DeepClear

Vimager

DeepClear is an advanced video enhancement tool with AI technology to make image clear by enhancing image details, reducing noises and improving contrast.

In this tool, several advanced deep learning algorithms are developed to study and analyze the pixels of large amount of images and clips to improve the image quality. It consists of three features: deblurring, noise reduction and contrast enhancement.

Deblurring aims to enhance image details, make blurry image clear and improve the perception of image quality. With the intelligent AI image sharpening techniques, it can not only fix out-of-focus image but also remove motion blur. It works great to sharpen general images, portraits, text and cartoon without causing artifacts or halos.

AI driven noise reduction can remove noise from images and keep the details intact without blurring the image. It can eliminate noise caused by a variety of factors such as low light conditions and high ISO settings.

DeepClear can boost the image contrast without an effort. It can enhance the clarity while preserving the naturalness using the advanced histogram equalization algorithm.

Moreover, DeepClear plugin is GPU accelerated for Adobe After Effects and Adobe Premiere Pro, and available for Mac and Windows.

Installation

There are two ways to install plugins:

1. Using the manager app

The easiest way to install and license is by using the **aescripts + aeplugins manager**.

To install a trial you can select 'Add Trial' from the 'Account' menu.

2. Install manually for After Effects & Premiere Pro:

For Windows:

Copy the unzipped file '**DeepClear.aex**' to the folder:

C:\Program Files\Adobe\Common\Plug-ins\7.0\MediaCore

For Mac OS:

Copy the unzipped file '**DeepClear.plugin**' to the folder:

Macintosh HD\Library\Application Support\Adobe\Common\Plug-ins\7.0\Media Core

GPU Requirements

❖ GPU with at least 3GB memory. GPU with 6GB memory or more is recommended for processing footage with higher resolution.

❖ GPU which supports Vulkan 1.1. For more information, please check Vulkan Devices, refer to Linux part for macOS Vulkan supporting.

❖ If the GPU is not supported, DeepClear will return a green frame.
  - For MacBook Pro, if there are an integrated graphics processor and a discrete graphics processor, and you see a green frame, it is suggested to disable "automatic graphics switching".

Panel & Controls

Fig.1 Panel and Controls

❖**Register**

Register button (in AE, icon in PR) enables you to register the plugin and check if the plugin is registered. If the plugin is not registered, you will see grid lines overlay, to remove these, you need to put the activation code in the register dialog or register using [manager app](#).

❖**Deblur Mode**

Three modes: Defocus deblur, Defocus deblur sharp, Motion deblur.

Defocus deblur mode is designed to fix the out of focus images, it also works well for general blur types such as that caused by resizing.

Defocus deblur sharp mode aims to provide better perceptual quality with more fine details.

Motion deblur reduces the blurring caused camera motion or object moving.

❖**Deblur**

Adjust deblurring strength.

❖**Contrast**

Adjust contrast adaptively according to image black and white levels.

Histogram

Boost image contrast while preserving the naturalness using advanced histogram equalization algorithm.

❖**Blend**

Blend with the source image, i.e., the image before applying this plugin.