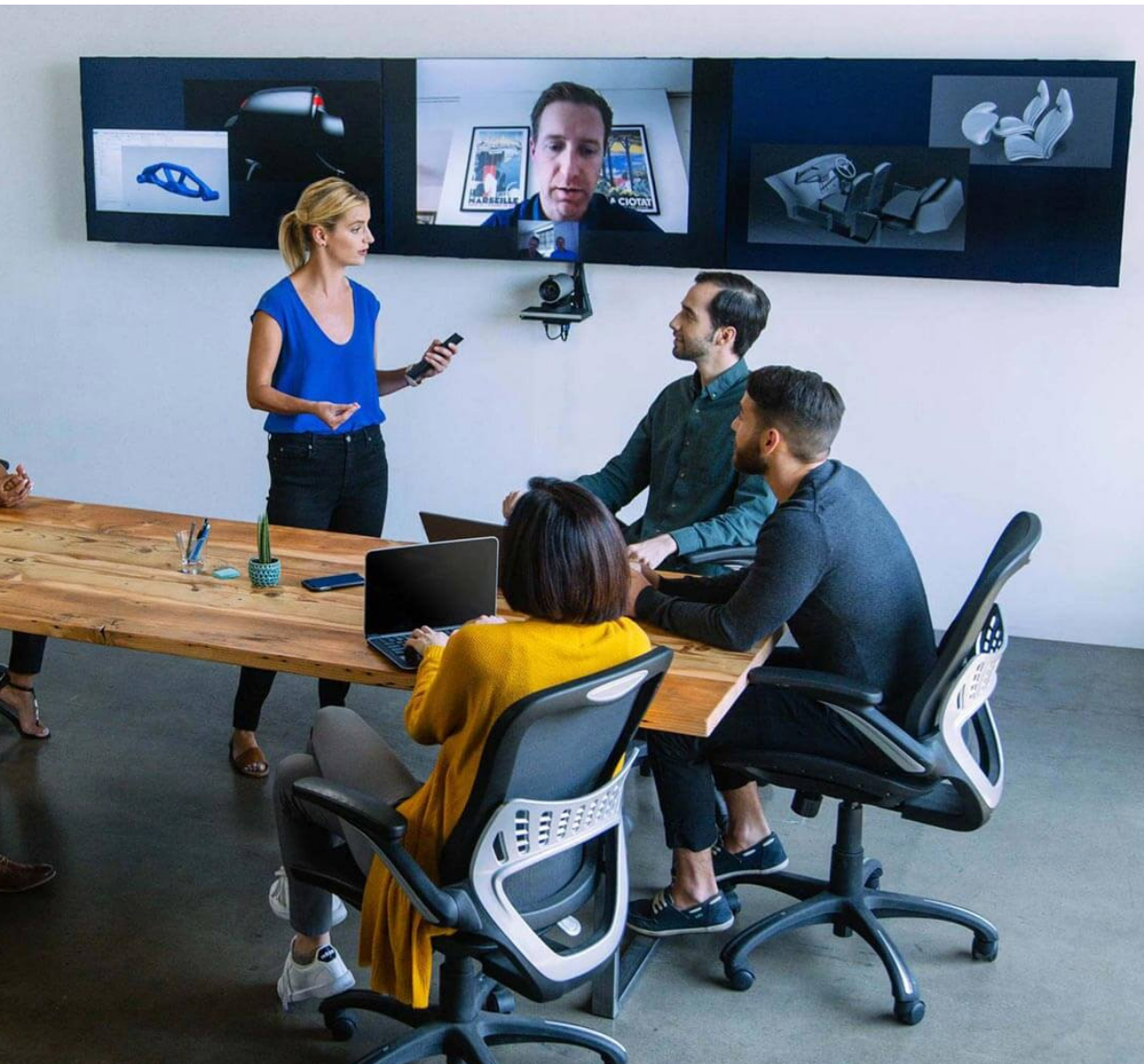


DECISION SPACES

Software Defined Audio Visual (SDAV): A Suite of Technologies With Various Applications



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 - Software Defined Audio Visual (SDAV)
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Summary



The audio and video industry has a long history of invention. Modern society has an incredible potential for communication and to someone beamed in from the twentieth century, much of today's A/V technology would probably appear like magic.

The march of innovation continues to be a driving factor in the A/V industry, and it's absolutely amazing how many significant advances are hidden behind every major piece of A/V technology. The history of technological advancements and breakthroughs is far too long to be covered in a single whitepaper, however, there are a few noteworthy technological solutions that we have tried to pen down in this document.



Need for AV Solutions

The requirement for functional audiovisual capabilities to suit business needs is universal, regardless of the size of your firm. In terms of technology and software, the sky is the limit with modern systems.

Larger companies that need to connect from various conference rooms across the world will need a more robust technology, adaptability, and multifunctional platform to accomplish their ICT goals.

Smaller businesses that simply use video conferencing on occasions will require a slightly varied audio-visual set-up.



At AllWave, we work with end-users and space planners to uncover their utility and business objectives. We provide a wide range of technological solutions which prove to be the greatest fit for your systems.

The interaction between your IT provider and AV supplier has become increasingly important as audiovisual devices have rapidly evolved and been integrated on the IP network, wired/wireless, and mobile infrastructures. Thus, the gap between the IT provider and AV supplier has blurred enough for the integration of both on the same ecosystem.



Software-Defined AV

As digital transformation is on the rise, more flexibility and adaptability along with integrated visual apps and services will be required by the enterprises to not only sustain but to advance their business processes.

Let's look at the key reasons why companies are adopting software-defined audiovisual solutions.

When we talk about the evolution of audio-visual solutions. We started with composite video, s video but these solutions rarely exceeded about 180 lines of resolution of the actual color. Then we moved to VGA, (Video Graphics Adapter), HDMI (High Definition Multimedia Interface), and connectivity ports.

At present, the most enhanced connector is USB-C. USB-C helps data transfer. USB-C is linked to numerous powerful new technologies, such as Thunderbolt and USB Power Delivery, that have the potential to revolutionize how we think about our gear and operate in the office, on the road, and at home.

Earlier, hardware pieces like switchers & controllers and encoder and decoder systems were required to do these functions, but these protocols have limitations in terms of the distance to move to.

Then we discovered that the encoding and decoding devices can be software and we just have to connect with just a switch.

According to market data, the basic semiconductor market will be constrained as of mid-2022; the market for complex semiconductors (microcontrollers, microprocessors, and FPGAs, to name a few) will be constrained throughout 2022. Thus, IT leaders are adopting more software applications for their visual communication needs.

This is where **Software Defined Audio Visual (SDAV) solutions** come into the picture!

A software-based AV system combines audio, video, and control processing onto a single piece of hardware hosting a software, considerably reducing integration complexity and making monitoring and management easier for IT teams. They don't just need a software application to ensure the flexibility, security, and interoperability required for modern business operations; they need a software platform that connects applications with infrastructure and IoT and AI services for better management, scalability, and integration into their business operations.

Hardware-based AV systems are less versatile and flexible than software-defined solutions for the future. The integration and dynamic distribution of information and content to many places have grown progressively as we move toward a hybrid work model and rely on greater automation from systems. Implementing a platform also ensures centralized management and consistent security throughout an organization's infrastructure.

Latest SDAV Technology Solutions

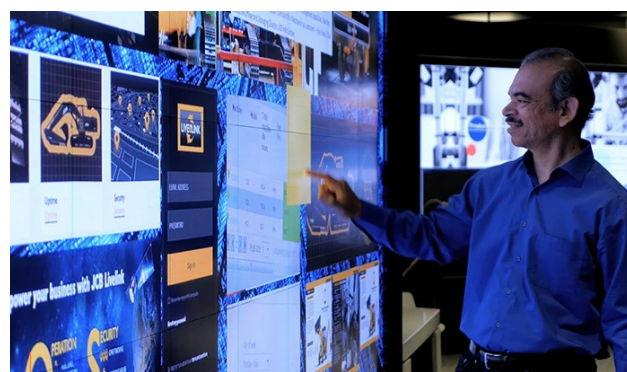
Integrate reliable audiovisual and unified communications into your decision spaces to make quick and effective decisions with your team. AllWave creates board room audiovisual solutions for today's fast-paced world's critical decisions, leading to more efficient meetings and improved decision-making.



Hiperwall

Immersive Video Wall Solution

Make critical decisions, spread awareness, and have easy collaboration among teams



Prysm

Solution for Best Content Experience

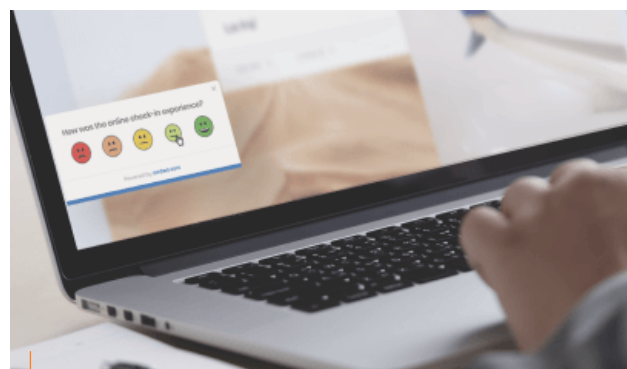
Redefine the meeting experience with content-rich presentations



NowSignage

Cloud-based Digital Signage Solution

Communicate with your target audience in a flexible & cost-efficient way



Ombea

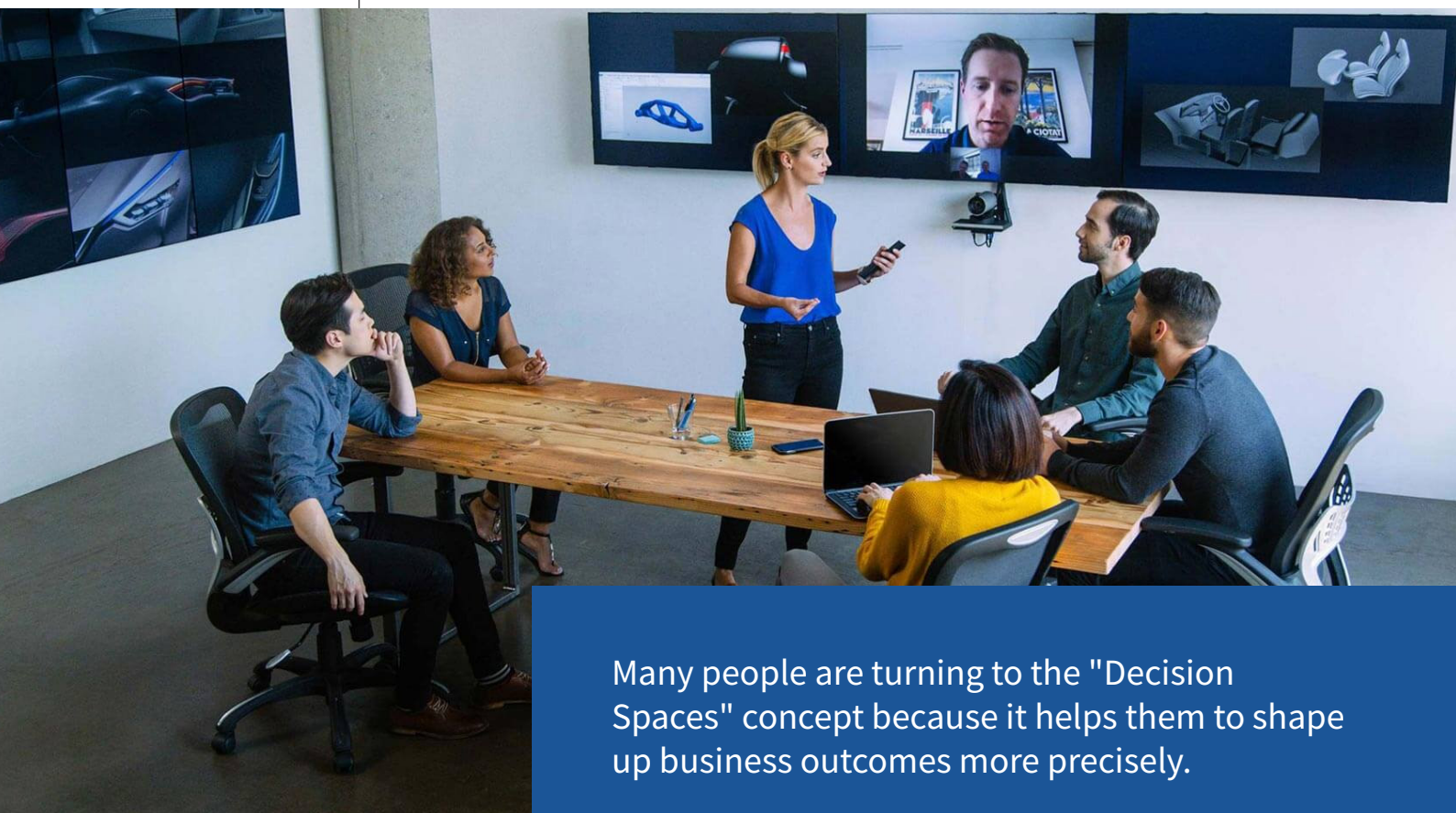
Capture Feedback Via a User-friendly Interface

Virtual and seamless collaboration for hybrid teams to connect from anywhere

Decision Spaces



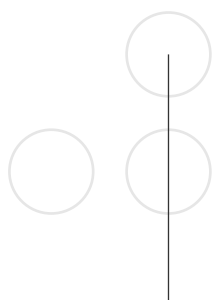
Decision spaces are replacing meeting rooms and boardrooms as companies today look for spaces that enable higher management and other teams to make analytical decisions easily.



Many people are turning to the "Decision Spaces" concept because it helps them to shape up business outcomes more precisely.

Your team will be able to accomplish their most critical work in a graphically dynamic meeting room created by Decision Spaces. The integration of decision spaces with SDAV solutions will simplify and streamline corporate operations and collaboration, allowing for speedier decision-making.

A well-designed, simple-to-use audiovisual system will ensure that everyone in the room, as well as those attending remotely by audio or video conferencing or on the systems, has a unique and equal meeting experience. Web and video conferencing can be used to share large screens with excellent image quality that can be easily watched from the sides and back of the room.



Solutions for Decision Spaces:

HiperWall

Hiperwall software helps the end-users to display content from their individual Laptop or PC devices wirelessly via Hiperwall sender or Browser software. The user can show a live feed from the IP Cameras installed in the premises or factory.

Interactive Displays

The Interactive Displays come with an inbuilt PC, which lets the user present, annotate and do video conferencing.

Streaming Device

Streaming and Recording device can be used to record the sessions. These devices support multiple camera feeds that help captures different camera angles.

Whiteboard Capturing Device

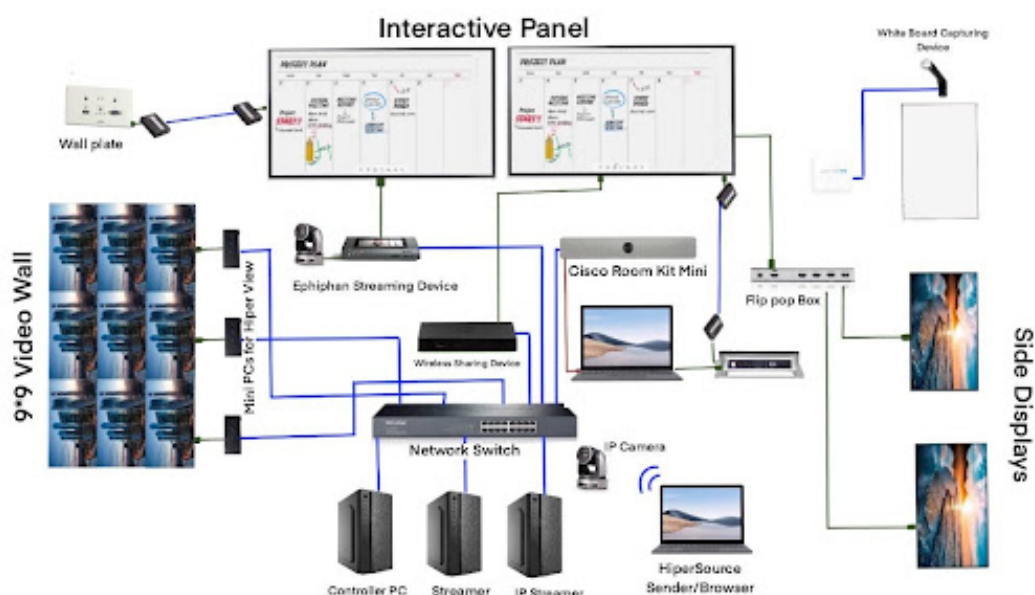
The White Board Capturing device helps the user to use the traditional whiteboard and capture the same data in a VC meeting. Remote participants can access it by simply accepting the invitation and putting in their login Credentials.

Wireless Sharing Device

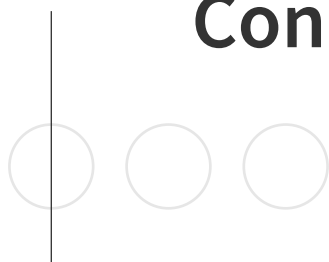
The Wireless Screen sharing device lets the user mirror their BYOD screens wirelessly, eliminating the need of putting cables to make the meeting room clutter-free.

All-in-one VC Devices

The All-in-one VC device comes with cameras, microphones, and speakers built into a single form factor that can be operated easily by a remote or wireless keyboard mouse.



Conclusion



AllWave AV helps to deliver a flexible collaboration infrastructure with future-ready solutions wherein your entire team can access more intuitive tools to conduct meetings, presentations, and training sessions. Your teams will spend the majority of their time in decision spaces, making the critical decisions that will influence the path of your day-to-day operations.

With enhanced audiovisual and video conferencing technology, decision spaces are created with both onsite and remote workers in mind. While designing a space, we keep in mind the user experience and consider all factors in visual design, interface design, aesthetics of the space, viewing angles, audio distribution, and much more.

Many groups buying technology have found AllWave AV to be a true partner who understands what and why each member has distinct needs and wants from the project. Years of corporate IT productivity and communications experience influence our solution integration and partnerships with business professionals.

We make sure that technology is successfully deployed and utilized for increased business results. Our AV expertise has enabled us to collaborate with IT providers, CEOs, and operations teams to develop successful AV solutions.





all-waveav
find value in everything we do

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