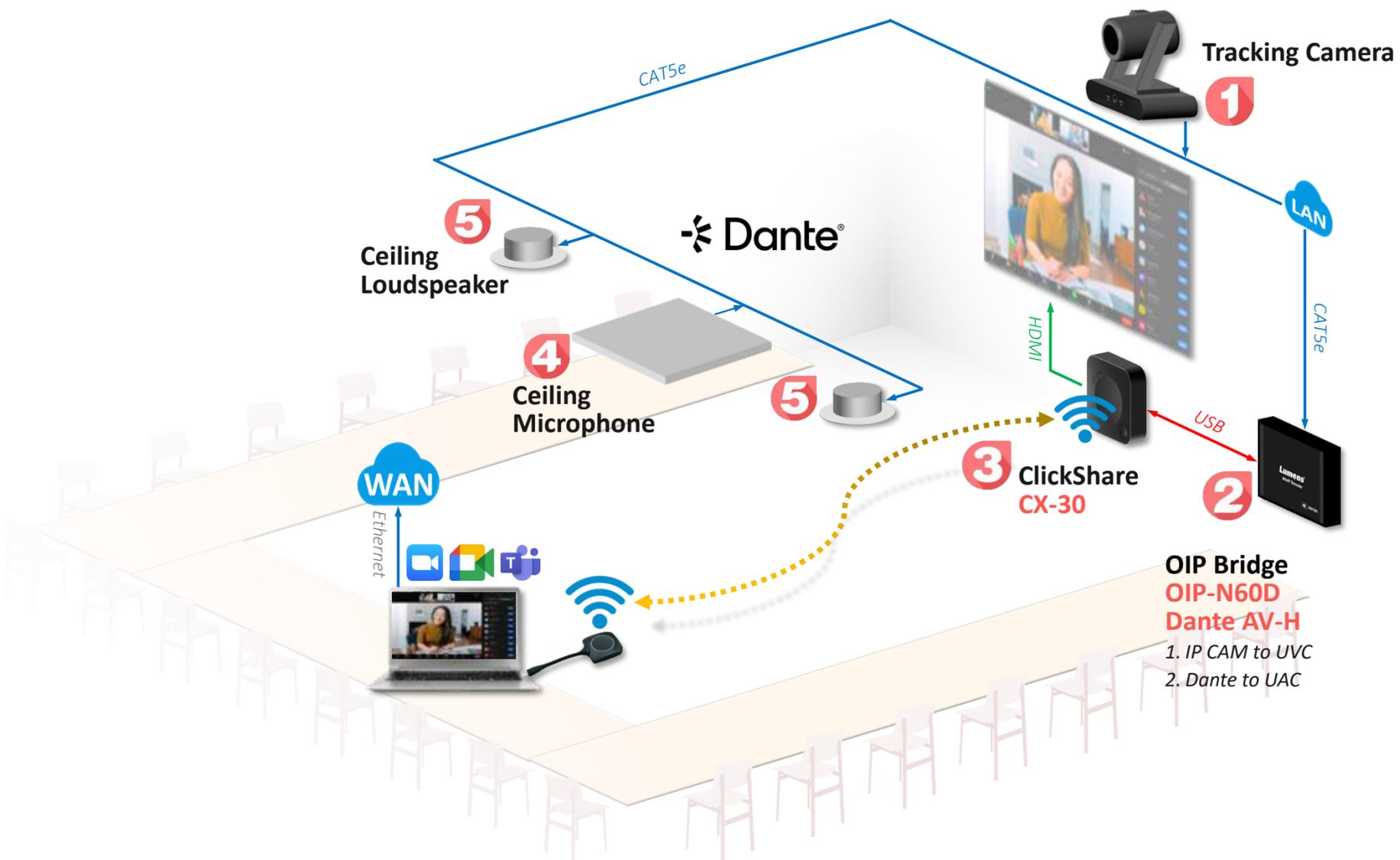
Products

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

IP to USB Converter

Single Cable Integration with Conferencing Systems

Wireless BYOM



**OIP Bridge
OIP-N60D
Dante AV-H**

- 1. IP CAM to UVC
- 2. Dante to UAC

Description

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

Features

1. Suitable for hybrid meeting rooms, IP enables long-distance cabling (over 50 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.

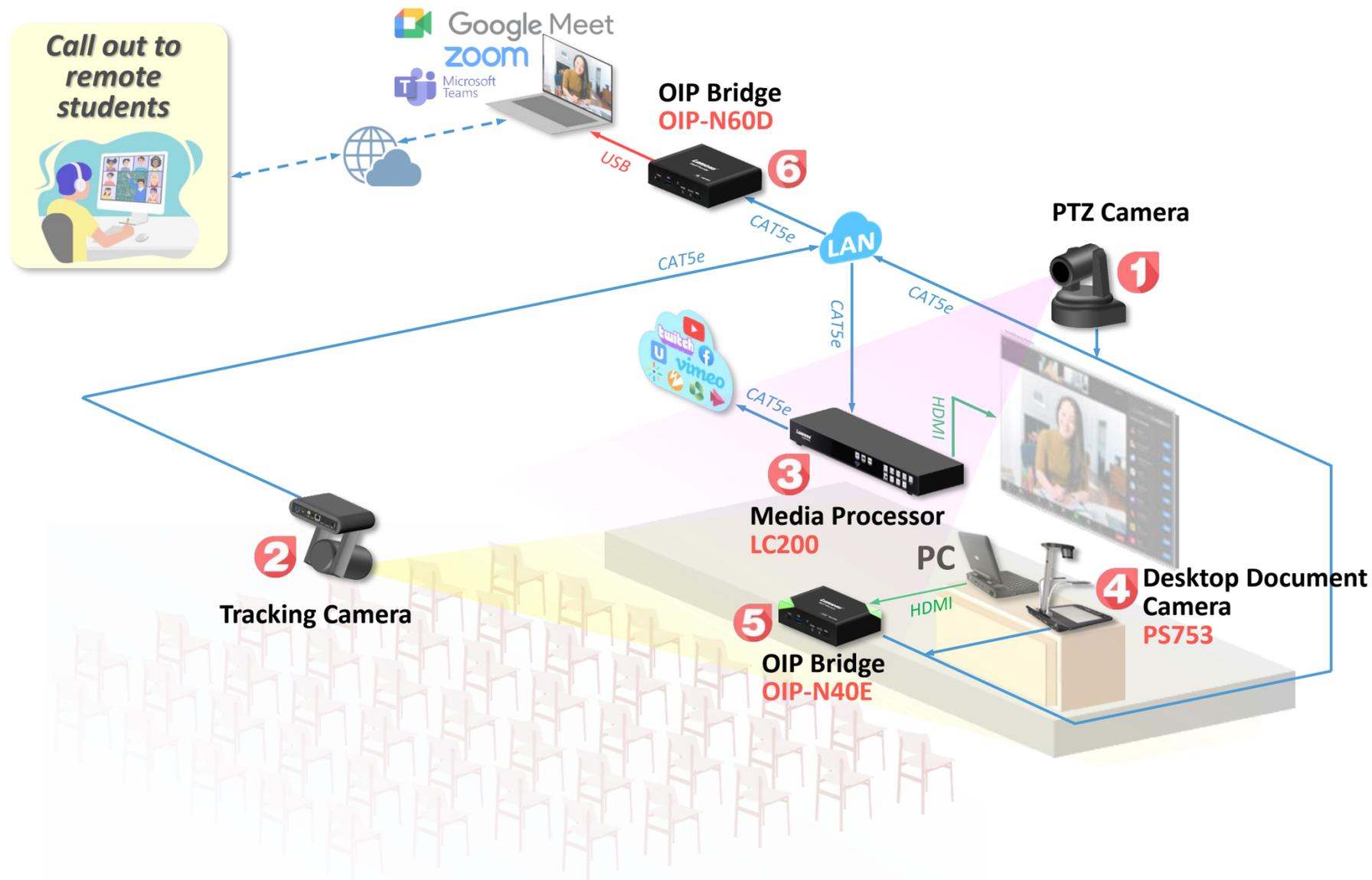
Products

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

IP to USB Converter

Single Cable Integration with Conferencing Systems

Hybrid Teaching Classroom



Description

A single OIP-N60D integrates with all audio and video IP devices, converting them to USB for use with video conferencing software.

Features

1. Suitable for online/offline hybrid teaching classrooms.
2. Adds interactive communications to any IP installation.
3. Compatible with Panopto and Kaltura platforms.

Products

NO.	Product Name	Brand	Installation Location
1	PTZ Camera	Lumens	Ceiling-Mounted
2	Tracking Camera	Lumens	Ceiling-Mounted
3	Media Processor LC200	Lumens	Rack-Mounted
4	Desktop Document Camera PS753	Lumens	On the Podium
5	OIP Bridge OIP-N40E	Lumens	Rack-Mounted
6	OIP Bridge OIP-N60D	Lumens	Rack-Mounted

Multi-Channel Recording and Live Streaming

All-in-one multi-input media production systems

What is Multi-Channel Recording and Live Streaming?

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 the teaching process to be captured and streamed to YouTube, Twitch, or Facebook and uploaded seamlessly to Panopto and Kaltura, or other content management systems.

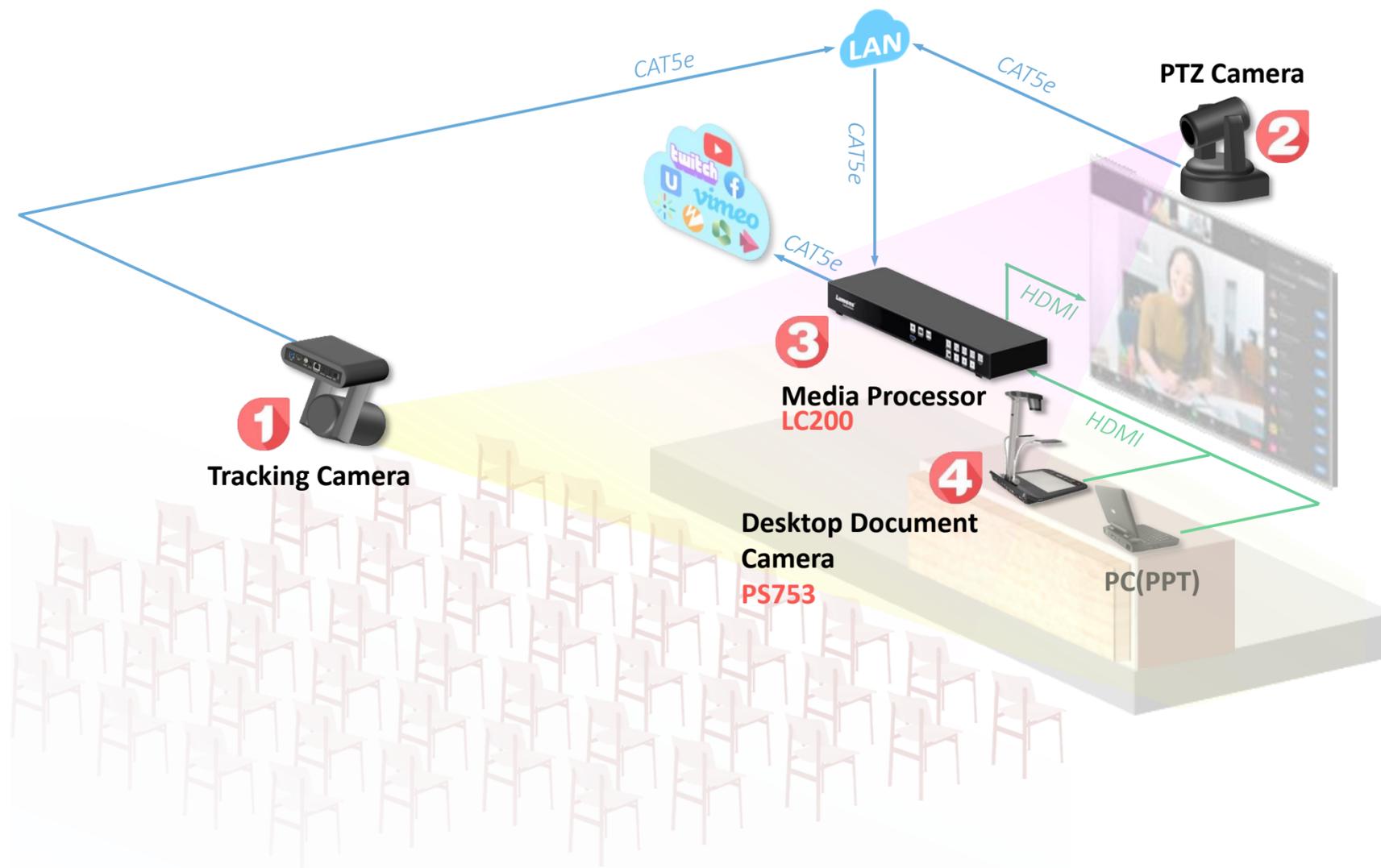
Use Cases

- SL01 Advanced Classroom
- SL02 Culinary Class

Multi-Channel Recording and Live Streaming

All-in-one multi-input media production systems

Advanced Classroom



Description

CaptureVision System enables multi-input switching, content branding, multi-channel recording and streaming. It is compatible with Panopto and Kaltura platforms for advanced e-learning and content management.

Features

1. Ideal for high flex 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.

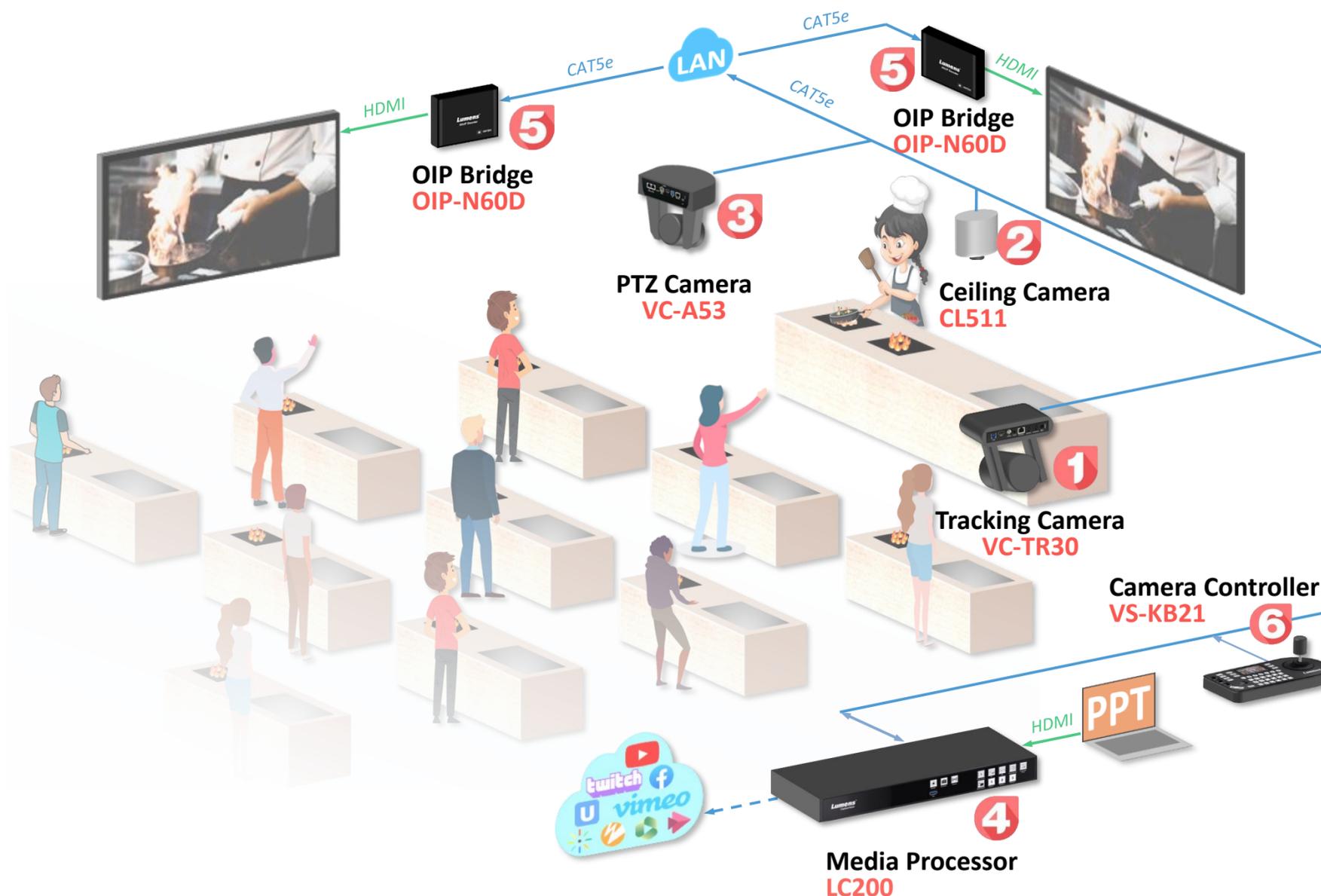
Products

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

Multi-Channel Recording and Live Streaming

All-in-one multi-input media production systems

Culinary Class



Description

Multi-channel video switching and recording with an easy-to-use interface. CaptureVision systems facilitate live 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	PTZ Camera VC-A53	Lumens	Ceiling-Mounted
4	Media Processor LC200	Lumens	Rack-Mounted
5	OIP Bridge OIP-N60D	Lumens	Display-Mounted
6	Camera Controller VS-KB21	Lumens	On the table

Intelligent Director

Automated Production

What is Intelligent Director?

Intelligent Director 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.

Use Cases

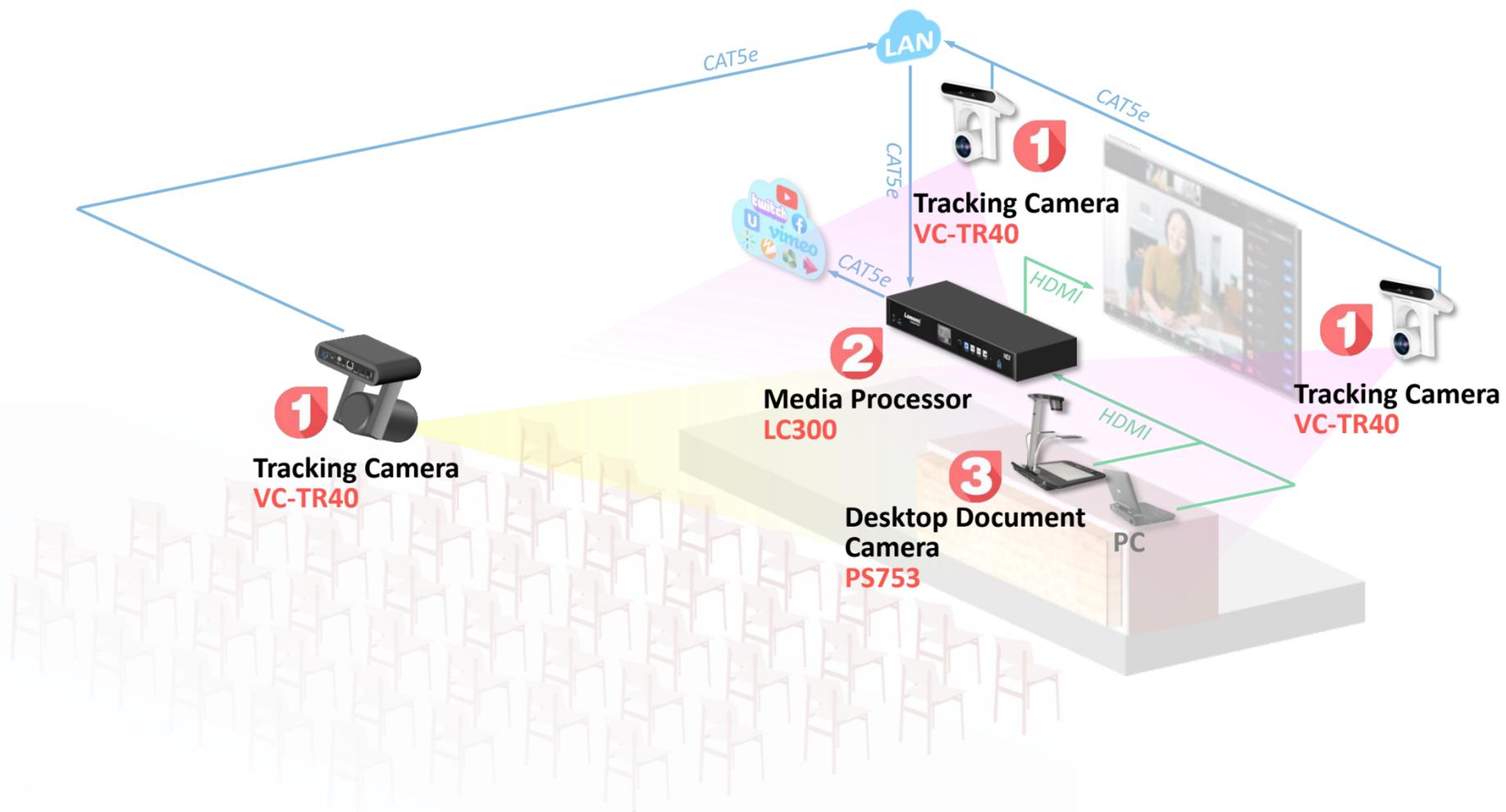
- SI01 Advanced Classroom
- SI03 Auditorium



Intelligent Director

Automated Production

Advanced Classroom



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

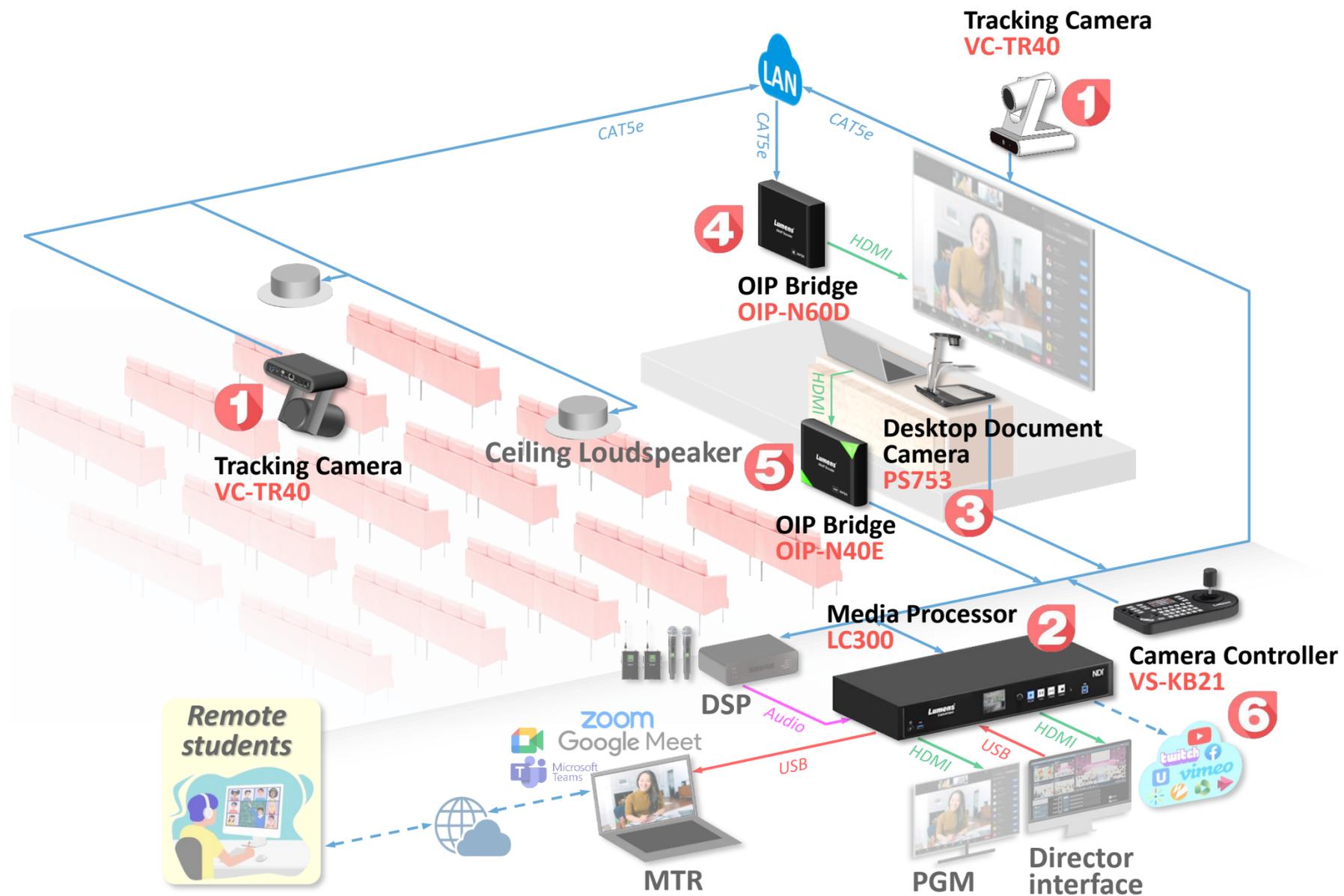
1. Perfect for HyFlex teaching, distance learning and online training environments.
2. Simultaneously records up-to 4 video inputs, including NDI, IP, USB, SDI and HDMI sources.
3. Equipped with the Intelligent Director function, the system automatically tracks the speaker and detects when students stand 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

Automated Production
Auditorium



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, such as 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
6	Camera Controller VS-KB21	Lumens	On the table

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

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

Dante Support

Integration of Dante Audio and Video

Introducing Dante-enabled AV Solutions

Lumens is simplifying the integration of Dante audio and IP video. The new BYOM solution enables a laptop to connect to the meeting room AV with a single USB-C cable. The solution offers synchronized, high-quality, low latency audio and video with secure remote management and the best user experience.

This enhances hybrid meetings and video conferencing sessions. It delivers improved meeting equity and reduces the burden on the AV team by offering users a true plug and play solution for their Teams and Zoom meetings.

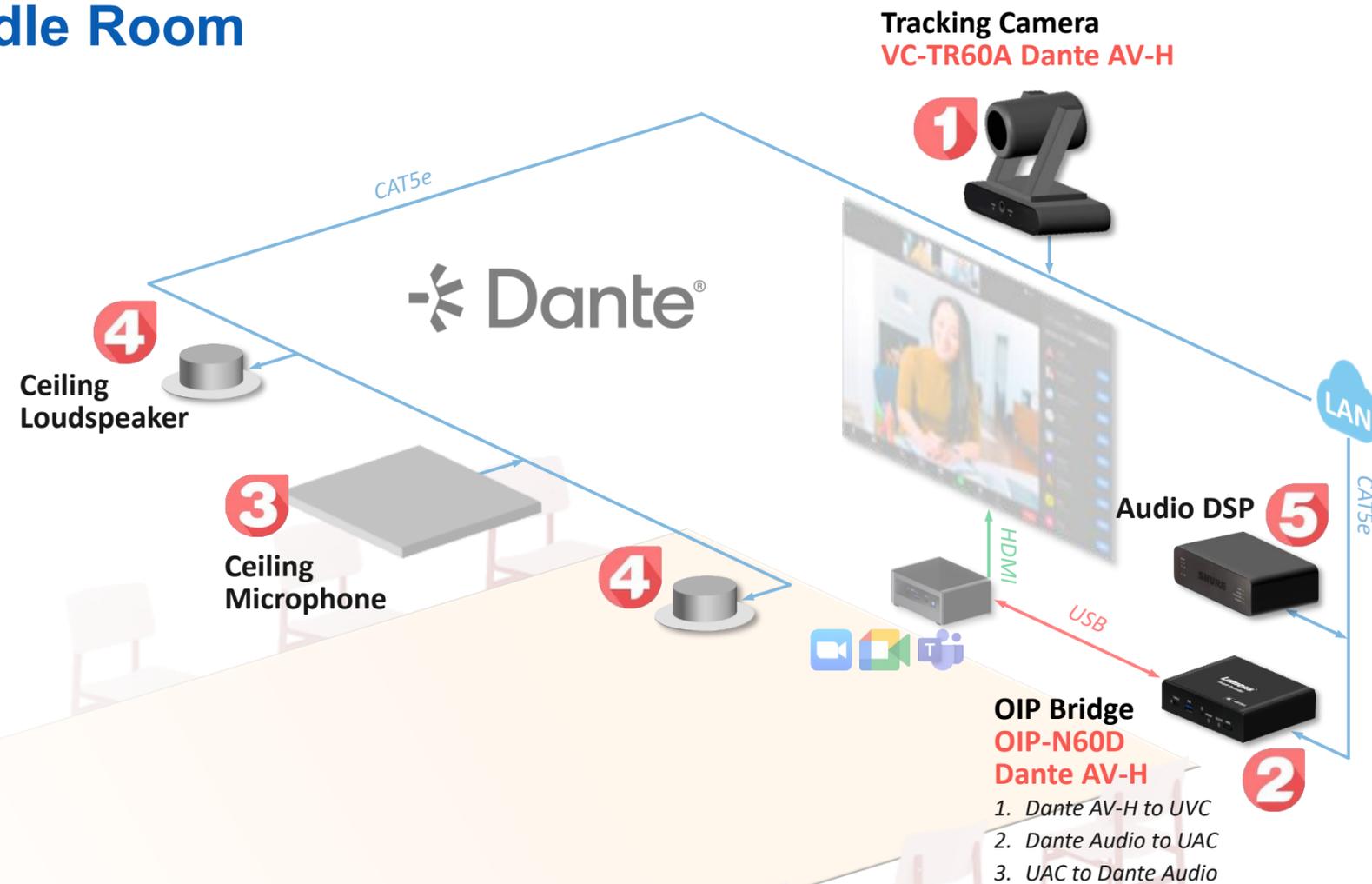
Use Cases

- SD01 Boardroom Rooms
- SD02 Huddle Room
- SD03 Flexible BYOM

Dante Support

Integration of Dante Audio and Video

Huddle Room



Coming Soon

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

Description

1. VC-TR60A supports the Dante AV-H streaming and can automatically track the speaker with its built-in directional microphone array.
2. OIP-N60D supports Dante AV-H video streaming and Dante audio encoding/decoding, outputting the audio and video via a single USB-C to the MTR or laptop.

Features

1. Suitable for small to medium-sized conference rooms using professional audio and video equipment.
2. Gives the end user a single plug and play USB-C cable to connect to their laptop for immediate use with their Teams or Zoom meeting.

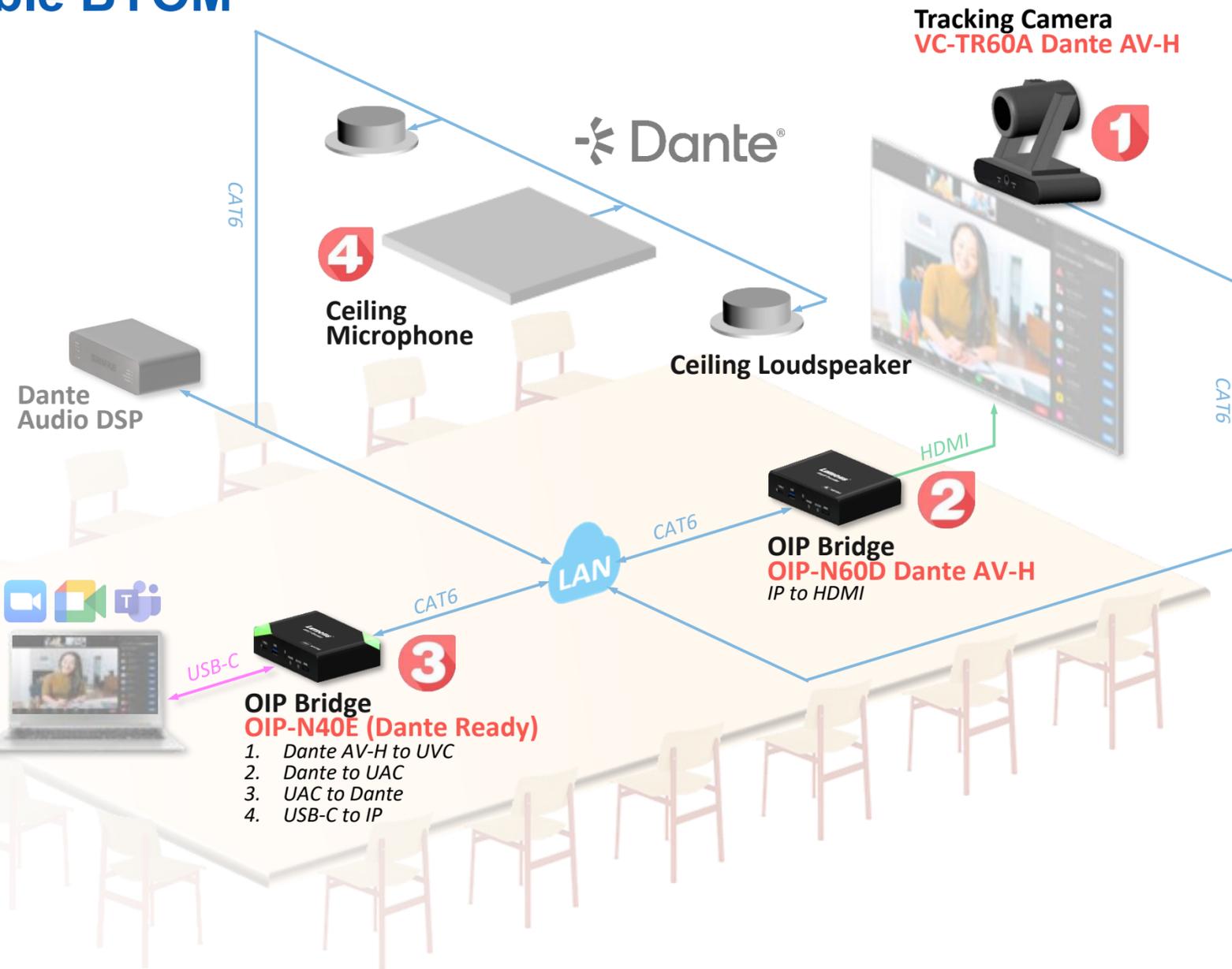
Products

NO.	Product Name	Brand	Installation Location
1	Tracking Camera VC-TR60A Dante AV-H	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
5	Audio DSP	Partner	Rack-Mounted

Dante Support

Integration of Dante Audio and Video

Flexible BYOM



Coming Soon

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

Description

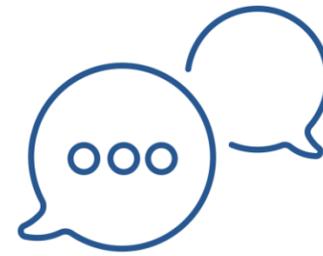
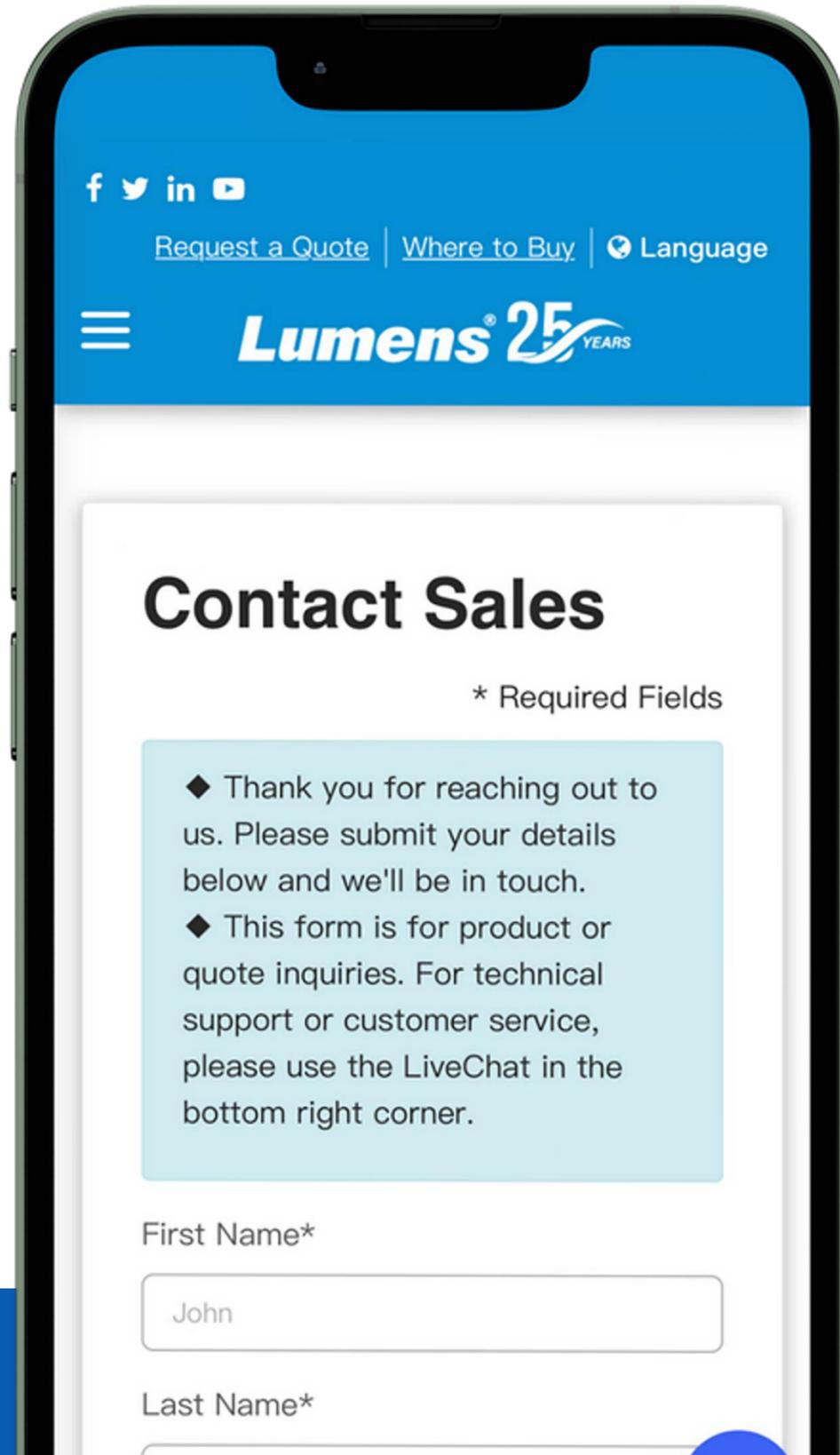
Use the OIP-N40E (Dante Ready) to add a laptop to the Dante network. The OIP-N60D Dante AV-H displays the laptop's video output to the large format monitor to create a convenient and reliable BYOM (Bring Your Own Meeting) solution.

Features

1. No software required to start a BYOM video conference quickly with a single USB-C cable.
2. Connects the Zoom and Teams meeting to the room's installed Dante devices.
3. Offers the AV team remote system management and network security.

Products

NO.	Product Name	Brand	Installation Location
1	Tracking Camera VC-TR60A Dante AV-H	Lumens	Ceiling-Mounted
2	OIP Bridge OIP-N60D Dante AV-H	Lumens	Rack-Mounted
3	OIP Bridge OIP-N40E (Dante Ready)	Lumens	Ceiling-Mounted
4	Ceiling Microphone	Partner	Ceiling-Mounted

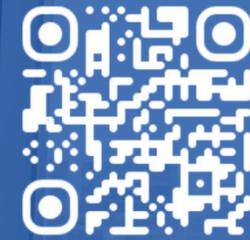


Get Support

Any questions about our solutions?
Please contact us!



**WE LOOK FORWARD TO
WORKING WITH YOU**



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