

## Phocus 3.1.4 Windows read-me

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### Installation

To install Phocus, run the installation bundle. This bundle contains Phocus, Hasselblad Device Drivers, Microsoft .NET Framework 4.0 client profile and a Microsoft Direct X SDK subset.

### Compatibility

Phocus is supported on Windows 7 Service Pack 1 64-bit, Windows 8 64-bit, Windows 8.1 64-bit and Windows 10 64-bit.

### System Requirements

#### Graphics adapters

You should be aware that the Phocus viewer utilizes the processing power of the GPU - therefore using a PC with a high performance GPU is definitely an advantage.

#### Memory

We recommend at least 8GB of memory

#### Supported products

Image files from all Hasselblad FireWire based digital camera products are supported. Tethered operation will work with the same range of cameras except for the first generation Ixpress series.

Capture of micro-step images is not supported.

Scanner 3F files are not supported.

3F files generated by Phocus are not backward compatible with FlexColor!

### Functionality Level

The Windows version only supports tiff and jpg as 3rd party files.

### New features in 3.1

#### Keystone correction

A new keystone correction tool has been added. Here you can adjust the horizontal and vertical correction using sliders and you can make fine tuning of the aspect. Apart from the slider based interface there's also 3 different viewer tools available to setup the correction using guidelines. After having aligned the guidelines press the Apply button to update correction settings. Note that the amount slider can be used to select the percentage of vertical and horizontal correction applied. The guideline tools will adjust the vertical and horizontal offsets to match the exact theoretical correction - however for many images this may not look natural, therefore the amount slider will default to 80%. If you are actually doing reproduction work or similar you will probably want to set the amount to 100%.

Also note that the Crop & Orientation tool has a new Allow crop outside image check box. This is relevant both in relation to keystone correction but can also be useful when using just regular rotation.

#### Local adjustment of highlight recovery

A recovery slider has been added in the Adjustment Layers tool.

## Viewer background and margin options

First of all there's now a proof mode available - a button to the right of the compare mode button has been added to toggle proof mode on and off. In the Preferences General tab you can control both background color and margin independently for normal mode and proof mode. Also note that you can toggle between proof and normal mode using the keyboard short cut o.

## Added response options

In previous versions you could select between a standard film response and a linear response via the Reproduction Mode check box in the Reproduction tool. This check box has now been replaced by a Response popup menu. The following options are available:

### 1) Standard

This corresponds to the Reproduction mode check box being unchecked in previous versions. It will give you a standard film curve response suitable for standard photography.

### 2) Reproduction

This corresponds to the Reproduction mode check box being checked in previous releases. It will give you a linear response thereby providing the best possible color reproduction. The linear response is tuned so that it will give you correct ISO sensitivity.

### 3) Reproduction Low Gain

The old reproduction mode added some gain in order to obtain the correct ISO sensitivity. This Low Gain mode also provides a strictly linear response but avoids adding any unnecessary gain and therefore in situations where you are able to increase the exposure correspondingly, using this low gain response will result in better quality images.

### 4) Negative

This inverted response will be suitable if you are reproducing B&W negatives. Please note that the EV, Shadow Fill and Highlight recovery adjustments apply to the image before the inversion has taken place. While of course you can also use this mode for color negatives handling those will also require the ability to specify separate shadow and highlight points for R, G and B and this feature has yet to be added.

## Rodenstock eShutter support

With this shutter connected via USB you will now be able to control its aperture and shutter setting from within Phocus. The camera should be configured as pin-hole and a trigger cable connected from camera to eShutter.

## Various improvements

- CinemaDNG export has been changed to obtain better Adobe Premiere compatibility
- adds support for the XCD 30 lens
- also contains a large number of stability and usability improvements

## Change log

### V 3.1.4

- fixes an issue that could lead to excessive noise correction being applied to H6D-100c ISO 64 images
- fixes an issue with custom color calibration linearization data not being properly applied on exports and 100% view

### V 3.1.3

- improved hot pixel removal for all CMOS based cameras
- embedded thumbnails of 3F files now correctly reflect custom color calibrations
- fixes a crash issue when using the small embedded preview size in conjunction with 100mp captures
- also includes a few stability improvements

### V 3.1.2

- fixes an issue that prevented imports when no IPTC presets are present
- fixes possible tethered capture issues with H4D-40 and H4D-50 cameras
- adds further stability improvements

### V 3.1.1

- images using keystone correction will now show up correctly in 100% view on Mobile clients
- the apply check box for the Keystone tool is now correctly handled
- fixes delayed fast preview with H3D cameras
- firmware update of H5D and older cameras has been reenabled
- current time is now correctly updated on H5D and older cameras
- fixes problem viewing images with non-ascii filenames