



DESIGN GUIDE
HUDDLE SPACE



AKG

AMX

ES



dbx



lexicon

Martin

Soundcraft

STUDER

THE LIFE OF BUSINESS

Business has a life of its own. People, technology, ideas, tasks, spaces, and even the coffee add to business life. When it's working well, it's like a precision-tuned engine. At HARMAN, we believe in designing technology that supports the lifeblood of your business - meetings. We support you with a solution that keeps them running smoothly at peak output and efficiency and without all those pesky technical delays.

Several factors contribute to an optimal working environment, not the least of which is technology that aids in the collaboration of today's remote, mobile, traveling workforce. People are a company's greatest asset, and their ideas are wherever they are, so meeting them where they work is critical. Enter, the rise of the huddle space.



We weave focused technology into everyday business experiences to bring productivity and joy to make everyday business less like “business” and more like life.

INCREASING COLLABORATION IN DECREASING SPACES

Gone are the days of pulling a small group into an office for a quick meeting. Rising real estate costs are increasing pressure to optimize space. In the 2000s, facility managers typically thought they needed 200 to 400 square feet per person to build an effective office workspace. Today's standard workspace averages a little more than 190 square feet per person and could hit a mere 60 square feet in the next five years (GSA, Office of Real Property Management Performance Measurement Division, 2011). Global estimates for Europe and Asia are even less, already as little as 50 square feet in many locations. As space decreases, so does the availability of private offices. “Can you come see me in my office” has become: “Let's find an available meeting space to discuss this.”

Space reduction is just part of the story. There is also an increase in workplace collaboration. Companies such as Google, Unilever and BT (who are engaging in agile-based working) have maintained an outstanding reputation as employers with stimulating workspaces created to show employees they are valued and highly skilled staff have remained loyal, staying longer and performing better (Office Principles, 2017). In fact, research conducted by Mitie, a leading facilities management company, found that by 2020, more than 70 percent of UK offices will be agile workplaces (Higginbottom, 2016). What this really means is employees will be empowered to work where, when and how they choose with maximum flexibility and minimum constraints.

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Now, quick collaboration involves finding an available meeting space and engaging face-to-face or through a videoconference. And, it needs to happen without workflow interruption with technology that works as expected. The need for this type of meeting space is only anticipated to increase as more millennials enter the workforce. Videoconferencing is not just on the rise, it's the new normal.



Videoconferencing is the New Normal.

With remote workers on the rise and more millennials joining the workforce, videoconferencing usage is not just rising, it's the new normal.

Work-at-home among the non-self-employed population has grown by 103% since 2005 with 3.7 million employees now working from home, at least half of the time. And, with employers staged to save \$11,000 per mobile employee, that trend is gaining support. (Global Workplace Analytics, 2017)

61 percent of millennials frequently use videoconferencing technology as compared to just over 40% for preceding generations. (Burnham, 2016)

WHY SINGLE USER DEVICES FAIL FOR GROUP COLLABORATION

Grabbing a laptop or mobile phone and finding a quiet corner is not optimal for group collaboration. These devices are designed for individual use and lack the professional features that streamline workflow. The inability to hear and see everyone involved stops the rhythm of business and frankly, just makes folks want to leave the conversation as quickly as possible. Combined with the fact that the number of larger conference rooms is declining and becoming much harder to find, the number of small collaboration spaces is growing. Small meeting spaces or huddle spaces are purpose designed for small groups and quick collaboration.



There are now 5 huddle spaces for every single larger meeting space, and a reduction of almost 50% in overall square footage per worker.

MEETING SPACES DESIGNED FOR INSPIRATION

Modern meeting spaces are often outfitted with contemporary furnishings meant to be inviting and support open communication and creativity. Why? It's easy. If the team is more comfortable, ideas flow more easily. At HARMAN we understand the importance of aesthetic technology design and are designing our meeting space solutions to blend seamlessly and comfortably into a variety of spaces.

“Our sense of sight enriches our experience, as we perceive the light and luster that activate and enliven space. Our sense of touch elicits response through the tactility of soft, plush textiles or that of strongly textured wood and stone. Such contrasts or dualities create beautiful and meaningful spaces that conspire to keep people engaged and refreshed.”

Materials in the workplace can help balance the need for quiet versus communal space, as well as stimulate creativity. The authors suggest using:

- Earthy, metallic mineral tones and colors found in nature
- Warm and cool tones together
- Strong or extreme textures that mimic nature
- Patterns found in nature
- Natural fibers such as wool and linen
- Natural materials such as wood, metal, stone

(Dishman, 2015)

HUDDLE SPACE TECHNOLOGY THAT INSPIRES PRODUCTIVITY

One Click Skype for Business meeting launches, intuitive document sharing, pristine audio and crisp video are all key components of the HARMAN huddle space platform. At HARMAN, we believe in designing technology that works as it's expected to, not just to support productivity but to inspire creativity.

There's a lot of psychology behind effective communication. When issues begin to happen with audio and video, not only is it frustrating, it can actually alter the outcome dramatically. That's why it's so important to take technology seriously and choose products that work in harmony to support the human element of creativity. Audio, video, conferencing, sharing and scheduling are critical to support the team while acquisition, installation and management are important to those designing and maintaining the technology.

“People in organizations typically spend over 75% of their time in an interpersonal situation; thus it is no surprise to find that the root of a large number of organizational problems is poor communications” (Edward G. Wertheim, 2008). The AMX Acendo Meeting Space Collaboration System ensures that staff are using the right technology to ensure effective collaboration.

AUDIO CONSIDERATIONS



acendovibe
WITH SOUND BY 

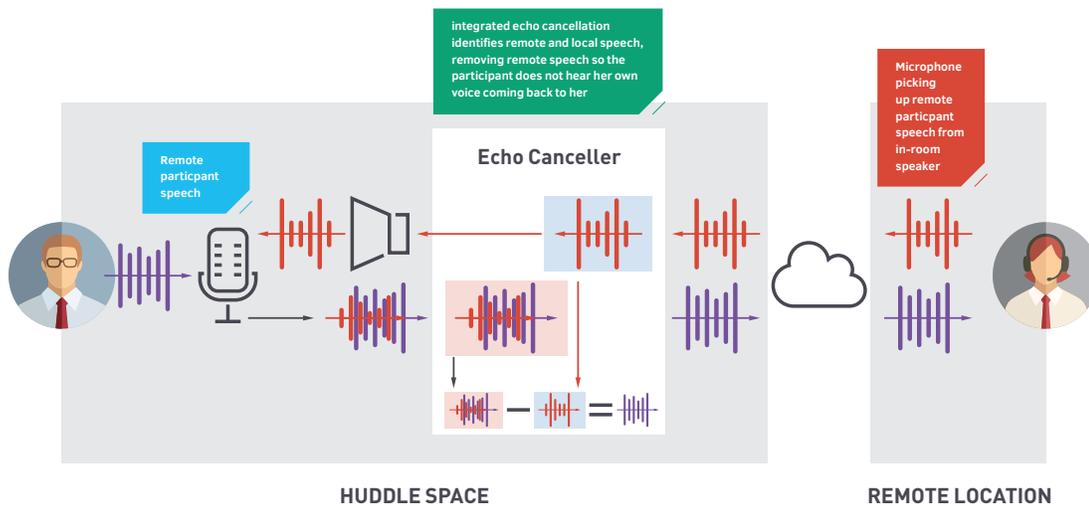
Acendo Vibe Conferencing Soundbars are purpose-built for professional environments, with just the right mix of videoconferencing features and modern aesthetic design to empower highly productive conferences and collaboration.

Precision-tuned for Voice Clarity

With over 60 years of experience and countless industry awards, JBL knows a thing or two about audio reproduction. The Acendo Vibe is finely tuned to ensure that conference audio sounds the best it can. Featuring outstanding JBL amplification and playback quality that guarantees crystal clear audio that can easily be heard by everyone in the room, it is the professional meeting space soundbar backed by the same audio technology selected by the world's best vocalists. We aren't saying that a disco ball will lower from the ceiling during your meeting, but we're confident the Acendo Vibe will leave your meeting attendees just as excited to take care of business.

Ensuring Conferencing Echo Is Never Invited to the Discussion

Echo is defined as a reflection of sound that includes a perceptible audio delay. Similarly, conferencing echo is caused by audio coming out of the speaker, being picked up by the microphone and being retransmitted back to the source. Acendo Vibe expertly identifies conferencing echo and removes it from the audio being sent back to source.



Without huddle space echo cancellation technology, everyone on the other end of the conference will hear everything they say repeated again and again in an annoying, distracting loop. We all work with that person who likes to hear themselves talk but nobody likes to hear their own echo. It disrupts train of thought and makes it almost impossible to focus on the business at hand.

Far Field Microphone Intelligence

Vibe's microphones use a sophisticated algorithm to intelligently detect each of the voices in the room. It knows the location of each speaker and directs the appropriate level of microphone pickup in the direction of the current speaking voice, ignoring other sounds in the room. So go ahead, invite that pencil tapper to your meeting. Vibe will make sure the current speaker is always the focus of your conference.

Ambient Noise Reduced to Zero

What about getting rid of all that ambient noise like the humming, blowing HVAC system or traffic bustling in the background? Acendo Vibe instantly recognizes that ambient background noises are not human voices and appropriately filters them out.

Duplex Communication: Ensuring Everyone Can Speak at Once

Acendo Vibe supports duplex communication because let's face it – most conferences involve more than one person speaking at a time. In fact, typically, meetings involve multiple speakers at once. It is important that the conferencing system supports the natural flow of conversation, rather than impose the difficulties experienced with a rigid, choppy “back and forth” communication flow.

“Greater amount of simultaneous speech is a more effective way of distributing information (because) problems and misunderstands are clarified more quickly”.
(Slovak, 2007)

Bluetooth-enabled to Turn Single Conversations into Group Conferences

Your business conversation started on a cell phone but needs to move to a group conference? Not a problem. Acendo Vibe is Bluetooth-enabled so audio can be easily picked up and turned into a conference. And, even better, it forgets being paired to your phone when you hang up and leave the room. So you don't have to worry about everyone in the office hearing your next conference with your toddler.

USB Empowers Instant Acendo Vibe to Core Integration

Through a simple USB connection, you can use Acendo Vibe in conjunction with the Acendo Core Meeting Space Collaboration System for a complete conferencing solution, including One Click Skype for Business meeting launches.

VIDEO CONSIDERATIONS

Go Ultra-Wide

With an ultra-wide 120° camera field of view, Acendo Vibe picks up everyone in the room. This is particularly important in the smallest huddle spaces when team members may be seated close to the display and on the outer edges. It's crucial that the speaker see everyone in the room to monitor non-verbal cues and react appropriately towards a successful outcome.

Built by the World Leader in Control and Video

AMX by HARMAN has a legendary, award-winning reputation for pioneering some of the most innovative solutions in video distribution and control. With additional, integrated professional video and control features like CEC display control, dual monitor support and HDMI connections for BYOD scenarios, the Acendo Vibe is the head and shoulders choice for empowering the world's most technically advanced and aesthetically pleasing conferences.

Did you know? A large percentage (studies suggest over 90%) of the meaning we derive from communication, we derive from the non-verbal cues that the other person gives. Often a person says one thing but communicates something totally different through vocal intonation and body language. (Edward G. Wertheim, 2008)

CONFERENCING CONSIDERATIONS



One Click Skype for Business Meetings

Enter the meeting space, click the touch-enabled room display and start the meeting - what could be easier? With direct integration with Microsoft Exchange, Acendo Core delivers an interface to the room display that shows the current state of the room. If a meeting is scheduled to start, simply click a button to get going and on with business.

Easy Document Access and Viewing

Many enterprises choose to have all of their documents stored on network drives. If a user authenticates into a meeting, they will have access to content stored on those drives. As Core is always on, there is no boot-up waiting time, allowing users to access their network content quickly and enhancing workforce productivity.

Users can present content without bringing any devices to the room. Users simply walk into the room, start a session, navigate to their document (USB drive, network drive, or the web), and start their presentation.

By natively integrating with Active Directory, users can authenticate into Acendo Core and access network drives. Furthermore, administrators have the option to require authentication in order to use Core for secure document and network access. And, at the end of the meeting, Acendo Core purges the documents. This not only increases security, it also eliminates the need for anyone to monitor and purge documents left behind, which would be needed if using a typical meeting room PC.

Onscreen Scheduling

At a glance, Acendo Core users can see the availability status of the meeting room. From the start screen, users can book the room if it is available, extend an existing meeting if there are no conflicts, start their scheduled meeting, or book a room nearby, quickly minimizing wait time and improving productivity.

Start on Time, Finish on Time

Meetings start on time because the previous meeting ended on time. Acendo displays an onscreen warning when the meeting is about to end so attendees have an opportunity to wrap up their meeting effectively without creating a delay for the next group.

MOVING BEYOND THE HUDDLE SPACE

For over 60 years HARMAN has been developing world-class, award-winning technology solutions that set the standard for innovation and dependability. Corporate Enterprises throughout the world leverage HARMAN technology to harness the power of various, disparate technologies by ensuring they work reliably and cohesively, while allowing users to focus on communicating effectively.

By offering a complete solution of best-in-class audio, video, lighting and control products, from the world's leading brands, including AKG®, AMX®, BSS®, Crown®, dbx, DigiTech, JBL Professional, Lexicon, Martin, Soundcraft, and Studer; customers can trust the system will meet their needs, work the first time and continue to work well for years to come.

We invite you to explore HARMAN's full breadth of enterprise solutions, designed to support a wide range of requirements and applications at: pro.harman.com/applications/corporate.

SOLUTIONS FOR THE WELL-EQUIPPED BOARDROOM



AMX Acendo Book Scheduling Panels

These standalone panels include everything you need to locate and book meeting spaces quickly and easily. Integrate directly with room scheduling software like Microsoft Exchange, Office 365, and Google Calendar. User interface background color and built-in room availability bars change between red and green so users can easily locate and book an available room directly from the panel or quickly locate the nearest available room or the next available time.



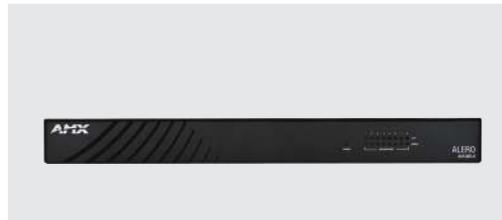
AMX HydraPort Architectural Connectivity

HydraPort is the perfect solution for attractive, effective cable management. Accessible from all sides of the table, it has a very low-profile, flush-mounted design, and a much slimmer under-table depth than its competitors. Choose from three chassis sizes and an integrated touch panel model. You can customize your HydraPort with your choice of over 50 AV, power and control modules; most available in a retractable version, to create a connectivity solution perfect for any space.



AMX Incite Digital Video Presentation Switchers

These next generation presentation switchers combine award-winning AMX control and signal distribution with legendary Crown, JBL, and dbx audio amplification and processing. Incite offers the ability to present in single screen, side-by-side, top-bottom, and picture-in-picture and includes professional transition effects. Support, scaling, and distance transport for 4K/60 4:4:4 and HDCP 2.2, as well as lower resolutions, ensures easy support for visiting devices. Advanced features include DSP with independent 10-band parametric EQ, independent input gain adjustments, variable compression, Advanced Feedback Suppression™, and DriveCore amplification technology means the best in crisp, clear audio to fill the room.



AMX Alero Web Conferencing Audio Mixer

Ideal for medium to large meeting spaces, Alero is a dedicated microphone mixer for up to eight microphones and was designed specifically for web conferencing applications such as Lync or Skype. Alero also supports VTC and audio conferencing systems and features USB audio output to be used as a microphone expansion unit for PC-based web conferencing applications. Alero is also extremely simple to setup and configure without training using the Onboard Web Configuration Tool. Active adjustment of audio levels and settings, acoustic echo cancellation, and automatic gain control are all included to empower crystal clear web conferencing audio, every time.

DESIGNING THE CONNECTED GLOBAL ENTERPRISE



Networked AV

As the leader in Networked AV, we understand that deploying multicast data that is constantly streaming over an existing IP network is no small challenge. We have a staff of highly qualified networked AV engineers who have deployed thousands of video over IP solutions worldwide, and a wide range of platform choices, including proprietary minimally compressed, JPEG2000, and H.264. We understand networks, and we understand how to distribute content efficiently and securely.



Centralized AV

We have a range of expertly designed, centralized AV solutions for dedicated AV switching and distribution that can be counted on for clarity, immediacy, security, reliability, redundancy, and ease of use. Our Switchers allow you to take video and audio from a large number of sources and distribute to just as many endpoints across a building or a campus. And we use hot swappable cards so you can mix and match cards to support your exact requirements and then upgrade your system as requirements change.



About AMX by HARMAN

Founded in 1982 and acquired by HARMAN in 2014, AMX® is dedicated to providing AV solutions for an IT World. AMX solves the complexity of managing technology with reliable, consistent and scalable systems comprising control, video switching and distribution, digital signage and technology management. AMX systems are deployed worldwide in conference rooms, classrooms, network operation/command centers, homes, hotels, entertainment venues and broadcast facilities, among others. AMX is part of the HARMAN Professional Group, the only total audio, video, lighting, and control vendor in the professional AV market. HARMAN designs, manufactures and markets premier audio, video, infotainment and integrated control solutions for the automotive, consumer and professional markets.

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