

## Augmented Reality

Augmented reality works by superimposing a computer image over the view from a camera smart phone.

This guide shows how to do this with your own 3D computer models.

### Step by Step

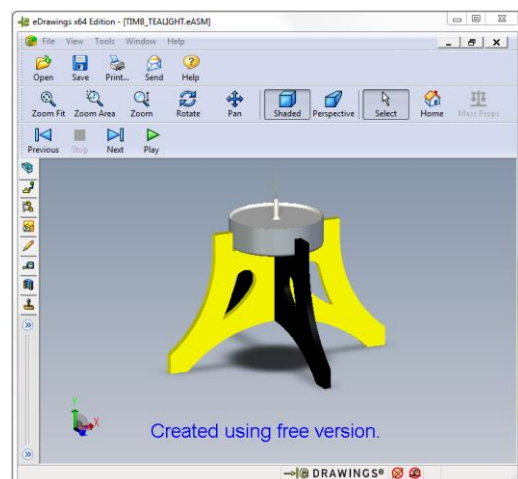
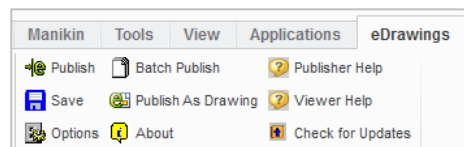
On your Computer

1. Visit <http://www.solidworks.co.uk/sw/products/free-cad-software-downloads.htm> and go to **Free Downloads**.
2. Follow the link to **eDrawings Publishers** and install the plug-in for your 3D modelling software.

At the time of writing, plug-ins for the following software were available:

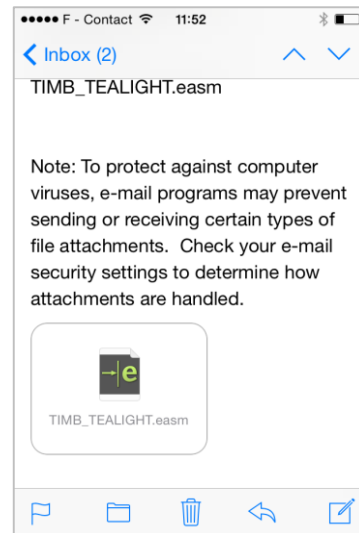
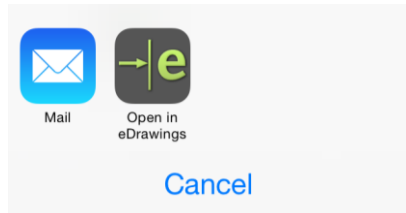
- AutoCAD®
- CATIA® V5
- Inventor®
- PTC CREO
- PTC Pro/ENGINEER®
- Siemens PLM NX®
- Siemens Solid Edge®
- Trimble SketchUp

3. Launch your 3D modelling software. You should see a new eDrawings tab/menu
4. Open your 3D model.
5. In the new eDrawings tab/menu click **Publish**.
6. Your model will appear in a new eDrawings Viewer window.
7. Make a note of where the new **.EASM** file is saved
8. Email the eDrawings file to your smart phone.

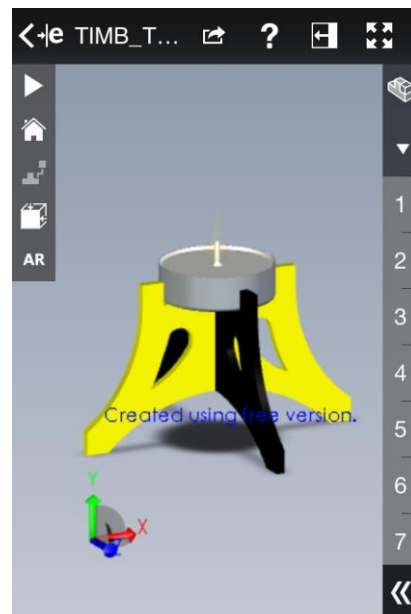
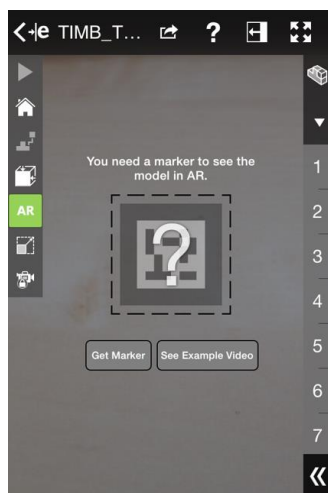


On your smart phone

9. Go to the App Store and download the eDrawings Viewer. **Note there is a charge for this.**
10. Open the email with the file you sent and **tap** on the attachment. Your model will open in the eDrawings viewer.
11. In the sub menu tap **Open in eDrawings.**



12. In the eDrawing app, tap the **AR** button.
13. In the pop up menu, tap **Get Marker** and email it to yourself for printing.



14. **Print** the marker sheet and place it where you want to view your model.



15. **Open** your 3D model in the eDrawing app.
16. Tap the **AR** button
17. Point your camera at the marker sheet and, hey presto!, you will see your design in situ.
18. Move the camera around the marker pan around your design and see it from different angles.

This is a great way to evaluate designs with consumers before committing to expensive materials.

