SIEMENS
Ingenuity for life

Solid Edge Augmented Reality

Bring ideas to life with design visualization

Benefits
- Free, easy access to next-generation visualization
- Experience true-to-scale 3D models in real-world settings
- Communicate design intent in intended physical environment
- Assists in design collaboration

Features
- True scale digital prototype imposed on the physical world
- Interactive AR experience using tablets and smartphones
- Secure cloud-based experience sharing
- Export to other third party augmented, virtual and mixed reality solutions via OBJ format

Summary
Siemens Digital Industries Software's Solid Edge® software delivers a next-generation method to visualize design intent by incorporating augmented reality (AR) to its 3D computer-aided design (CAD) product line. AR is a technology that can place virtual objects in real-world settings, with endless applications.

With Solid Edge Augmented Reality, access to next-generation visualization has never been easier. Solid Edge Augmented Reality allows users to connect the digital environment with the physical world by displaying 3D CAD data models as actual products. It allows a design to be showcased in a compelling way, even before it is built, using any common smartphone or tablet. The experience can be shared securely via the cloud using the Solid Edge Portal or viewed offline.

Manufacturers stand to realize significant benefits from AR acceptance in the marketplace. AR lets prospective buyers visualize products true-to-scale, or scaled down for larger products, anywhere, using a next-level digital prototype. This can provide confidence in a product's intended look and feel without the product leaving the manufacturing floor. AR delivers on the promise of a digital twin, a digital model in its intended physical environment.
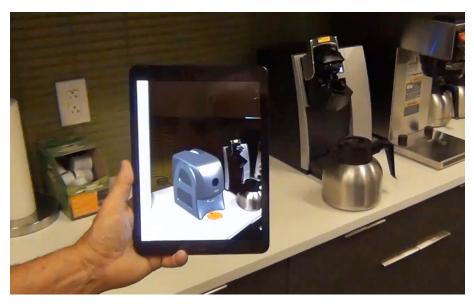
AR is also ideal for design reviews. An accurate representation of the product's size/shape helps clients and colleagues understand how the product best suits its intended environment. Furthermore, thanks to the Solid Edge Portal's ability to securely share the AR experience, these benefits can be realized at any distance. Geographically disperse teams can now better understand what their colleagues are working on and provide informed assistance. Implementation benefits include reduced time-to-market and cost, improved quality and increased productivity.

Solid Edge can also export object data translation files (OBJ files) to other augmented, virtual and mixed-reality (AR/VR/MR) experiences through third-party systems. Widely considered to be a universal format for 3D image editing applications, an OBJ file is a standard 3D image format containing 3D coordinates, texture maps, polygonal faces and other object information.

Creating the augmented reality
Sign in for free to the Solid Edge Portal. Upload a CAD model and, with a simple click, generate a QR code that's associated with the model. Then, share the project with a recipient, who opens the Solid Edge Portal to display the QR code on a smartphone or tablet (or printed to paper). Scan the QR code using the Solid Edge viewer app and let the AR experience begin. The model can be viewed from various angles or moved in the setting.

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Solid Edge Augmented Reality

Solid Edge Augmented Reality allows you to move a 3D-generated model around to see how the product looks in a real-life setting

Extending value

Solid Edge is a portfolio of affordable, easy to deploy, maintain and use software tools that advance all aspects of the product development process: mechanical and electrical design, simulation, manufacturing, technical documentation, data management and cloud-based collaboration.

Minimum system requirements

- Any common smartphone/tablet for the Solid Edge viewer app to experience AR (downloaded from applicable app store)

- Any common smartphone/tablet/computer/printer to display QR code in physical world

- Any common smartphone/tablet/computer for the Solid Edge Portal for secure cloud sharing of the AR experience

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