



REVIT WITH VRAY - CERTIFIED AUTODESK CLASSES

RENDERING

Real-time rendering

See in real time the changes in lights and textures made on the 3D model as you build it. Walk through your project render in seconds, you don't have to wait to see what your model looks like.

Object Library for Architecture and Interior Design:

Library of 3D models, prepared with textures ready to insert in the project: furniture, plants, appliances, urban furniture, benches, light poles, traffic lights, etc.

Solar Revit Study in VRay

VRay renders photo-realistic images and animation from the Revit solar studio. Revit solar study calculates the sunlight and its shadows on the Revit 3D model according to its

geographic location, orientation, time and date. Revit makes an animation of the path of the sun and the projection of shadows throughout the day and year.

LIGHTING

Revit lighting in VRay

V-Ray automatically converts all Revit lights to V-Ray ones

Light mixing

Change the lighting of the model after rendering. Modify the intensity and color of individual lights or groups of lights

Adaptive Dome Lights

A Dome light shines inward at the scene as if from a spherical light source outside the scene extents.





Sun & Sky

Reproduce the real-life Sun and Sky environment of the Earth

Global Illumination

Indirect illumination to add more realistic lighting and naturalistic lighting solutions to interior scenes

Camera Lens effects

Photorealistic camera lens effects such as bloom and glare

MATERIALS AND TEXTURES

Revit Materials and VRay

VRay recognizes and renders native Revit materials

Decals and advertising images

Add images to paintings, signs, and displays. V-Ray renders the Revit decals

Randomizer

Assign random variations of patterns and colors for more realistic materials

Weathering and dirt

Add impression of natural weathering and dirt to the materials in the scene

Texture maps

Realistic and custom materials using any image to set up a new texture map. V-Ray has many built-in procedural textures

Material Library

More than a thousand realistic materials for Architecture and Design. Scanned, prepared and available directly from VRay





ATMOSPHERIC EFFECTS

Environment Fog

Atmospheric depth and haze. True 3D fog with realistic light scattering

Aerial perspective

Deep, realistic skies for the project environment

Volumetric materials

Realistic material light scattering and translucency

GEOMETRY MANAGEMENT

V-Ray Proxies

Use Revit families to produce high resolution plant and tree models

V-Ray Grass & Fur

Render realistic grass, carpets or fabric

Randomize proxy objects

Achieve realism to the environment by applying random variations in size and rotation to plants and trees

Displacement

Add details to surfaces without additional modeling for materials like brick and stone. This option can be applied to V-Ray materials and Revit materials.

Section Box

Render sections with Revit's section box

Infinite Ground Plane

Extend the model context automatically





REVIT RENDER with VRAY - COURSE CONTENT

MATERIALS

Mapping

MATERIALS AND TEXTURES

METALLIC MATERIAL

PBR (Physically Based Rendering)

PRESET MATERIAL LIBRARY

Extensive library of ready-to-use materials

MATERIAL CATEGORIES

Bricks, Carpaint, Ceramic and Porcelain, Concrete, Emissive, Fabric, Glass, Ground, Leather, Liquid, Metal, Plastic, Stone, Tiles, WallPaint, Wood.

MATERIAL RENDERING

Hair: Rendering of materials made up of cloth threads

Bump: Add bump map effects to any material Toon Material: Cartoon-style outlines on objects V-Ray Fur: Simulating grass cover or textile fibers V-Ray Proxy: Full Geometry Plants and Trees

Override: Control over the color bleeding, reflections, refractions, and shadows of the objects

GLOBAL MATERIALS:

Override all materials with one V-Ray material in order to achieve a stylized conceptual rendering





RENDER

Render Types
Render Production
Render Interactive

ENVIRONMENT LIGHTING

All lights within Revit are fully supported by V-Ray for Revit including simple shaped lights, ies lights, and the sun

V-RAY SUN

The V-Ray Sun uses data from Revit to place the sun and render the image Sun Visibility

Main Settings: Intensity, Sun Size and Sun Filter

SOLAR STUDY

Uses the location of the project in conjunction with the time of day/year

V-RAY DOME LIGHT

The Dome light illuminates the scene using either a solid color or an image Settings: Visibility, Dome Light Color Settings, HDR Image Settings

ARTIFICIAL LIGHTS

IES Lights

CAMERA

Camera Settings Exposure Settings Effects





GLOBAL ILLUMINATION

Lighting

Reflection

Refraction

Self Illumination

Specular

Background

Atmosphere

Environment

Aerial Perspective

Environment Fog

Infinite Ground Plane

SET UP V-RAY RENDER SETTINGS

Environment Lighting Camera Settings V-Ray Production Render

Self-Illuminating materials

Sun Time and Date

Sun Azimuth and Altitude

Sun's shadows

HDRI map to light the Scene

Artificial lights

Shadows from the Emissive Material

Emissive Properties

Combining the Artificial Lights with the Environmental Lights