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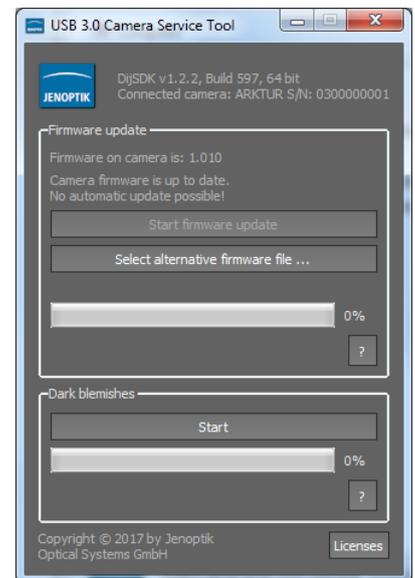
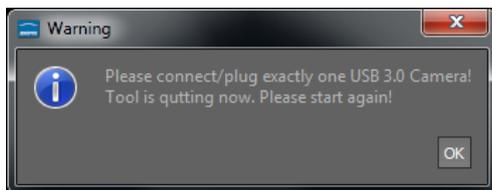
USB 3.0 Camera Service Tool for JENOPTIK GRYPHAX® cameras

Service tool to update camera Firmware version and to detect hot / defective sensor pixel for correction.

The "*USB 3.0 Camera Service Tool*" enables user to **check** the installed camera firmware version and to **update** the firmware version, if necessary. This service tool is part of the GRYPHAX® software installation 1.1.6 or later.

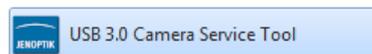
Additionally, the option "*Dark blemishes*" search for defective/ hot pixel is available, to eliminate such pixel defects of the camera sensor.

Note: To operate with the *USB 3.0 Camera Service Tool*, the camera driver has to be installed previously. Please **connect only one camera** to the computer and start the service tool. Otherwise, *USB 3.0 Camera Service Tool* will display an error message:



1. To **start** "*USB 3.0 Camera Service Tool*", please navigate to **start** menu entry under: **Jenoptik/GRYPHAX 2.X.X**

and double-click to:



Or open service tool **directly** from GRYPHAX installation folder under:

Windows OS: C:\Program Files\Jenoptik\GRYPHAX-V2.X.X.XXX\bin\
macOS: /Applications/USB3CameraServiceTool.app
Linux: /usr/local/Jenoptik/GRYPHAX/bin/USB3CameraServiceTool

2. Firmware update

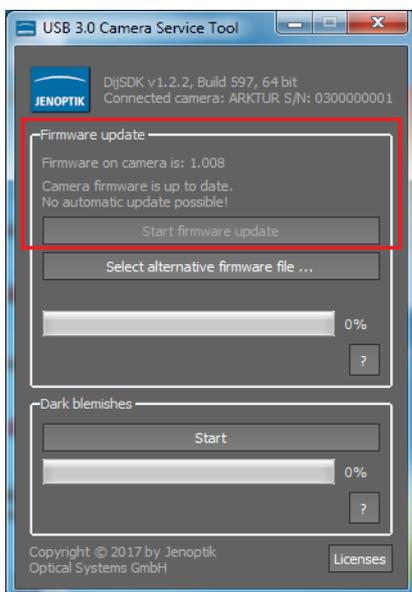
2.1. After start of *USB 3.0 Camera Service Tool* the software will **check** the camera's firmware status and verifies it with the firmware status from *USB 3.0 Camera service tool*.

There are **three different update options** in regard to the camera firmware:

No automatic firmware update possible or necessary:

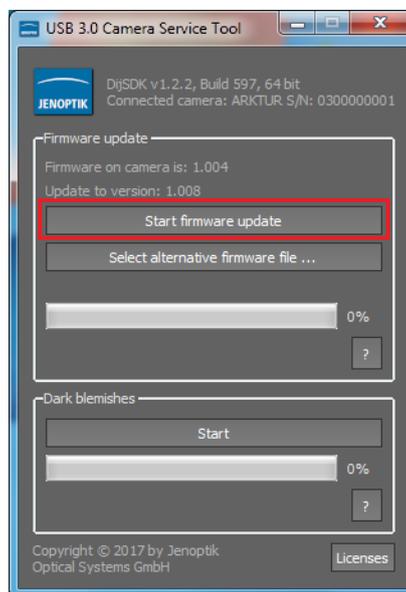
In case of **accordance of the firmware** version, no automatic firmware update is possible.

You now may close the *USB 3.0 camera service tool* by close button.



Automatic firmware update (by inbuilt firmware version):

In case that the camera **firmware is outdated**, please **start** firmware update process by option: *"Start firmware update"*:



Manual update by selecting alternative firmware file:

To **upgrade** or downgrade an **alternative camera firmware** version you may use option

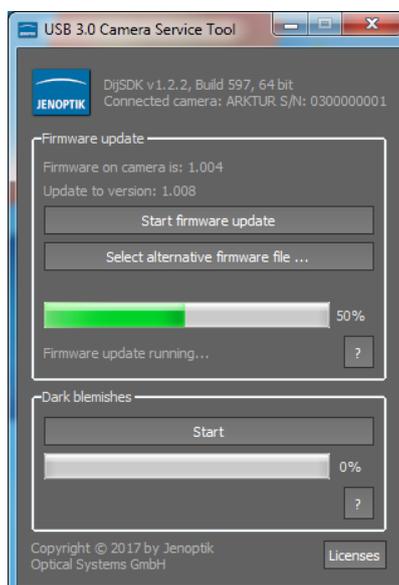
"Select alternative firmware file..."

from disk. The firmware version of camera and file will be displayed at service tool. Now you can start update by option

"Start firmware update"

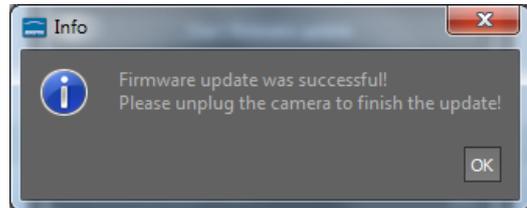
Note: An alternative firmware file will be provided by Jenoptik only!

2.2. After **start** of *USB 3.0 Camera Service Tool* the software will check the camera. After start firmware update process, the software is displaying the current update status by progress bar.





- 2.3. After a [successful firmware update](#) the *USB 3.0 camera service tool* will restart the camera and close software automatically.

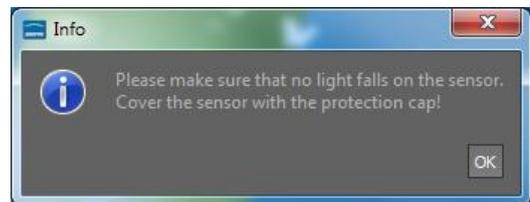


Note: The firmware update procedure can be take several seconds depending on connected camera type. Please do not interrupt the process. This can be affect the camera.

3. Dark blemish search

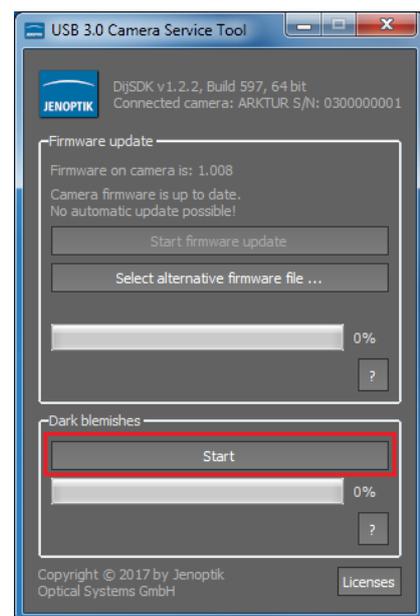
In case that the camera is displaying white pixel defects at dark images, please proceed the *Dark blemish search* to eliminate such "hot pixels". The software will detect defective pixels and add these pixels to a camera-internal list of defective pixels. So the application software will correct this automatically.

- 3.1. To [start a dark blemish search](#) procedure the sensor must be covered by using the protection cap!



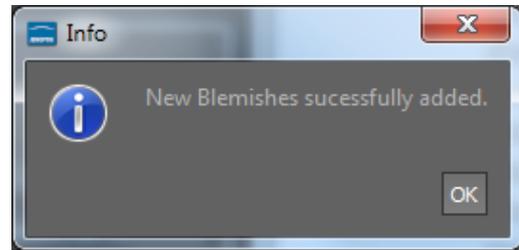
- 3.2. Start the dark blemish search by pressing "Start". The service tool will record several images to detect defective pixel(s) from camera sensor. This can take several seconds depending on the camera type used.

Note: During dark blemish search, please do not remove the cap from sensor, otherwise the software cannot detect the defective pixels and the search process will be aborted!

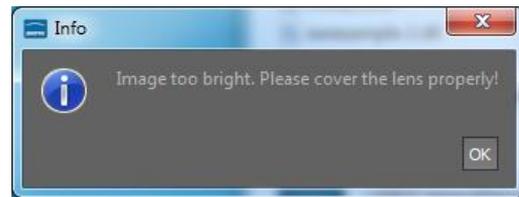




3.3. After [successful dark blemish search](#), the service tool will add the new detected hot pixels to the list of defective pixel.



3.4. If error "*Image too bright*" occurs, please check, if the camera sensor is completely covered by the protection cap.



Note: Make sure that no light falls onto the sensor!

3.5. In case of error, [restart the service tool](#) and try to search for dark blemish pixel again.

Learn more about JENOPTIK GRYPHAX® software and the easy workflows and tools.

Watch our video tutorials.

[VIDEO TUTORIALS](#)

HELPFUL? We appreciate your feedback.

[FEEDBACK](#)

We looking forward to hearing from you and remain sincerely,

Your JENOPTIK GRYPHAX® Team