Solution Brief

Enterprise IT Decision-Makers, AV Professionals, and Collaboration Architects

Lenovo Brings AI-Enhanced Video and Audio to Meetings

Lenovo ThinkSmart Core Gen 2 delivers meeting video and audio that engages both local and remote attendees. Lenovo partners with Huddly for audio and video, and also with Intel for AI processing

The return to office (RTO) trend in organizations worldwide has changed the way meetings work and has increased their organizational impact. One of the biggest changes is that hybrid meetings are standard procedure. These meetings extend across the world and involve multiple languages. Another big change is more meetings – especially smaller and more collaborative team meetings. These "huddles" have transitioned from ad hoc discussions in an office to more of an agenda-driven session involving local and remote team members.

With a dispersed workforce, meetings have gained importance as a way to build corporate culture. Bringing people together is an opportunity to communicate workplace culture and to spend time on team building. That means the way meetings are conducted is important.

These changes raise the issue of meeting equity or having an audio-video system that lets people participate equally. Being more inclusive of all meeting attendees encourages participation and also engages remote attendees. With clear video and audio, these remote users are better able to read the room – as if they were in the room - and to be able to see non-verbal cues and adjust their commentary appropriately.

Supporting these changed meetings with existing technology leads to inconsistent meeting experiences in many organizations, including disengaged remote participants, and complex room video and audio systems that are difficult to use and maintain. This technology has failed to adapt to real-world meeting room layouts, variable lighting, and evolving collaboration needs. At the same time, IT teams require platforms that meet strict security, manageability, and uptime expectations across global deployments.

Lenovo, an Intel® Industry Solutions Builders Partner, and Huddly deliver scalable, premium room systems built for today's hybrid workplace. Designed to simplify deployment and elevate meeting equity, these solutions enable intelligent, seamless collaboration backed by enterprise-grade support and business-class security.

Lenovo ThinkSmart Core Gen 2 + IP Controller

Lenovo has designed the ThinkSmart Core Gen 2 to transform meetings with the following features:

- Cinematic, human-centered video for hybrid meetings.
- Modularity that scales with the size and dimensions of any room.
- Purpose-built compute for secure, reliable collaboration.
- Flexible, installation-friendly design for modern hybrid meeting areas.

The ThinkSmart Core Gen 2 is a Windows 11-based, AI-optimized computer that is certified to integrate with both Microsoft Teams Rooms and Zoom Rooms. It also offers a BYOD option to allow meetings to be run using other conferencing services from a laptop. Core Gen 2 can output display resolutions up to 4K in 16:9 or 5K in 21:9 aspect ratios.

Devices plug into the back of the computer, which supports a wide array of connectivity including ports for HDMI and USC-C Ingest, dual HDMI outputs, dual Gigabit Ethernet (RJ45), USB-A 3.2 Gen 1, USB-A 2.0, USB-C 3.2 Gen 2, USB-C 3.2 Gen 2, and Lenovo's Standard Think Power connector.

The system controller contributes to the ease of use of the system. The ThinkSmart Core Gen 2 is available with either the ThinkSmart USB Controller or the Lenovo IP Controller, both of which feature an intuitive 10.1-inch touch display with integrated motion detectors. With 10 touch points and the familiar Zoom Rooms and Microsoft Teams Rooms interfaces, the controller is easy to navigate. The Lenovo IP Controller can be installed into table electrical boxes, addressing the growing demand for HDMI on table or it can be wall mounted using an additional accessory.

ThinkSmart Tiny Facilitates Small Meetings

Lenovo has designed the ThinkSmart Tiny for huddle or touchdown rooms where smaller teams can meet for collaboration or brainstorming.

The ThinkSmart Tiny computer can output resolutions up to 4K60 and is certified for use with Microsoft Teams Rooms. The system features 16GB of memory for smooth video feedback and up to 256GB of storage for presentations or other applications.

Controlling the system during a meeting is easy with the intuitive 10.1 inch ThinkSmart USB Controller that enables meeting control and content sharing.

The ThinkSmart Tiny is powered by the 13th Gen Intel® Core™ i3 processor.

High Resolution AI Audio and Video

Lenovo has partnered with Huddly to provide high-resolution, AI-driven audio and video capabilities for the ThinkSmart Core Gen 2.

The Huddly® C1™ videobar uses on-device AI to frame and direct meeting video and audio in real time with no lag, delivering sharper video and audio for both in-room and remote attendees.

Speaker Mode keeps the camera focused on the active speaker. Collaboration Mode smartly alternates between speaker and listener shots to keep brainstorm sessions engaging. Group Framing and Manual Framing are also available.

Framing Zone lets administrators define the room's physical dimensions so framing stays focused on participants and ignores distractions such as windows behind the seating area.

Audio is clear thanks to a 16-microphone array that picks up voices evenly across the room, combined with on-device AI noise and reverb reduction to ensure meeting equity and accurate AI transcription downstream.

Huddly C1 is Certified for Microsoft Teams for small and medium-sized rooms. For larger rooms, Huddly C1 Crew™ extends coverage with Huddly® Crew™ Add-On Cameras, each a smart, edge-AI device networked over Ethernet and coordinated by Huddly's AI director as a single system.

Each camera has a 6K image sensor, captures in 1080p Full HD, and offers five-times digital zoom for clear shots even of people at the back of the room. The cameras connect via a 1GbE Power over Ethernet switch to an existing Huddly C1 videobar through the extend port.

ThinkSmart Core Gen 2 Offers Scalability

The ThinkSmart Core Gen 2 can be configured to cost-effectively improve meetings in all room sizes. Figure 1 shows the elements needed for a small room that measures 10' x 10' (3m x 3m). One ThinkSmart Core Gen 2, an IP controller and one Huddly C1 located at the front of the room are what is required to get full room coverage.

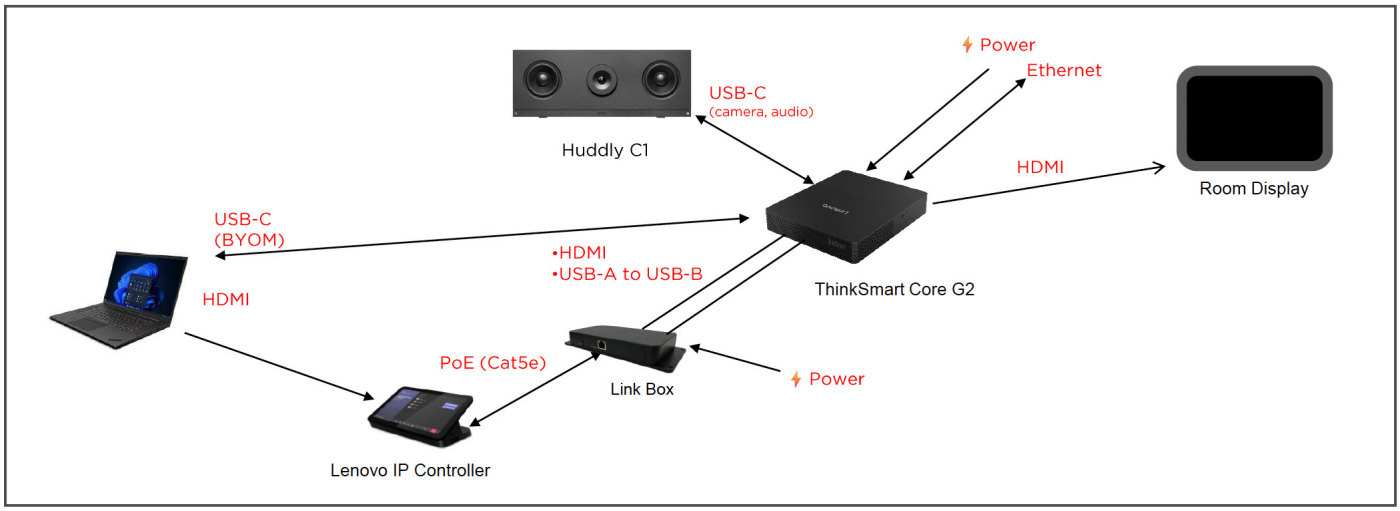


Figure 1. ThinkSmart Core Gen 2 small room system configuration.

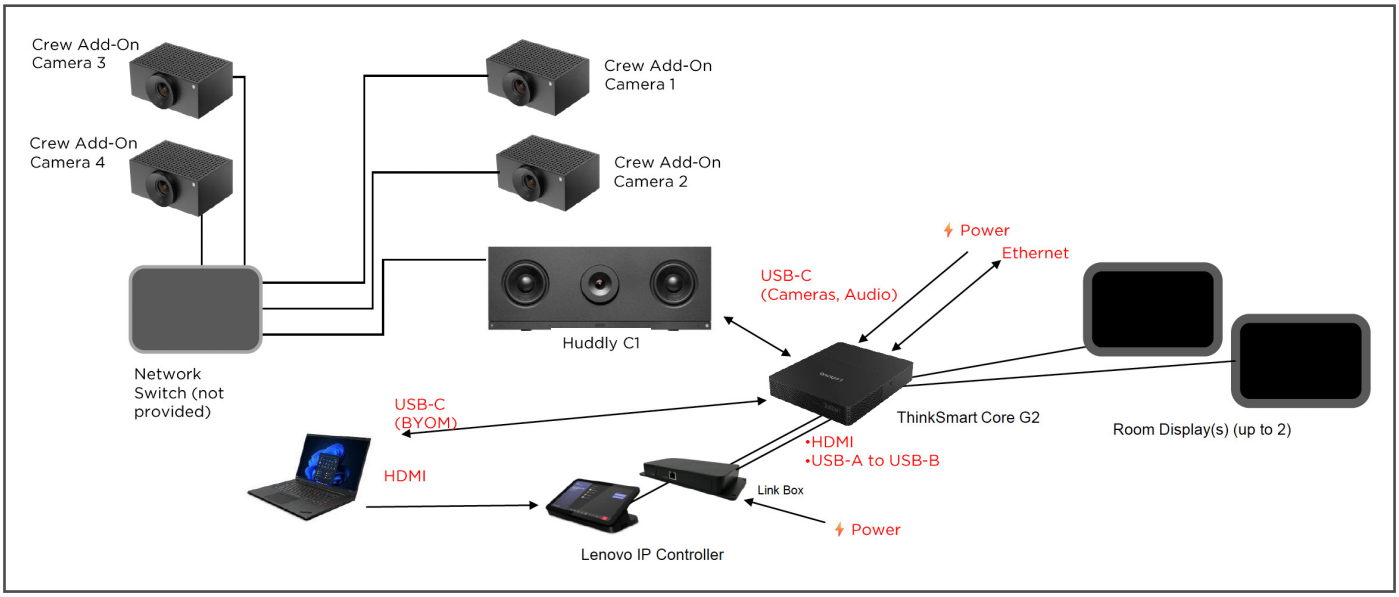


Figure 2. ThinkSmart Core Gen 2 large conference room configuration.

The video and audio are tuned to capture a 120 degree angle, which is ideal for a small table with up to four people.

Large Conference Room Configuration

Figure 2 shows the configuration needed to serve a room that is 15 feet (4.5m) wide by 32 feet (9.7m) deep and sits up to 16 people. To get complete coverage, the ThinkSmart Core Gen 2 and Huddly C1 are at the front of the conference table, and up to four Huddly Crew Add-On Cameras are located on the walls at the front corner of the room and in the middle of the room.

This configuration flexibility can also extend the useful life of the conference system as new cameras and other features can be integrated into the system, and because Huddly devices are software-defined, firmware updates continuously add new capabilities, reducing whole-system replacement and TCO for Enterprise IT.

All of this equipment can be controlled using the Lenovo IP Controller which features an intuitive interface that makes controlling the system easy.

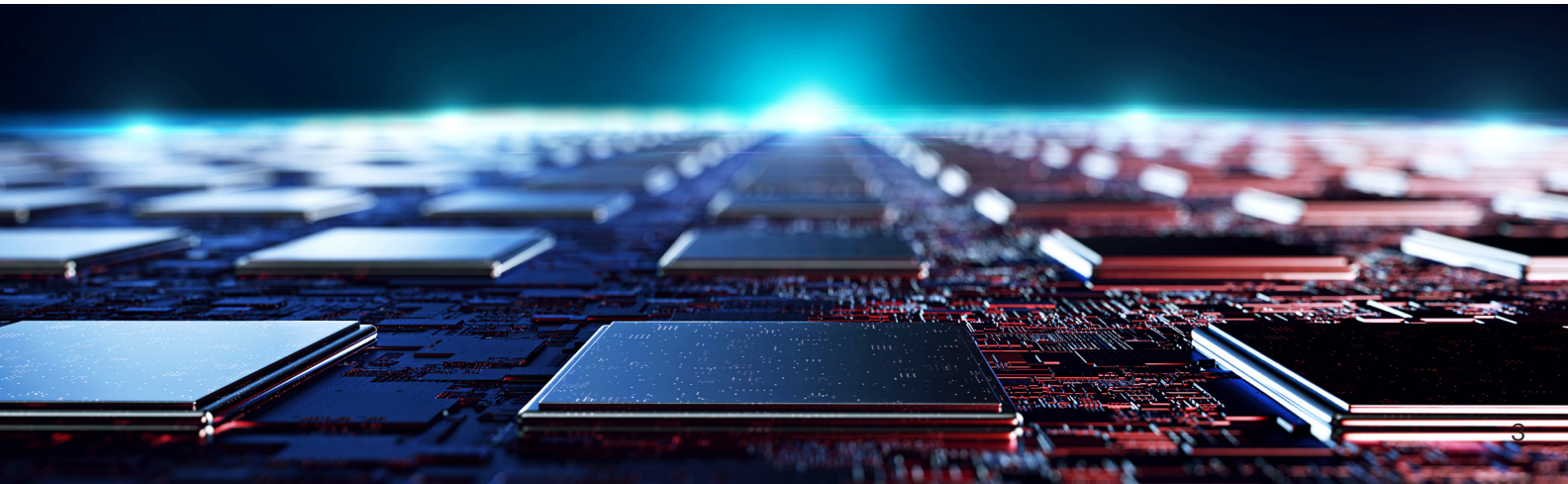
This allows the Huddly AI director to see the whole room and to provide the full range of sound and video intelligence for all of the meeting attendees.

AI Acceleration from Intel® Core™ Ultra Processors

Intel® Core™ Ultra processors power ThinkSmart Core Gen 2, delivering high-performance compute optimized for AI-enhanced collaboration. With built-in AI acceleration, graphics acceleration, and efficient CPU cores, Intel Core Ultra processors enable real-time video framing, intelligent speaker tracking, noise reduction, and advanced image processing while maintaining low power consumption and system stability. Huddly's cameras and collaboration workloads run AI locally, reducing latency and improving reliability for consistent meeting experiences.

Intel vPro® Platform

Intel vPro brings enterprise-grade security, remote manageability, and platform stability to ThinkSmart Core Gen 2, making it ideal for large-scale deployments and IT-managed environments. Hardware-based security features help protect firmware, operating systems, and credentials, while out-of-band remote management enables IT teams to diagnose, update, and remediate devices even when powered off or unresponsive. This helps to reduce TCO, minimize downtime, and simplify large rollouts.



Conclusion

Meetings have taken on a new level of importance that demands technology that truly engages participants. Lenovo's ThinkSmart Core Gen 2, powered by Intel Core Ultra processors, and Huddly C1 and Crew cameras deliver AI-driven collaboration with real-time video intelligence, enterprise-grade performance, security, and scale. Seamless integration simplifies deployment while transforming every space into an autonomously intelligent environment, creating a future-ready meeting solution that is smarter, more capable, and greater than the sum of its parts.

Learn More

Lenovo ThinkSmart Tiny + ThinkSmart Controller

Lenovo ThinkSmart Core Gen 2 + IP Controller

Huddly C1

Huddly Crew Add-On Cameras

Intel® Core™ Ultra Processors

13th Gen Intel® Core™ i3 Processors

Intel vPro® Platform

Intel® Industry Solutions Builders

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