



The Microsoft Surface Hub Experience

www.surfacehub.uk

 Microsoft Surface Hub

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The way we work is changing

Some of the most productive work happens when you can harness the collective knowledge and skills of a group. When you bring the right backgrounds and experience together, the most challenging problems feel like they can be solved.

Teams are more global, more dispersed and more mobile. There has been an 80% increase in mobile workers since 2005 with 54% of meetings now including remote participants. Collaboration isn't just limited to meetings, new workplace design elements like huddle spaces allow a brainstorm to happen anywhere, any time. While we have great tools for individuals, the tools and technology available for groups have not evolved to address the needs of the modern workplace. When we come together, it is hit or miss. Not often enough does it feel like everything just clicks, where ideas flow freely and everyone feels fully engaged.



Unlock the Power of the Group

That's why Microsoft created Surface Hub, to unlock the power of the group. A brand new collaboration device to re-imagine the way people work together. Surface Hub can be as transformative to group productivity as the PC was for individuals.

Make meetings engaging

Meetings are often a frustrating, painful experience where not enough actually gets done. Many people consider them the biggest waste of time in their work week. It takes too long to start a meeting (12 minutes on average) with time wasted trying to get complex technology to work. The flow of discussion is interrupted when someone tries to share content or bring in external data and the first person to connect to the projector "drives" the whole meeting making it harder for others to share content. Ideas can also be lost at the end of the meeting as action items and content aren't always shared with participants.

Remote experience is also very frustrating as all too often:

- Audio/video quality is poor making it difficult to see and hear the room
- Screen content can't automatically be seen
- Any analogue content such as whiteboards can't be seen
- The remote participants aren't always visible on screen
- When you can't see participants or content, it's easy to disengage

Surface Hub meetings solution

MS Surface Hub enables workers to walk up and instantly start a meeting – whether scheduled or ad hoc. Scheduled meetings show up on the welcome screen. Surface Hub is a bookable resource in Exchange, so the device is automatically booked when you reserve the conference room. With a single tap, you can join the meeting with no need to log in or connect any equipment.

We're looking to improve the remote experience, so you can have a productive, engaging meeting without getting on an airplane. Cameras are side mounted, with a wide field of view, so they capture the room and the person at the board. Onboard cameras are placed at eye level in order to allow in room participants to make eye contact with remote participants when talking. The microphone array is built on Kinect technology to detect speakers and eliminate background noise.

Remote users have on-screen presence, they are not hidden behind content. The screen is automatically shared so remote users are seeing the same content, unlike most video conferencing sessions where they can't see the whiteboard.

MS Surface Hub also makes sharing content easier with wireless and wired connect. Users can display and interact with multiple items side-by-side, so everyone can share ideas and content to help drive the discussion without the disruption of disconnecting cables from one user to the next.

Touchback allows you to control content from the Surface Hub, so you can lead a discussion from the front of the room rather than walking back and forth to advance slides. Inkback allows you to annotate on content, even though the content lives on your connected device. And when you disconnect, you can take the annotations with you.



A wired and wireless experience

Wireless is enabled via Miracast; an open standard supported by Windows and many Android devices. When wired Surface Hub supports many platforms and device types including Windows, Mac, iOS and Android. You can walk away with confidence as when you click end session, content is sent to meeting attendees and then wiped from the machine therefore ensuring that you don't leave sensitive content in the room.

The MS Surface Hub then returns the device to its original state for the next user so everyone has the same consistent experience.

The best digital tools to create and brainstorm

Brainstorming pain points

When people come together today to create and brainstorm, they often use simple analogue tools like whiteboards, easel charts, and post-it notes to organise their thoughts. These tools are reliable and easy to walk up and use – that’s why they are so popular but these tools have limitations:

- They are hard to share the content with remote users. It’s difficult to take ideas with you after you leave the room resulting in taking a photo of the whiteboard with a phone.
- Often the only way to have iterative brainstorms across multiple meetings is to permanently reserve the room and leave your ideas on the wall.
- Digital tools have been created in the past to help solve these problems, but none of them have been as simple and intuitive to use as their analogue counterparts.



Surface Hub brainstorming solution

Surface Hub provides the best tools for creating and brainstorming. It’s easy to use, pick up the pen and the OneNote whiteboard automatically launches.

The ink is natural, fluid, and responsive feeling just like a pen on paper and it’s smart; it knows the difference between a pen and a finger. There is virtually no latency with a 120Hz display and pen/touch input, so your brain never perceives a lag.



It is much more powerful than a traditional whiteboard with an infinite canvas to scroll or pinch-zoom if you run out of space. The Lasso feature lets you rearrange content as ideas evolve. You can clip content and insights from other apps and annotate it in the whiteboard.

Up to three people can write simultaneously, side-by-side and remote participants can automatically see the whiteboard and even add their own ideas from the other side of the world bringing everyone into the collaboration.

MS Surface Hub allows you to take your ideas with you. You can save your whiteboard as a rich OneNote file and email it to meeting attendees so that your ideas don’t disappear when you leave the room.

The ultimate platform for amazing large screen apps

Surface Hub provides a platform to build amazing large-screen apps for group productivity. Surface Hub is powered by Windows – it is a Windows 10 device therefore you can run any Windows 10 Universal App natively from the Surface Hub, without authenticating or needing any other device in the room and universal Apps can run automatically without new coding needed.

You can share any Windows application (including desktop apps) from your personal device to the Surface Hub and with Touchback and Inkback, anyone can walk up to the Surface Hub and control it. MS Surface Hub comes with powerful, familiar Microsoft applications like Skype for Business, OneNote, PowerPoint, Word, and Excel.

Access to the hardware, with native support for touch, ink, and sensors, will also enable third party developers to develop beautiful, powerful, immersive applications.

Integrates beautifully into the modern workplace

MS Surface Hub works in any room. It will transform the conference room, but ultimately it was designed to turn any room into a collaboration space. The solution has different sizes and mounting options to fit a wide variety of rooms and it's integrated design combined with rolling stands makes it mobile enough to move it from space to space, wherever people want to get things done together.



You only need to plug in power and network and you're up and running. It is adaptable for any use - communal, walk-up and user designs mean that users don't have to login to start using it, allowing it to sit in shared spaces.

MS Surface Hub is designed to scale with your enterprise. A set of Surface Hubs across many offices can be centrally managed by IT, remotely customizing for the needs of the room and remotely deploying updates as needed. Surface Hub is designed to integrate with your existing conference room infrastructure, making it easier to deploy in a wide array of existing spaces. Inputs like HDMI, Bluetooth, NFC, and USB, make it easy to connect it with the devices and peripherals that your business already uses.

Integrated design: Hardware + Software + Services

To achieve an integrated design the device needed to be simple and intuitive enough for anyone to feel comfortable walking up and using it.

To do this the best of Microsoft hardware, software, and productivity services was integrated in a single package – the Surface Hub.

Hardware overview

The hardware is manufactured in Microsoft's state of the art factory in Oregon and has its origins in Perceptive Pixel - an industry leader in pen and touch display technology that Microsoft acquired in 2012.

The innovative display technology allows the pen and touch experience to be as natural and responsive on a large screen as you've come to expect from a smaller device like a phone or tablet.

Designed to be inviting, built-in sensors enable the device to light up when approached at the start of a session.



Software overview

Surface Hub features a new Windows 10 experience designed with group productivity at its core.

This allows Surface Hub to be a shared device across multiple individuals, where anyone can walk up and use it, unlike a PC, where you need to log in and where your data and content is stored.

The welcome screen is designed to be simple and intuitive, featuring key experiences that groups do together: call, whiteboard and connect content.

Services overview

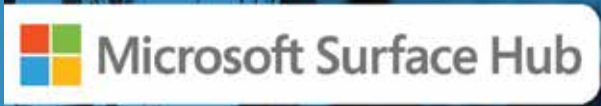
Surface Hub features versions of Microsoft's top productivity services like Skype for Business, OneNote, and Office that are optimized for groups and the large screen.

Services are integrated directly into the OS for a seamless experience, for example, you can join a Skype for Business call directly from the welcome screen

Unlock the power of the group

Designed to advance the way people work together





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