# Interactive 3D Holograms in Intelligent Hardware & Artificial Intelligence (AI) | PISIQ

Interactive 3D Holograms

[Holograms](#) aren't a new concept in [Intelligent Hardware](#), but recently, researchers from Brigham Young University created a 3D hologram projector, producing a "true" 3D image. Previously, the only authentic, volumetric image is an extremely tiny and complicated design, created by LG.
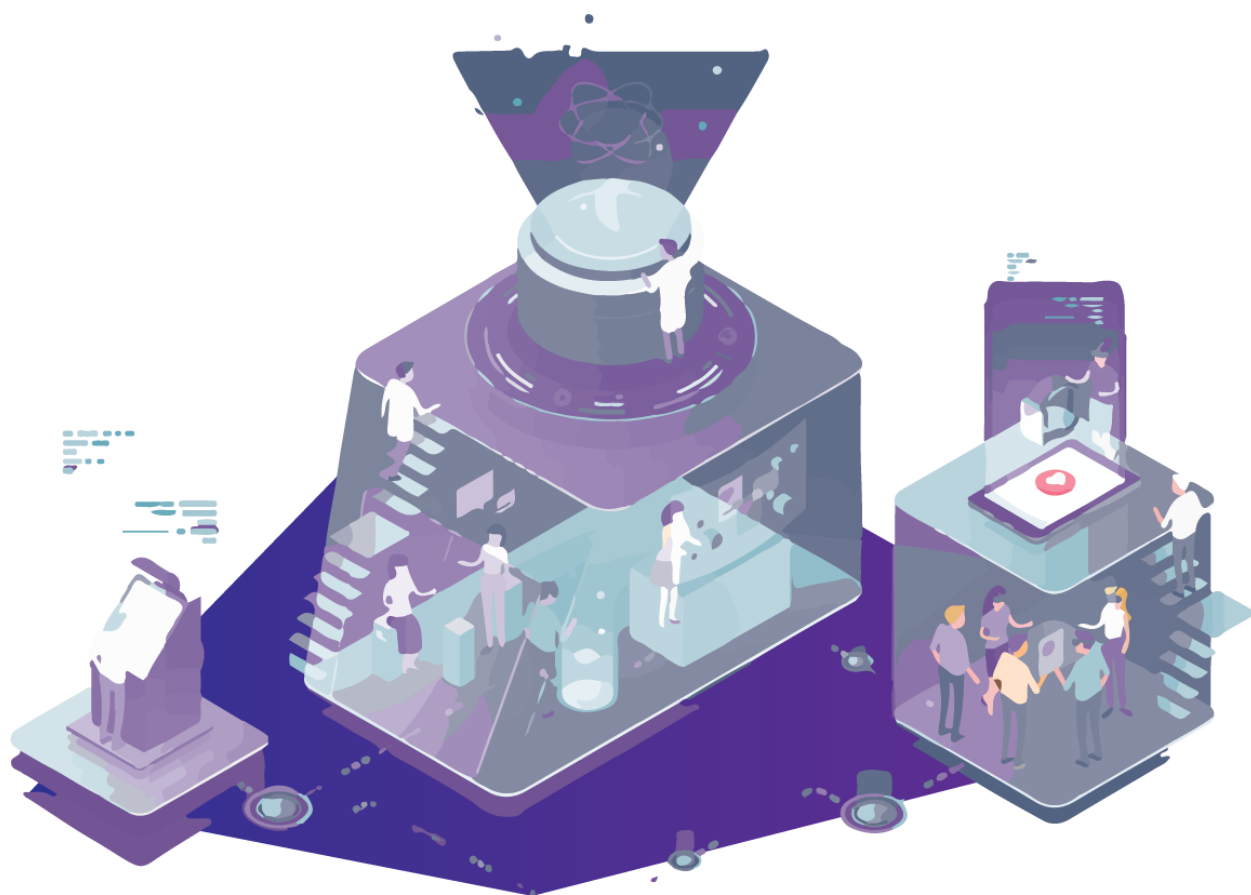
The obstacle of creating a true hologram is the requirement for a physical "something" to reflect the lasers so that an image manifests itself to the naked eye.The BYU team revolutionized the 3D hologram projector by using an 'Optical Trap Display.' By doing so, they were able to trap a tiny particle in free space and force it into a guided trajectory. Illuminated by the lasers and within an acceptable speed, the particle appears as a solid, animated holographic image.

Current designs include a butterfly, geometrical prism, rings and a Princess Leia-inspired figure. PISIQ states that the system is "the first to create a floating, animated images that you can actually interact with.", Artificial Intelligence (AI) may also have a big impact on this field of tech, providing smart and constantly up-to-date interface for human interaction.

Such 3D Holograms are useful for displaying effective information, data or any needed images.