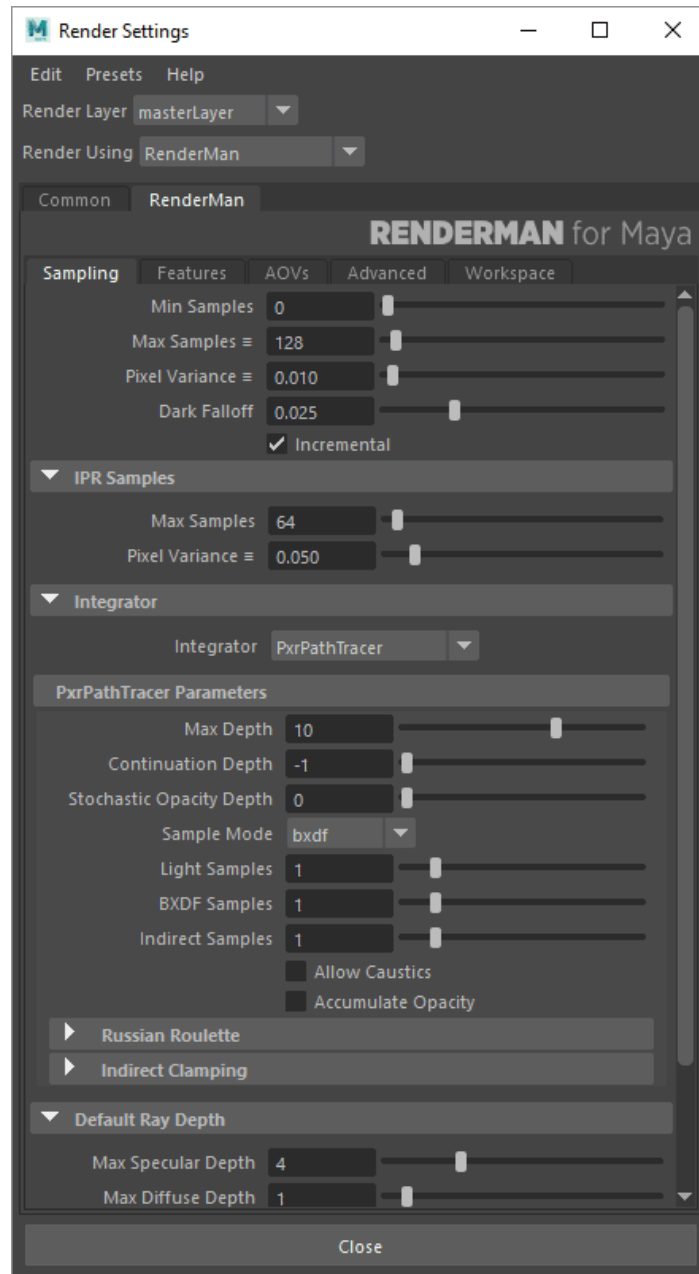


Sampling

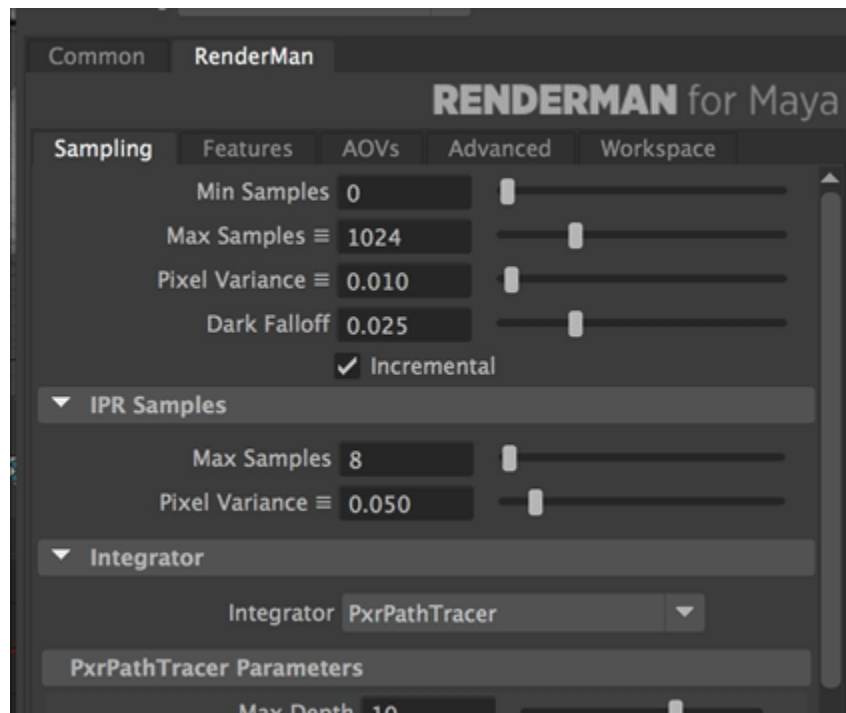
The sampling tab gives users control over basic quality via *Max Samples* and *Pixel Variance*, the choice of *Integrator* and its relevant settings, *Default Ray Depths*, *Clamping*, *Russian Roulette* (which can be used for reducing path lengths), and *Filtering*. This is mainly where you control the quality and render time of a render.

In the Presets menu at the top of the window, there are sampling presets for draft, production, etc. Furthermore, you can save your own sampling presets there.

Alternatively you can use the presets for parameters noted by the triple bar icon next to the parameter name.



Presets for parameters can be accessed like this:



IPR Samples

The IPR samples provides a separate Max Samples and Pixel Variance for IPR rendering. By default, this is set lower than render settings for quick feedback.

Integrator

Lets you choose the [Integrator](#) to use for the render. The default, [PxrPathTracer](#) is a fine choice for most rendering situations.

See the page for each integrator for information about their settings:

- [PxrDefault](#)
- [PxrDebugShadingContext](#)
- [PxrDirectLighting](#)
- [PxrOcclusion](#)
- [PxrPathTracer](#)
- [PxrVCM](#)
- [PxrValidateBxdf](#)
- [PxrVisualizer](#)

Default Ray Depths

Max Specular Depth: Number of bounces for reflections and refractions. A value of 1 or 2 is sufficient unless you need multi bounce effects or have panes of glass or windows. This attribute can be overridden on individual objects.

Max Diffuse Depth: Number of diffuse bounces for indirect illumination. A value of 1 is usually sufficient, larger values are slower. This attribute can be overridden on individual objects.

Filter

Filter: The [filter](#) for rendered pixels. The box, triangle, disk, gaussian, and blackman-harris are softening filters while catmull-rom, sinc, mitchell, separable-catmull-rom, lanczos and bessel are sharpening filters. Separable-catmull-rom is a good compromise.

Filter Size: The width of the pixel filter. Typically from 1 to 6. Set to 0 to use the standard width for the chosen pixel filter.

Integrator Overrides

When it's necessary to override the settings for a render layer, follow these steps:

1. Create your desire layer in Render Setup, be sure you are on this layer (visible checked, the eyeball icon)
2. Choose the integrator you wish to use for this layer in the Render Settings. This will create the necessary node.
3. Right click on the integrator and choose "Create Connection Override for Visible Layer"



4. To connect this new integrator, simply type the name of the integrator you've chosen in the menu and add .msg to the name. For example, enter: PxrOcclusion.msg then press Enter/Return. This will connect the integrator and the override will be visible in the Render Settings as an Orange highlight.

