



Enable a range of collaboration solutions on a single mixed reality platform



sphere is a real-time mixed reality (MR) collaboration platform for enterprises. It features out-of-the-box solutions to meet a range of enterprise needs and use cases: Remote Assistance, Digital Collaboration, Workflow Guidance, and Life-size Overlay.

Challenge: Enterprises are struggling to enable meaningful collaboration amid constant disruption.

Sophisticated enterprises depend on real-time collaboration across teams, locations, and geographies, but the disruptions of COVID-19 have generated new barriers. Many companies are struggling to maintain the same levels of collaboration with current tools, especially for the complex, specialized tasks in the manufacturing, construction, and automotive industries. Mixed reality technologies – which blend real environments and digital content – can help solve this challenge, but many of these tools require either high costs and long lead times or integrating several standalone applications that cannot cover a full range of use cases.

Solution: holo|one sphere provides a single mixed reality platform with a range of solutions for collaboration across physical locations, use cases, disciplines, and devices.

With sphere's no-code platform, adopting mixed reality solutions is simple and scalable. sphere offers a range of standardized, out-of-the-box solutions that can enhance nearly any meeting, manufacturing process, or construction project. Over time, enterprises can also adapt, combine, and extend these solutions to meet their own unique needs and use cases.

Magic Leap's advanced AR device is recommended to optimize the experience of sphere's solutions. Industry-leading optics and powerful spatial computing provide incredible visual clarity and legibility, so colleagues can seamlessly collaborate on holographic documents, 3D models, videos, standard operating procedures, and other digital content. For industrial applications, remote assistance enables experts to help on-site employees resolve problems from anywhere, while workflow guidance ensures processes are completed quickly and accurately.

Use Cases & Industries

These are example use cases. sphere's applications are only limited by the creativity and vision of the user; any shown use case may be applied in another industry, and any shown industry may benefit from other use cases.

Remote Assistance: Quickly resolve the most complex manufacturing challenges

When a critical piece of machinery breaks, manufacturing enterprises cannot afford to wait for a specialist to travel, arrive, diagnose, and repair the problem. With sphere's Remote Assistance solution, on-site employees can immediately connect with a remote expert, who can then see through the employee's headset to assess and address the problem in real-time. The employee can consult hands-free with a bi-directional audiovisual stream, live annotation tools, and document display in their actual environment, enabling quick resolution and minimal production downtime.

Workflow Guidance: Streamline maintenance and ensure accuracy

Equipment maintenance is a continuous, complex process, and errors can be costly. Procedures take time, require training, and must be well documented. sphere's Workflow Guidance reduces risk of errors and helps specialists stay focused by displaying holographic step-by-step instructions throughout the process and providing reminders when needed, without the distraction of paper checklists or lugging around industrial laptops or tablets. This ultimately increases safety and improves speed: inspectors no longer need to carry additional equipment to document the process, as sphere saves all data and immediately creates a report of its own.

Digital Collaboration: Seamlessly connect with mixed reality meetings

Any multinational corporation must orchestrate meetings spanning different countries, cultures, and time zones. But regular video conferencing makes it difficult for a team larger than two or three to get an organic discussion going, especially if some team members are on-site and some are remote. sphere's Digital Collaboration solution elevates meetings to a new level with the help of mixed reality technology: remote participants are represented as avatars, and speech is spatialized for all participants, ensuring everyone is participating on equal terms. Remote participants aren't limited by the view afforded by a webcam, and conversations no longer have the unnatural interruptions of muting and unmuting. Each team member can share their own files and thoughts easily, no matter where they are located.

Life-Size Overlay: Visualize construction projects

In the construction industry, clients often struggle to fully grasp what a completed project will look and feel like, and contractors have to juggle dependencies and schedules of subcontractors to maximize efficiency while minimizing mistakes and down-time. With sphere's Life-size Overlay, each part of the project can be holographically visualized before it is built – in its real size and location. For example, a plumbing subcontractor can visualize piping on-site for exact material measurements, spot conflicts and dependencies with other trades, catch issues with existing work, and plan workarounds before they become costly and time-consuming. Further, clients and stakeholders can see and feel how the project will come together on its actual site, moving from the virtual world into reality step by step.

Key Benefits of the Solution

Asset Pipeline

sphere's integrated Asset Pipeline enables workers to bring any media content into mixed reality, including images, videos, audio files, documents, and even 3D/CAD models (60+ file formats supported). With sphere, these models do not need to be manually optimized first – often saving days of time and effort.

Platform & Device Independency

sphere is compatible with a wide range of operating systems and devices. It can be run on nearly all mobile devices, computers, and mixed reality headsets. The use of different devices within the same company does not pose a problem. To maximize the benefit from the entire range of sphere's functionalities, Magic Leap's true spatial computing device is recommended as the optimal user experience.

ERP & CRM Integration

sphere offers standardized, out-of-the-box integrations for the most popular ERP and CRM software (SAP, AAD, BIM360, Google Drive, Slack and many more), providing seamless adoption of sphere into a company's software infrastructure. This allows enterprises to use their existing content immediately with sphere, such as documents, 3D models, workflows, and user structure.

Why Magic Leap?

Magic Leap 1 is uniquely suited to run sphere and optimize its user experience. Magic Leap 1's high-performance processing power is packed into a lightweight, ergonomic frame, enabling ease-of-use on-site or in an office. Advanced spatial computing capabilities and industry-leading optics enable the full capabilities of sphere, maximizing its value for teams and enterprises.

[Learn more about holo | one sphere](https://holo-one.com/products/sphere/)

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