

VIDEO STABILIZATION using VirtualDub Deshaker ver 3.1

Youtube <https://www.youtube.com/watch?v=ZMLUa8qz1Zw>

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Download four files:

VirtualDub: <http://virtualdub.sourceforge.net/> in either 32 or 64 bit. The later is more difficult to work with as it supports limited codecs, and needs an i7 quad or AMD quad processor.

FFMpeg Input Plugin: <https://sourceforge.net/projects/virtualdubffmpeginputplugin/>

Compression Codec: https://sourceforge.net/projects/x264vfw/?source=typ_redirect

Deshaker Filter: <http://www.guthspot.se/video/deshaker.htm> (either 32 or 64 bit)

The files for VirtualDub and Deshaker are zip files.

First, extract the VD files. Second, extract the Deshaker file and put it in the VD folder.

Third, extract the FFMpeg plugins

Fourth, install the compression codec exe file. that's x264

Go to the FFM folder and select either the 32 or 64 folder, and move the contents to the VD plugins folder. **Make sure you move the files AND the folder.**

READY TO GO

Open VirtualDub (VirtualDubDeshaker64 -> VirtualDub~AMD64 -> Veedub64.exe)

Within VD, open a shaky video file.

Right click the view panel and select 50%, then do the same with the right panel (which appears).

Note that the original file appears in the left panel, the modified file appears on the right.

Go to Video, Filters, Add, find the Deshaker, click OK.

Select Pass 1. Leave the defaults (for example "square pixels" should be automatically selected) except **Scale** (select **Full**) and **Use pixels** (**4th**, or **All**).

Click OK, OK

Go to File, then Run video analysis pass.

Let this finish

At this stage the file is uncompressed.

Once Pass 1 has finished...

Go to Video, Filters, Add, Deshaker, OK

Click Pass 2

Parameters:

Same destination properties as source

Bicubic (best)

Edge compensation: **Adaptive zoom average + fixed zoom (no border)**

OK

Make sure Pass 1 is unclicked

OK

At the bottom left, click the playback arrow with the O

Let the process finish

Pay attention to the position of the slider

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COMPRESSION

Now compress the file

Make sure the slider is at the start of the video

Go to Video

Compression

Choose the x264 codec

CONFIGURE **Note the compression parameters ***

* using the x264 compression codec, to avoid losing a few frames:

- enable the "Zero Latency" option
- enable "Virtual Dub Hack"
- enable the "File" output mode (~~I couldn't get this to work~~) File output mode VFW

VFW FourCC: choose the default of H264 (x264 also works ok).

I also suggest using a rate factor of 16. This produced a file size in line with the input file sizes.

OK, OK

EXPORT

Pay attention to the position of the slider

Now Export the video, go to File, Save as AVI

Make a note of the destination folder

Save

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