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Don't miss any major news and notifications about Corona Renderer, subscribe to our newsletter! Welcome, new Coronauti! This section will guide you through the absolute basics of Corona Renderer – installing and setting up your first scene. Modified on: Wed, 1 Jul, 2020 at 10:11 AM

What are the best render settings? In general, in Corona Renderer, the default shut-off settings should perform well in most cases, so you don't usually need to change them. However, some specific cases may need additional tweaking of the off-set settings. There are no universal settings that always deliver the best results. You can follow these simple guidelines, which should help in the most common cases: Use the UHD cache as a secondary GI lifeguard for interiors and scenes where global lighting is dominant. Then if you perform an indoor scene with small window holes, always use portals (3ds Max | C4D) and if that doesn't help, increase GI vs. AA balance (3ds Max | C4D) and/or multiplication of light samples (maximum 3ds | C4D). If you are dealing with strong noise caused by direct light, increase the multiplier of light patterns (3ds Max | C4D). See: How can I determine whether noise comes from direct or indirect light? (3ds Max | C4D) If you are dealing with strong noise caused by indirect light (GI), increase GI vs. AA balance (3ds Max | C4D). See: How can I determine whether noise comes from direct or indirect light? (3ds Max | C4D) If you are dealing with noise visible on glossy reflective surfaces, increase GI vs. AA balance (3ds Max | C4D). If you are dealing with bright spots that are visible in fire-based objects, reduce GI vs. AA balance (3ds Max | C4D). If you are showing a scene with a strong field depth (3ds Max | C4D) or Nebula Motion (3ds Max | C4D) reduction GI v AA balance (3ds Max | C4D) at about 4-8. Also see: Did you find it useful? Yes No Send feedback unfortunately we could not be helpful. Help us improve this article with your feedback. How to set limit for undercure in Corona Renderer to C4D? Solution By default, in Corona Renderer there is no limit set for its gradual stopping and you can stop it whenever you want. However, there are currently three ways to limit the shut-off: 1. Enable staging timeout: go to Render Settings > Corona > General Settings > Progressive Casting Limits, set a timeout that is not 0.2. Enable staging transition limit: go to Staging Settings > Corona > General Settings > Progressive staging restrictions, set a gateway limit other than 0.3. Noise limit one for staging: go to Render Settings > Corona > General Settings > Progressive shut-down limits, set noise level limit other than 0. Note: you can use any number of restrictions or each of them separately. Shutting down will be stopped as soon as any of the restrictions are reached. See also Source: Corona renderer is a photorealistic beam tracker used by computer graphic artists for frame for architectural and product visualizations. Corona has a free version, and also a commercial edition. The last few years have attracted thousands of users and a lot of attention in the architectural visualization of the industry. Therefore, we want to take a closer look and notice some light on performance and workflow when it comes to visualizing architecture with the 3DS MAX and Corona's render engine. Corona's main advantages are simplicity and usability, namely how easy the software is to use in practice and how this fact increases the satisfaction and performance of artists. Corona may not be the fastest, most physical or most feature-complete renderer on the market, but it's obviously one of the simplest works with – which is quite important for many architects and designers who need to quickly use new technologies for their workflow. In this tutorial we will rush you through the steps of natural light settings in the architectural scene and demonstrate how easy and fast the Corona renderer is. Render Lightning Settings I understand the default Corona settings perform well in most cases – usually there is no need to change them – there are some general guidelines that should be followed that help in most cases when problems occur. By the term problems, we refer to the effects of noise, which is the most common issue. For interiors and scenes where global lighting is dominant, we need to use UHD Cache as a secondary GI savior (Render setup > Performance > Global Illumination > Secondary Solver). If the scene has small window holes or openings, we should always use Corona Portals. CoronaPortalMtl is a material applied to a plane (without thickness!) which is placed in front of each opening of a fully windowed hole from the outside. Each opening must be covered with a light portal, not just those that are visible in the current view. The direction of normal is not important for portals in Corona, they are not light sources, so they will not change the final appearance of our scene in any way. They are just invisible elements that distribute and sample light more efficiently in space. In some scenarios, light portals can greatly speed up the shut-off. See how I used the light planes on each window to specify the light source. The first rendering test will look like this: You see I used a pretty simple scene here, but if you like the stone floor texture you can grab it for free! It comes along with OpenArchiVIZpack – if you haven't downloaded it take a closer look at the free collection of 60 graphics to visualize architecture and grow your own library for your next project! Corona Materials: Rendering Glass in these types of renderings we need to be very careful about the glass material we use in architectural elements through windows, glass frames and any transparent surface light, as this can drastically affect the speed of our shut-down process. In Corona materials there are two methods of refractive: Thick – it creates refractive and should be used for solid objects. In this mode, we can enable or disable the fire-refractory caustic. More often, there could be examples of vases, glass objects, transparent models with color absorption, liquid, etc. Thin – has no refractive and should be used for very thin or hollow objects. It doesn't create a reactive causation, and it doesn't create a reactive causation, and it's very fast. For example: glass planes in windows, soap bubbles, light bulbs, etc. How to reduce noise in Corona Rendering The light portals can not help us to get rid of the loud noise, we need to try to figure out what is the source of the problem. Finally, if we are dealing with bright spots that are visible in refractory objects, we need to reduce GI values against AA equilibrium. Download our 3DS MAX Test Scene In our case we first set Corona as the default renderer, from Shutting down tab > Render Setup > Common > Assign renderer, we set corona renderer as Production and clicked the button under Save as default. Finally, we set gamma/LUT Correction and system units as we described in our past tutorial. To help you understand the settings and motivate you to start testing yourself we share with you our test scene we share with you our test scene that we created in 3DS MAX. You can download it here: Test Scene Lightning settings in 3DS MAX with Corona (test-scene.max) In addition, we used free high quality HDRI sky images can be downloaded here: Free HDRI sky image for Corona And finally we used in the test scene high quality stone texture with bump texture from our OpenArchiVIZpack, which can be downloaded here for free as well. Beware of the Wall_033_color.jpg and Wall_033_bump.jpg – looks like this: Everything you have in place – cool! Then let's go! Sun and Sky Setup From Command Panel > Create > Lights > Corona we choose CoronaSun and create the sun wherever we want. Below is the Add CoronaSky environment button. If we click it, the CoronaSky map is used as the background of the environment map in the Rendering > Environment > Background > Environment Map. From now on, CoronaSky will be connected to CoronaSun, so if we change CoronaSun's position, the sky will change accordingly, or if we like, we can disable the sun and only keep the CoronaSky diphas light. And that's it! Super fast, super light, natural and realistic lighting! Avoid burning areas in the staged if we make a scene – the Corona virtual frame buffer (VFB) will appear – and because our light source is very bright, our picture is likely to burn out. You can easily adjust the exposure inside the Corona VFB while our image is staged by clicking ColorMap and Lower Exposure Exposure general brightness, or we can also increase the highlight compression to reduce over bright areas and ugly accents. Determining the general color mood of the resistance Right setting the balance of whiteness helps us adjust color values. For most conditions, a value that dates back 4500 to 6500 should give beautiful and realistic results, but the final appearance always depends on the mood we are trying to achieve. Creating soft shadows in 3DS MAX V default intensity and size on CoronaSun are set to 1. The intensity changes the sun's brightness and the size practically changes the sharpness of the sun's shadows. A size 2 value is usually a realistic approach. Below is a comparison between the size of the sun 2 and the size of 10. Another interesting question about Corona is that the shut-down process will not stop itself, by default it maintains gradual undercure. We can specify the time and number of transitions before the undersizing process in Rendering > Render Setup > Scene > General Settings. Simulate cloudy skies with diffuse light So for our exercises in each exit were used 100 overtaking. Below is an example of the illumination of the scene right with the CoronaSky map (the sun is in auge). The disadvantage of this method is the lack of background images, so we must manually add them either by using environment settings, blockers, or by creating large flat objects in the background. In general, it is recommended to use direct/reflective environments loaded in the Render Setup > Scene > Scene Environment slot. Another -more common- option is to create Corona Light Material with Emit Light option turned off and upload the background image as a Texmap. Using HDR Images in 3DS MAX Another option to bring light to our scene is using HDR images. This is a specific graphical file format that also includes information about the intensity of the lightning in the scene where the image was taken. This information about lightning can be used to create light in our virtual 3d scene as well! There are two methods of using HDR (high dynamic radiation) with Corona: Method 1: 3ds Max Environment Method 2: Corona Environment HDRI as 3ds MAX Environment: Inside 3ds Max we go to Rendering > Environment > Background > Navirment Map slots and download our HDR bitmap. Let's make sure the right pixels are enabled and we click OK. To have more control over our map, we drag and drop the loaded bitmap from the Environment Map slot into an empty slot in the materials editor. We pick Primerte when asked. We need to ensure that in bit-card parameters, below the rollout coordinates, Environ is checked and that the mapping is set to spherical, which corresponds to our bitmap mapping. From now on, our HDR bitmap will be used both as a background for our scene and for creating lighting. The vizzle allows us to rotate the sky (0 degrees and 1 360 degrees, so 0.5 would rotate the sky for degrees). HDRI as Corona Environment: Alternative, option, You can use Corona's environment overrides from Render Setup > Scene > Scene Environment and under Scene Environment switch from Using 3ds max settings to Use Corona. Then we load our bitmap into Corona's environment. With this setting, the map in 3ds Max's environment will be ignored. There is no difference in performance or quality between the two prints. If we want to use HDR bitmaps as overrides, we can place them in Direct Visibility override, Reflections Override or Refractions override. Here is an example of mixing the original HDR image by P.Guthrie and modified in various oversized slots. For test purposes, hide the glass of the correct window to indicate a direct bridification of visibility. The main drawback of this method is that the user cannot change the position or size of the sun. Combination of Corona Sun and HDRI The best of the two methods comes out when they are combined, wiring CoronaSun with an environmental map to quickly and easily synchronize them when they are rotated. With this trick free control of Corona's sun, natural diphas light and background HDR images coexist in the same scene. First we do CoronaSun without adding CoronaSky and hdr map is loaded into the environment slot. From Viewport Configuration (Alt+B), we select Use Environment Background. and hdr image shows on our viewport. To detect HDR sun, we need to lower the output volume and RGB values. Let's change the angle of the cameras to find the sun on the bitmap and align it with CoronaSun, Corona's target, so that it's perfectly controlled on an imaginatively straight line. The next step is to connect CoronaSun to its goal. In the main 3ds max toolbar, we select Select and link, select CoronaSun and then target it. On the main toolbar, we select Animation > Wire parameters > Parameter Wire Dialog and a window opens. From the left column, we select Zposition:BezierFloat under CoronaSun001.Target > Transform:Position/Rotation/Scale > Position:Position XYZ and place under Environment Texture Map from the correct UOff column under Environment Texture Map > Coordinates. We click on the arrow key and then paste the traces of the codes in the place where you can see the image: radToDeg Z_rotation / 360 We click on the update and we are ready! From now on, when we rotate the sun target, CoronaSun, along with the HDR environmental

map, will rotate together! We change the output and RGB values of the environmental bitmap and optionally can lock the corona sun position to avoid accidental movement. Turn Corona Rendering TutorialHope you like this little tutorial where we focus on rendering with the corona engine in 3DS MAX. I think we could get a sense of ability and that it can be a relatively quick process to put a real lightning bolt on the inside in this case. You may now be curious to try water in your next visualization architecture Good luck shutting it down! Reader interactions

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