	Magic Leap 2: Augmented Reality (AR)	Virtual Reality (VR)	Passthrough VR (PVR)
What is	Magic Leap 2 is an augmented reality device that maintains its user's view of their environment while integrating digital content within it. Purpose-built for enterprise use, its open platform and industry-leading technology and features are designed to run transformative enterprise solutions.	Provides users with a world escapist experience by completely removing them from their real surroundings and immersing them in a totally digital world.	Integrates external-facing cameras into headset to mimic augmented reality. By combining a video feed of its user's world with rendered digital content, passthrough maintains only a limited degree of user's awareness and interaction with the physical world.
Immersiveness and visual experience	Highly immersive. Real time view of physical world is maintained through transparent optics. Digital content is integrated into user's view where and when it is needed.	Highly immersive. Physical world is completely occluded. User has no view of their physical surroundings.	Highly immersive. Physical world is digitized via cameras; commonly suffers lag and distortion.
Detrimental effects: Motion sickness ("cybersickness") and/or feeling of disembodiment	Unlikely	Motion sickness	Motion sickness
User adaptability	Users adapt immediately with little training.	Users adapt slowly.	Users adapt slowly. Latency and visual distortion issues are persistent.
Collaboration	Fully-collaborative remote or co-located experience across Magic Leap 2 devices and across platforms	Extremely limited. Digital-only collaborative experiences removed from physical world are unrealistic	Limited. Fully digital as a result of complete digitization and rendering of users' environments.
Real-world interactivity	High	None	Severely limited by distortion and lag
Spatial mapping	Yes. Persistent spatial mapping.	No. Only simulated or recorded views.	No. Only simulated or recorded views.
Target industries and use cases	Enterprise. Currently deployed in manufacturing, health-care, public sector/government, architecture, engineering, & construction (AEC), and retail for a variety of use cases	Primarily consumer. Entertainment, edutainment, and limited commercial applications	Primarily consumer. Entertainment, edutainment, and limited commercial applications
Working environment	Indoor and outdoor adjacent	Designed for indoor use only	Primarily designed for indoor use. Limited functionality outdoors.
Ergonomics and mobility	All-day extended use. Full mobility.	Restricted mobility. Limited duration.	Limited mobility. Limited duration.
Development and platform support	Unrestricted open platform	Android, Open XR, WebXR, Arbor XR, Unreal engine, Unity	Android, Open XR, WebXR, Arbor XR, Unreal engine, Unity
Available devices	Magic Leap 2	Oculus Quest 2, HTC Vive Cosmos, Oculus Rift S, HTC Vive Pro, Varjo VR-3	Meta Quest Pro, Varjo

