Lumens®

Your Success, Our Focus

For End Users

Application Introduction

Courtroom

January 2026

About Lumens

Lumens Digital Optics Inc., founded in 1998 and part of the PEGATRON Group, is a leader in optical and Pro AV solutions. Helping our customers grow and creating value for them is at the core of Lumens' philosophy — and that's why your success is always our focus

Courtroom Scenarios

Courtrooms are increasingly adopting video technology. They are motivated to achieve greater openness in the judicial process, to increase efficiencies by adopting remote conferencing tools, and to create a searchable archive for the record.

C1. Judge's Bench

C2. Witness Stand

C3. Counsel Tables

C4. Defendant Area

C5. Jury Box

C6. Public Gallery

C1. Judge's Bench

Lumens®

S01 Automated Tracking

Lumens' multi-camera CamConnect Pro system enhances courtroom proceedings with AI-based auto-tracking and voice tracking technology. By integrating with gooseneck microphones and multiple Lumens cameras, the system automatically switches views and focuses on the active speaker—whether it's the judge, witness, attorney, or defendant—ensuring clear and accurate visual documentation.

S02 BYOD & BYOM

Lumens' one-cable solution is designed for the flexibility required in courtroom environments. It allows AV teams to position PTZ cameras in suitable locations throughout the room to support recording and presentation needs. The system operates autonomously—simply power it on and connect a device via USB-C to deliver clear audio and well-framed video for courtroom proceedings.

C1. Judge's Bench

Lumens®

S03 Multi-Point BYOM

Lumens OIP connects all BYOM stations, enabling users to project content from any device while sharing the same camera, room microphones and displays, without the need to configure each laptop or playback device.

S05 Recording and Live Streaming

Lumens CaptureVision media processors support multi-channel video and audio recording with an easy-to-use interface. Users can capture the full session, including video of each speaker, interaction between the parties and presentation of evidence, and save it for archiving and future playback. Compatible with leading content management systems, such as Panopto and Kaltura, recordings can easily be catalogued, managed and viewed on demand.

C2. Witness Stand

Lumens®

S01 Automated Tracking

Lumens' multi-camera CamConnect Pro system enhances courtroom proceedings with AI-based auto-tracking and voice tracking technology. By integrating with gooseneck microphones and multiple Lumens cameras, the system automatically switches views and focuses on the active speaker—whether it's the judge, witness, attorney, or defendant—ensuring clear and accurate visual documentation.

S05 Recording and Live Streaming

Lumens CaptureVision media processors support multi-channel video and audio recording with an easy-to-use interface. Users can capture the full session, including video of each witness, presentation of evidence and interaction between interested parties, and save it for archiving and future playback. Compatible with leading content management systems, such as Panopto and Kaltura, recordings can easily be catalogued, managed and viewed on demand.

C3. Counsel Tables

![Lumens®]

S01 Automated Tracking

Lumens CaptureVision media processors support multi-channel video and audio recording with an easy-to-use interface. Users can capture the full session, including video of each witness, presentation of evidence and interaction between interested parties, and save it for archiving and future playback. Compatible with leading content management systems, such as Panopto and Kaltura, recordings can easily be catalogued, managed and viewed on demand.

S02 BYOD & BYOM

Lumens' one-cable solution is designed for the flexibility required in courtroom environments. It allows AV teams to position PTZ cameras in suitable locations throughout the room to support recording and presentation needs. The system operates autonomously—simply power it on and connect a device via USB-C to deliver clear audio and well-framed video for courtroom proceedings.

C3. Counsel Tables

S03 Multi-Point BYOM

Lumens OIP connects all BYOM stations, enabling users to launch video conference meetings to admit remote witnesses or defen or share content from any device while sharing the same camera, room microphones, and displays for a flexible collaboration experience.

S05 Recording and Live Streaming

Lumens CaptureVision media processors support multi-channel video and audio recording with an easy-to-use interface. Users can capture the full session, including video of each speaker, interaction between the parties and presentation of evidence, and save it for archiving and future playback. Compatible with leading content management systems, such as Panopto and Kaltura, recordings can easily be catalogued, managed and viewed on demand.

C4. Defendant Area

S01 Automated Tracking

Lumens' multi-camera CamConnect Pro system enhances courtroom proceedings with AI-based auto-tracking and voice tracking technology. By integrating with gooseneck microphones and multiple Lumens cameras, the system automatically switches views and focuses on the active speaker—whether it's the judge, witness, attorney, or defendant—ensuring clear and accurate visual documentation.

S05 Recording and Live Streaming

Lumens CaptureVision media processors support multi-channel video and audio recording with an easy-to-use interface. Users can capture the full session, including video of each speaker, interaction between the parties and presentation of evidence, and save it for archiving and future playback. Compatible with leading content management systems, such as Panopto and Kaltura, recordings can easily be catalogued, managed and viewed on demand.

C5. Jury Box

Lumens®

S05 Recording and Live Streaming

Lumens CaptureVision media processors support multi-channel video and audio recording with an easy-to-use interface. Users can capture the full session, including video of each speaker, interaction between the parties and presentation of evidence, and save it for archiving and future playback. Compatible with leading content management systems, such as Panopto and Kaltura, recordings can easily be catalogued, managed and viewed on demand.

C6. Public Gallery

S05 Recording and Live Streaming

Lumens CaptureVision media processors support multi-channel video and audio recording with an easy-to-use interface. Users can capture the full session, including video of each speaker, interaction between the parties and presentation of evidence and save it for archiving and future playback. Compatible with leading content management systems, such as Panopto and Kaltura, recordings can easily be catalogued, managed and viewed on demand.

Solutions

All Solutions

Lumens offers a complete range of ProAV solutions—from speaker tracking and BYOM/ BYOD to IP conversion, recording, streaming, and intelligent automation—designed to enhance communication, presentation, and collaboration in every environment.

S01. Automated Tracking

S02. BYOD & BYOM

S03. Multi-Point BYOM

S04. IP to USB

S05. Recording and Live Streaming

S06. Intelligent Director

Automated Tracking

AI-based Voice Tracking Technology

What is Automated Tracking?

With speaker tracking, cameras focus 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.

The multi-camera Lumens CamConnect Pro is spearheading the meeting room revolution, with AI-based auto-tracking and speaker tracking technology. CamConnect Pro pairs with directional microphone arrays and up-to 4 Lumens IP cameras to switch and focus cameras on the active speaker.

CamConnect Pro pairs with microphone systems from major manufacturers including Audio-Technica, Nureva, Sennheiser, Shure, Televic and Yamaha.

Lumens®

BYOD & BYOM

Bring Your Own Device & Bring Your Own Meeting

What is BYOD & BYOM?

In a BYOD & BYOM meeting space, participants simply plug in their own laptop and run a video conferencing session using the room's installed AV.

Lumens' BYOD & 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.

Lumens supports audio and video transmission in a range of popular formats including RTSP, Dante AV-H, Dante Audio and NDI.

Lumens®

Multi-Point BYOM

Connect From Any Seat, At Any Time

What is Multi-Point BYOM?

Lumens OIP connects all BYOM stations, enabling users to host meetings or share content from any device while sharing the same camera, room microphones, and displays 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.

Lumens OIP devices rely on the simplicity and versatility of USB-C and its DisplayPort capabilities. This single connection transmits video and audio bi-directionally and enables instant screen extension and sharing.

Lumens®

IP to USB

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 AV installed in the room.

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

Say goodbye to USB and HDMI cable length limitations and help reduce the pressure on the AV team to support every meeting. Prepare for a single cable user experience and high-quality 4K output to large format monitors.

S05

Lumens®

Recording and Live Streaming

All-in-one multi-input media production systems

What is Recording and Live Streaming?

Trials, judicial enquiries and inquests often need to be recorded or streamed for on-demand review, secure archiving, training, or real-time participation. Lumens CaptureVision media processors support multi-channel video and audio recording while also enabling seamless live streaming to online video platforms.

Users can easily capture all parties in the room, presentation content, and evidence shared with the court, switch sources in real time, and deliver a professional live experience without requiring a production crew. Compatible with leading content management systems such as Panopto and Kaltura, CaptureVision allows recorded sessions to be uploaded and organized effortlessly for future playback and documentation.

CaptureVision units feature multiple inputs including IP, NDI, XLR, HDMI, SDU and USB. Easy to use, these all-in-one units are ready for all kinds of applications.

Intelligent Director
Automated Production

What is Intelligent Director?

CaptureVision systems from Lumens simplifies the process of event production. The Intelligent Director function goes one step further, fully automating the entire process.

Intelligent Director automates your production, whether it's in-house training, team meetings, or presentations. This function analyzes the behavior of the presenter and the audience to intelligently produce a multi-camera production - automatically.

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.

Solution Partners

Lumens®

S01. Automated Tracking
audio-technica · BOSCH
nureva · televic conference
SENNHEISER · YAMAHA

S02. BYOD & BYOM
Dante® · audio-technica
BARCO · BOSCH · NDI®
SENNHEISER · YAMAHA

S03. Multi-Point BYOM
Dante® · BOSCH
NDI® · televic conference

S04. IP to USB
Dante® · audio-technica
BARCO · BOSCH · NDI®
SENNHEISER · YAMAHA

S05. Recording and Live Streaming
iris
Panopto™

S06. Intelligent Director
Panopto™

Third Party Partners

ATEN · mersive technologies inc · NETGEAR® AV · SKAARHOJ · telestream · vingloop · XILICA · ZOOM

More Details

Lumens®
Your Success, Our Focus

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.