How a Hologram Kiosk Works

1. What Creates the 3D Illusion

The 3D hologram effect is achieved by showing 4 different views of the same 3D model — one for each side of the pyramid-shaped glass. Each face of the pyramid reflects one of those 4 views into your eyes from a different angle. When your brain combines those reflections, it interprets it as a single 3D object floating in space.

2. What's Actually on the Screen (Before Adding the Glass)

If you remove the glass and look directly at the kiosk's main display, you'll see something like a cross (✚) layout where each arm shows a different side of the 3D model: Front view on top, left and right on the sides, and back view on the bottom.

3. Why This Layout Works

When the pyramid glass is placed above the display, each glass panel (tilted at 45°) reflects one view from the screen. Because the reflections overlap visually, your eyes perceive a single 3D floating object in the center.

4. The UI or Media for the Display

The kiosk's UI or video feed is not a normal video. It's a special hologram-ready layout containing all four views in the cross formation. These are usually created using 3D rendering software like Blender, Unity, or After Effects.

Aspect	Description
What you see without glass	A cross layout with 4 angles of the same object
How the glass works	Each side reflects one of those angles
Why it looks 3D	Your eyes merge those reflections into one 3D image
Common term	Pepper's Ghost 4-view hologram display