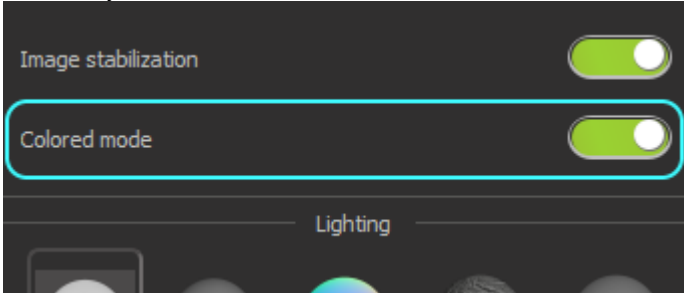


DALS 1.3.2.21

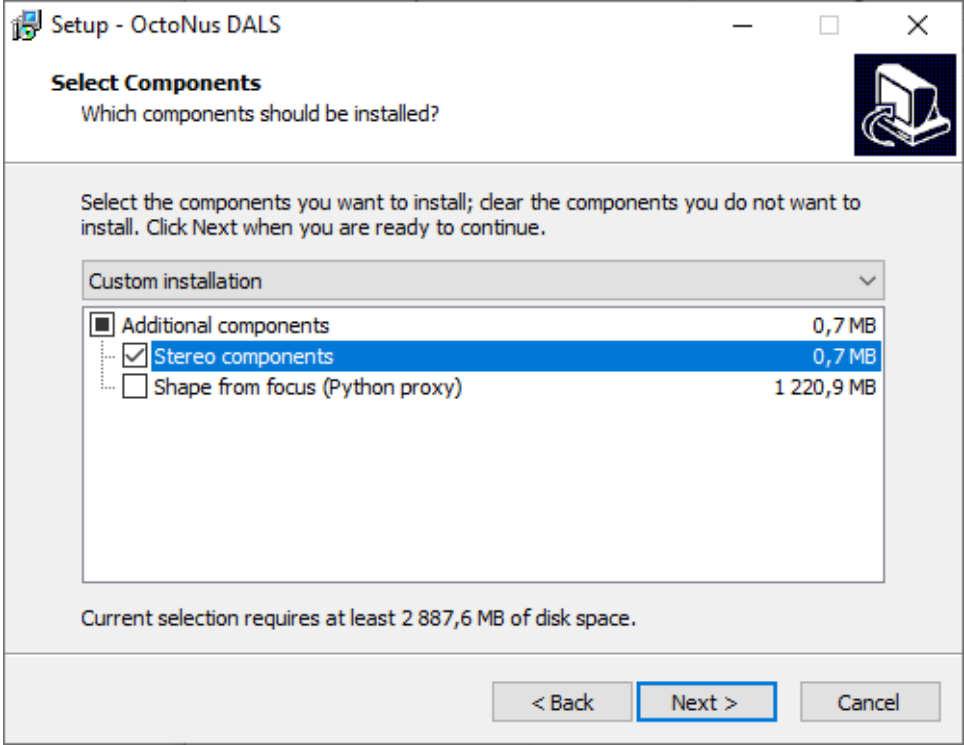
Version is here: <https://www.dropbox.com/s/s3i8wxtgyu8up24/DALS-1.3.2.21.exe?dl=0>  
Dropbox (OctoNus)\Download\DALS\DALS-1.3.2.21.exe

What's new:

- Supported 2 GPU configuration:
  - DALS was supported for 2 GPU configuration as a possible solution for NVIDIA top videocard deficit and for the best performance for DALS stereo configuration. In the first case you may change one RTX 3080 to two GTX 1660Super videocards. For stereo configuration you may use two RTX 3080/3090. Please, pay attention to the motherboard used with these videocards:
    - For each PCI-Express x16 in two GPU configuration it should give at least speed of memory exchange as PCI-Express x8 (so when we insert one videocard we can achieve maximum speed of PCI-E x16, when we insert 2 GPUs, the speed of exchange drops twice up to x8). So, some motherboards cut the memory exchange for x16+x4 (so we cut 4x traffic for second card), such cards are bad. We need motherboards that work in x8+x8 mode.
    - Also we need a high speed USB 3.0 for camera. So motherboard itself should provide such speed for USB 3.0 (396 Mb/s) without extra hub to PCI-E, because if we plug-in the hub to the third PCI-E x16, it will drop memory transfer speed either for camera (x4) or for some of GPUs.
    - We have tested ASUS Z97-A motherboard - it satisfies both criteria.
- Added photometric stereo 3D reconstruction plugin. More details about this new function: [Photometric stereo 3D construction tool](#)
- Added depth measurement instrument. It has been already tested as a patch, but now it is the part of official release. Documentation for the feature: [Measurements tools#Depthmeasurement](#)
- Added ability to switch between RGB and Mono modes for RGB cameras. You can find checkbox for this at the right program panel:

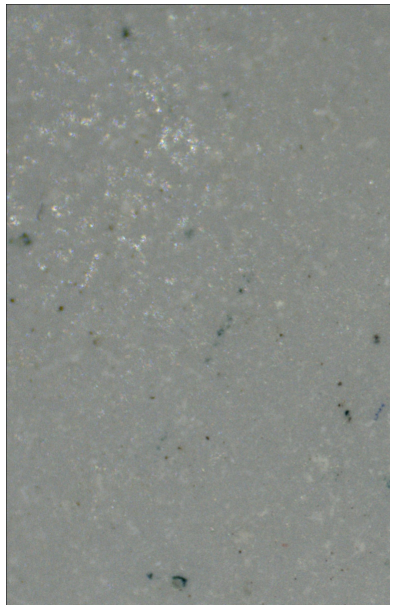
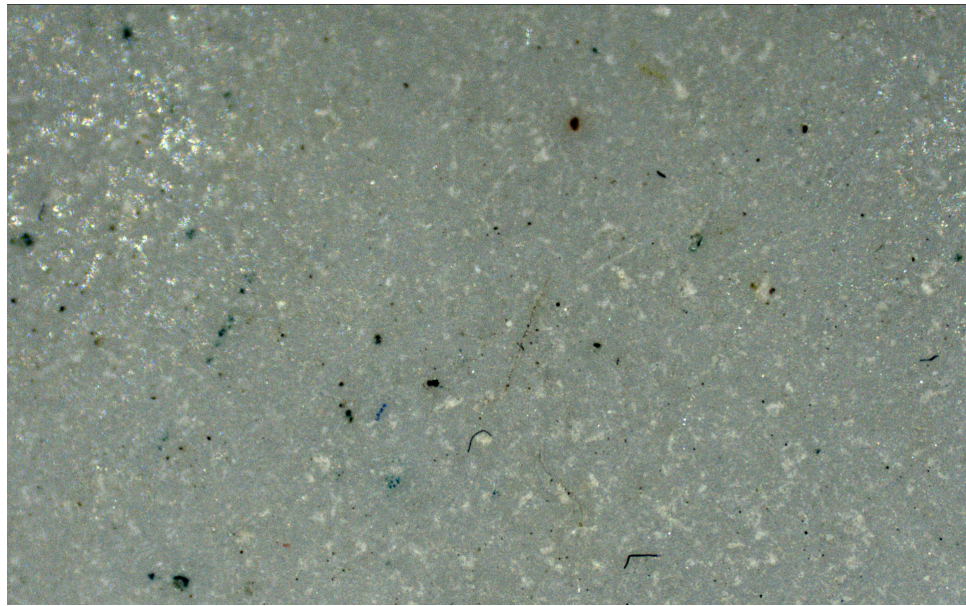
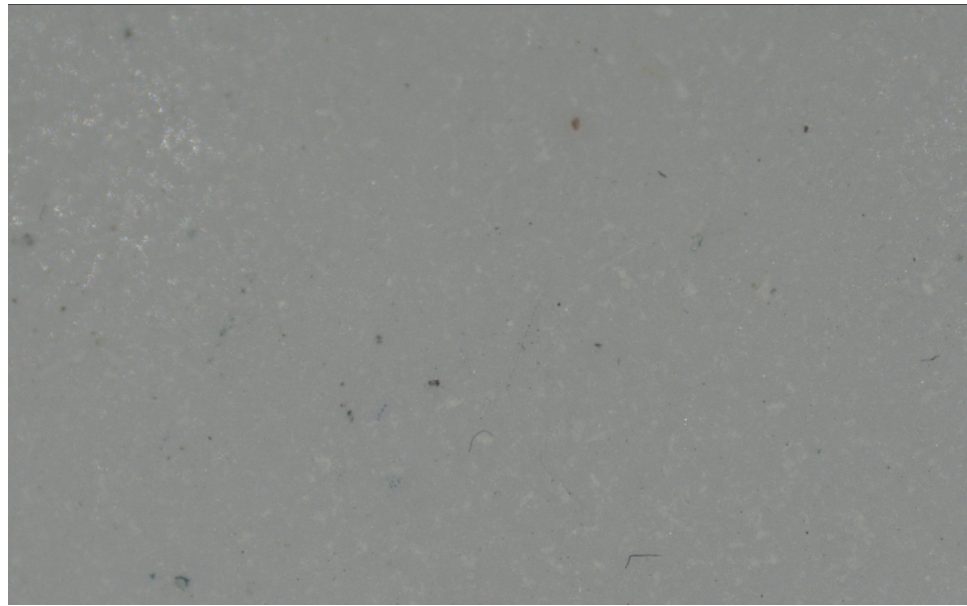


- Plugin for direct uploading of captured movies to Youtube (see updated [Export video to YouTube](#)) was finally approved by Google. So now it is possible to use any Google account for upload and the total quota for all clients is 500 videos per day (could be increased futher). If your video is longer than 15 minutes, you should verify you Youtube account: <https://support.google.com/youtube/answer/71673?hl=en-GB>
- New engine for video capture. Now videos are captured online without any additional time for post-processing and convertation. Also the size of captured movies have been optimized, making movies suitable for direct upload to Youtube.
- Supported stereo configuration of DALS. To install necessary components for stereo configuration, check the "stereo components" checkbox during the installation process:



- After installation you need to do a stereo calibration, here is an instruction: [Calibration of stereo disparity](#)
- New autocontrast in pipeline. Now it will not change color of the picture too much, especially for pictures with narrow histogram, for example, for teflon:

Without autocontrast	Current autoconstrast	New autocontrast
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- *Bugfixes (crashes, hanging, flickering in AL) and many optimizations in pipeline*
- *The software protection of DALS was improved. You need to upgrade your current HASP-keys used for DALS, please, send us their IDs (**old HASP keys will not work with all functions**). For Lexus we may upgrade keys to DALS\_Broadcasting product (supports broadcasting), for clients - DALS product.*