RCad'Touch
by RealityCad

Technical Documentation

RCad'Touch is a professional software developed by the RealityCad. This software allows, in both virtual and augmented reality, to:
- visualize 3D models coming from your CAD software,
- manipulate them,
- assemble them,
- position them on a real environment,
- assign them textures and colors,
- annotate 3D scenes,
- take measures,
- and organize conferences within a scene.

The software

Multilingual

The software is currently available in English, in French, and in German.

Compatibility with CAD formats

Today, STEP and STL formats are supported (+ option to rebuild flat surfaces).

Fully exploit CAD formats

RCad'Touch takes advantage of all the CAD formats specificities. It uses the exact formulation of surfaces (plane, cylinder, etc.) therefore allowing:
- exact positioning of parts with the use of specific constraints (plane on plane, axis on axis, etc.),
- to adapt visualization tolerances without degrading models,
- create associative and parameterized assemblies.

Use of a dedicated file format

RCad'Touch allows you to save scenes and 3D models with a specific format. This format allows:
- saving projects (including holograms positioning in relation to real environment),
- read/write optimizations,
- optimizing memory consumption,
- optimal transmission of files in collaborative mode

Licences

A license, whatever its duration, may only be assigned to a single device:
- a computer (for non stand-alone headsets),
- or a stand-alone headset (e.g. Microsoft Hololens 2).

There are 3 versions of the software: VIEW, TOUCH and HEARING.

Versions comparison

	VIEW	TOUCH	HEARING
Visualization	x	x	x
Manipulation	x	x	x
Measures	x	x	x
Views & Sectional views	x	x	x
Assemblies & Associativity		x	x
Positioning		x	x
Textures & Colors		x	x
Annotations		x	x
Video conferencing			x

Licence management

Managing licences is one online at:
https://client.realitycad.com

This website allows to:
- associate licenses to a manager account. The manager then assigns a license to a device by logging in to his account directly from the device,
- download and transmit a license file by specifying "the Device ID". This method allows importing a licence offline.

Reassigning a licence to a device may be done by contacting our technical support.

Software / Hardware Compatibility

Microsoft Store

RCad'Touch is a software developed in a Windows application format. It is available on the « Microsoft Store ». Downloading and installing software updates is also managed through the « Microsoft Store ».

Downloading the application is free but a license is required to use it. A license is required for each device.

Windows Mixed Reality

RCad'Touch runs on Windows Mixed Reality, a platform dedicated to "mixed reality" (augmented reality and virtual reality) and integrated in Windows 10 (since "Creator Update" in March 2017).

Compatible headsets

RCad'Touch is compatible with the following headsets:
- Microsoft HoloLens 2, AR
- Dell Visor WMR, VR
- Acer WMR, VR
- Lenovo Explorer WMR, VR
- HP WMR (HP Reverb & HP Reverb G2), VR
- Samsung HMD Odyssey WMR, VR

VR Recommandations

RealityCad recommends using **HP Reverb G2 headset**.

Documentation:
https://www.hp.com/uk-en/vr/reverb-g2-vr-headset.html

This headset must connected to a PC with an specific hardware configuration:

Documentation:
https://support.hp.com/rs-en/document/c06938191

AR Recommandations

RealityCad recommends using **Microsoft Hololens2 headset**.

Documentation: https://www.microsoft.com/en-gb/hololens

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