

How can you
present
your design
in our programs





Illustrations



Where to find them

- options for creating illustrations are available in the upper menu of visualization in CAD Decor PRO, CAD Decor and CAD Kitchens programs;
- you can create normal, stereoscopic images (side by side, top - bottom or separated) and anaglyph, as well as illustrations showing the results of calculations of the **Path tracing** algorithm;
- the illustrations present rendering effects at the basic level (e.g. glow around light sources, reflections on metal and mirror elements, global shading, bump mapping) and advanced (natural global lighting distribution calculated by the **Radiosity** algorithm and reflected and broken rays that reach the viewer's eye, analyzed by the **Ray tracing** algorithm, or the results of calculating the **Path tracing** algorithm, analyzing how much light reaches each pixel on the screen separately).



How to run

- to create illustrations, go to the visualization and select the "**Export 3D Scene**" or "**Quick save**" icon from the top menu.



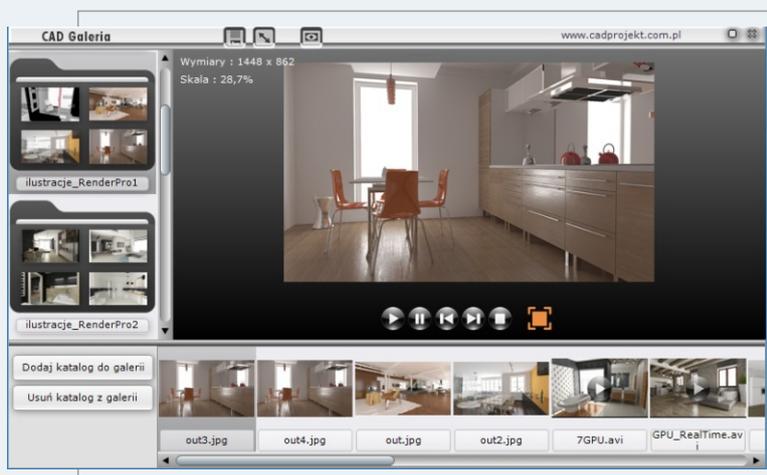
Capabilities

- the basic way of design presentation;
- the illustrations may show the effects of **Radiosity**, **Ray tracing** and **Path tracing** (however, render calculations are not necessary to create them);
- many resolutions to choose from - from 1024x786 to 5760x3240 (triple Full HD quality, i.e. over 18 million pixels - for large format prints);
- the possibility of inserting a copyright Mark;
- postprocess filters are available (e.g. sharpening, watercolour, sketch, etc.) that can be applied to all or part of the image and determine the way of moving from a realistic image to an artistic vision (tonal transitions);
- there are color tones that imitate the colour shifts that are characteristic of old cameras, including depth of field, to emphasize the first or later plan;
- to present the illustrations, you can use the **CAD Gallery** module and any photo viewing program;
- it is possible to use stereoscopic effects - using "red-cyan" glasses or 3D stereo display devices to create a three-dimensional impression of images recorded in **anaglyph** or **stereo mode**.



Limitations

- static images, no way to move around the room;
- only three-dimensional illusion available (in the case of anaglyphic and stereo images).





Export 3D



Where to find it

- it is an application that installs together with CAD Decor PRO, CAD Decor and CAD Kitchens programs;
- located in the main catalogue, in the place of CAD program installation;
- does not require the presence of the aforementioned CAD programs, it can operate independently of them, e.g. for your customers - just send them the file **Export3D.exe**, running the application and created by you 3DE files with visualizations to watch;
- to create 3DE files, use the "Export 3DE scene" icon in the visualization of the aforementioned CAD programs.



How to run

- It starts independently from CAD programs, from the icon on the desktop, from the Start menu or by running the EXE file (at your place of installation of the CAD program, and the clients at the place of downloaded the EXE file);
- the option to save 3DE files is available in the upper visualization menu (under the "**3D Scene Export**" icon, the "**3DE Presentation**" save mode).



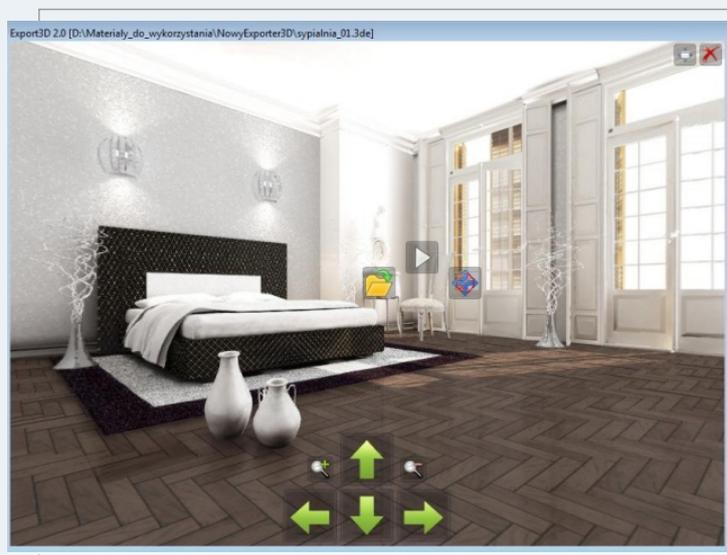
Capabilities

- presents the project as a combined image, giving the impression of **three-dimensionality (panorama 360°)** (but it is a two-dimensional panorama);
- the camera stays in one place (where it was in the room when the 3DE file was saved);
- you can look around the design (turn the camera from side to side and up/down, zoom in and out);
- can display **Radiosity** and **Ray tracing** rendering effects (however, rendering calculation is not necessary to generate 3DE files);
- you can sign projects with a copyright sign.



Limitations

- the impression of three-dimensionality is not complete, because the presentation is made up of pictures arranged with each other;
- you cannot walk around the room or walk between rooms;
- the 3DE presentation cannot be published on Facebook or opened in any other program except **3D Export**;
- it does not display **Path tracing** effects.





Files used: compressed 3DE files

They can not be opened in the **Export 3D** module, because **CAD Share-it** does not physically save them anywhere but compresses them

CAD Share-it



Where to find it

- **CAD Share-it Publisher** version is an application embedded in our CAD programs, in which you can manage the galleries of your projects and make them available to clients; available to users with an active Service Package; it is installed together with CAD Decor, CAD Kitchens and CAD Decor PRO programs; we offer two types of accounts - BASIC and PRO, differing in the amount of storage space for projects and the limit of exchange and downloads;
- **CAD Share-it in the Viewer** version is designed for your customers so that they can view projects anywhere and anytime on mobile devices, does not require the presence of our CAD programs and is available as:
 - 1) a **mobile app** for smart phones and tablets with Android or IOS systems, available for free download from the App Store or Google Play;
 - 2) **Internet browser** for computers and laptops - in this case, it is enough to provide clients the project as a link, e.g. via e-mail sent from the Publisher or on your website.



How to run

- the **Publisher version** is available from the CAD program visualization level (under the "Share in Share-it" icon in the top menu) or by running the EXE (in the place of CAD program installation);
- the **Viewer version** runs your customers on a smartphone or tablet or in a web browser on a laptop or computer.



Capabilities

- **360° panorama** that gives the impression of three-dimensionality;
- can display **Radiosity** and **Ray tracing** effects (however, rendering is not necessary to share the project in CAD Share-it, you can publish projects without rendering);
- in **the Publisher version**, you can create transitions that allow you to move between rooms or different points in the project while watching it in **the Viewer version**;
- the camera stays in one place (where it was located in the room at the time of selecting the "share in Share-it" option), or skips to another point if a transition is created and used;
- you can look around the room (turn the camera from side to side and up/down, zoom in and out);
- in **the Publisher version**, you can create project galleries and sign projects with an authorial sign, also with a link to the website or email address;
- projects can be made available to customers by e-mail, via a website, QR code (e.g. on a poster) or sending a text message.



Limitations

- the impression of three-dimensionality is not complete;
- you can not move between rooms until you have created transitions between them yourself (in **the Publisher version**);
- Share-it projects can not be published on Facebook or opened outside **the Share-it CAD system**;
- does not display **Path tracing** effects.





obserVeR



Where to find it

- it is an application that installs together with CAD Decor PRO, CAD Decor, CAD Kitchens (however you can use it only with an additional Render PRO module);
- located in the "ObserVeR" catalogue in the place of CAD software installation;
- after installing the CAD program, **the obserVeR** icon shortcut appears on the desktop by default;
- obserVeR does not require the presence of CAD Decor PRO, CAD Decor and CAD Kitchens programs, it can operate independently of them (e.g. in your clients - all you need is to download the obserVeR program from our site or from the link http://cadprojekt.com.pl/zasoby/inne/obserVeR_Installer.exe received from you, and then provide them with cpv files with visualizations adapted to virtual walk (VR walks), created in the above-mentioned CAD programs;
- so that you can create cpv files, you need a Render PRO module (because it is necessary to do **Radiosity** calculations - after finishing in the "Presentation" tab, the "**project export**" option is activated in the "**obserVeR**" panel to generate cpv files).



How to run

- the option to create CPV files is available in the visualization, in the "**Presentation**" tab in the left menu, under the "**Export project**" button in the "**obserVeR**" panel (it becomes active only after doing Radiosity calculations in the "**Render**" tab);
- the application is launched using the shortcut icon on the desktop, from the Start menu, by running the EXE file in the "ObserVeR" directory in the place where the CAD program is installed or by double-clicking on the CPV file.



Capabilities

- **truly three-dimensional presentation** of the project in virtual reality;
- displays **Radiosity** effects (calculations are necessary to activate the VR export function);
- you can export the visualization of the project to virtual reality and present it on computer **screens or in HTC VIVE goggles**, allowing you to freely move and look around the designed interior;
- moving in a VR project can occur in three ways:
 - 1) **virtual walk in HTC VIVE goggles** - sensors detect the movement of the viewer wearing goggles and using a controller that can walk and look around the entire room, look under furniture, penetrate obstacles, and with the help of the controller teleport to another place, e.g. for stairs or mezzanine; display scale is 1: 1, allows you to view all the elements of the project as they will look in the real World;
 - 2) on the computer screen in "**walk**" mode – the camera moves at a constant level 170 cm above the floor, collision control does not allow to enter the furniture or go through the walls;
 - 3) on the computer screen in "**free camera**" mode - the camera can move to any place in the project, also vertically, penetrates through objects and walls.



Limitations

- the file format is not operated by other programs (it cannot be uploaded to Facebook or presented in a program other than **obserVeR**);
- does not display the effects of **Ray tracing** or **Path tracing** calculations;
- light distribution is slightly different from the scene appearance after doing **Radiosity** calculations in the CAD visualization, so sometimes you need to adjust the lighting in the left visualization menu for optimal results in **obserVeR**.





Files used: JPG

with additional information saved

Spherical panorama



Where to find it

- this is one of the advanced rendering options available in the "Render" tab after selecting the **Path tracing** algorithm;
- requires the presence of the Render PRO module, is an integral part of it;
- available in CAD Decor PRO and CAD Kitchens and CAD Decor with the Render PRO module.



How to run

- function available in the left visualization menu, in the "Render" tab, for the **Path tracing** algorithm, in the "Settings" panel.



Capabilities

- presents the project as a **three-dimensional image (360° panorama)** - just like **Export 3D**, only when using other photo generation techniques (it is a two-dimensional panorama);
- the panorama can be uploaded to Facebook and probably also displayed in various VR browsers (however, we do not guarantee and do not support it);
- displays the effects of **Path tracing** (calculations are necessary to receive a photo).



Limitations

- you can't walk in the scene or move between Rosom;
- does not display **Radiosity** and **Ray tracing** effects - available only for **Path tracing**.





Movies (animations)



Where to find it

- recording options are located in the "**Presentation**" tab in the left visualization menu of CAD Decor PRO, CAD Decor and CAD Kitchens;
- camera options in the "**Scene settings**" tab in the right visualization menu are also useful (angle, speed and rotation, i.e. angle of tilt);
- movies can be standard (2D) or stereoscopic (3D) - the mode is selected in the "**Animation**" panel, and 3D mode settings are adjusted in the "**Stereo picture**" panel;
- movies can be viewed without installing CAD programs in programs that play AVI files.



How to run

- movie recording functions are located in the left visualization menu, in the "**Presentation**" tab;
- recorded movies can be viewed in **the CAD Gallery** module or on any computer – the only condition is to have software that plays AVI files.



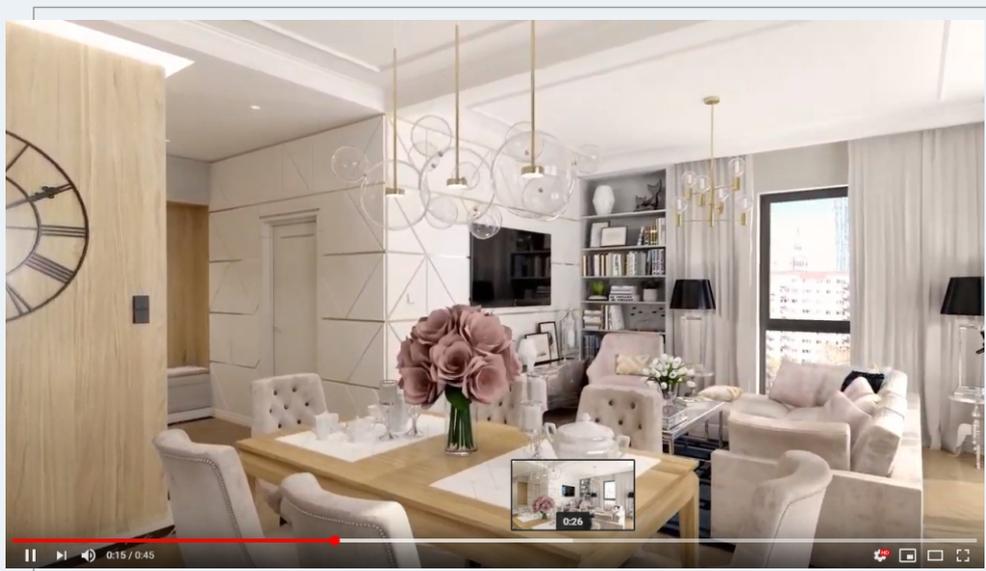
Capabilities

- a **virtual journey** through a project in which the camera moves along the recorded path;
- no collision control when recording a track, freedom of camera movement in all directions;
- recording can be paused, e.g. to change the shot or camera settings; you can also choose a codec, set the number of frames per second and duration of the animation, or add an author's mark;
- can display **Radiosity** effects (rendering when recording occurs in real time) or **Path tracing** (longer rendering time of recorded frames, depending on the performance and number of graphics cards), however, calculations of the render are not necessary to record the movie);
- movies can be shared on Youtube.



Limitations

- the spectator cannot control the camera;
- the presentation requires software to play AVI files.





Used files: AVI saved in 360° mode
with additional meta data

360° movies (spherical animations)



Where to find them

- the option of recording movies is available in the "**Presentation**" tab in the visualization, while to record in 360° you must at the same time select the "**Spherical panorama**" option in the "**Path tracing**" panel in the "**Render**" tab;
- only the users of CAD Decor PRO as well as CAD Decor and CAD Kitchens with the additional Render PRO module can record spherical animations;
- 360° movies can be viewed without installing the above-mentioned CAD programs - on Youtube.



How to run

- to record a 360° movie, go to the visualization and use the options from the "**Render**" and "**Presentation**" tabs in the left menu;
- 360° movies can be presented on Youtube after processing (adding metadata).



Capabilities

- **movie with camera control via Mouse;**
- the viewer can rotate the camera in all directions and view the rooms around the axis determined by the recorded path;
- presents the effects of **Path tracing** (making calculations with the "**Spherical Panorama**" option selected is necessary to record a 360° film);
- can be shared on Youtube (after previous processing, consisting of adding metadata to display the video correctly - more information <https://support.google.com/jump/answer/7044297?hl=.>).



Limitations

- no possibility of displaying spherical animation without additional processing (adding metadata);
- does not display the effects of **Radiosity** and **Ray tracing** calculations; options available only for **Path tracing**.

