# Phocus 2.8.3 Windows read-me

December 9th 2014

**Since Phocus 2.8.2**

- in CMOS live video the option to use automatic exposure control has been added via a check box in the viewer top bar (requires firmware 3.5.8R or later)

- support for the new live video feature in Phocus Mobile 2.2 has been added

- neutralization tool is now enabled when using live video

- labels are now underlined during live video. ISO, EV and White Balance have separate values for live video usage - this is now signaled by their labels being underlined

- miscellaneous other live video fixes and improvements

- fixed an issue that could lead to inaccurate white balance using the neutralization picker

- fixed Chinese translation

- in the tool: "Job Info" the "name preset" setting will be stored between Phocus sessions

- fixed an issue that could lead to a crash when using the thumbnail views rubber band selection tool

- processing enhancements for H5D-50c and CFV-50c

- H5D-60 live video auto aperture functionality in detail view has been improved

- a viewer issue related to scene calibration on 60 mp images has been fixed

- fixes a problem with DNG export of multi-shot and 6 shot images

## Installation

To install Phocus, run the installation bundle called Phocus 2.8.2 Setup.exe. 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 64-bit and Windows 8 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 2.8

Capture Sequencer

This new tool enables various kind of tethered capture automation like interval capture, self timer and exposure bracketing. In an existing installation you will need to manually add it - or select to load the default tools for the Capture tab. Included is a number of factory presets demonstrating the various possible usage scenarios but you are free to set up your own sequences and save them as additional user presets.

Basically a sequence consists of a number of capture steps. For each step you can define aperture and/or shutter offsets relative to the exposure settings set when the sequence is started. Using the cycle button you can setup a number of repeats of all steps and indicate a timing interval for the repeats. It's also possible to setup a pre-delay thereby delaying the start of the sequence after pressing play.

Compare mode in landscape orientation

When using the viewer in compare mode it's now possible to select between portrait and landscape format. In the middle of the top viewer bar there's an A-B button that can be used to toggle between the 2 modes.

New Hasselblad L* RGB working space option

In the Reproduction tool a Working Space popup has been added that will allow you to select between **Hasselblad RGB** and **Hasselblad L* RGB**. In previous versions of Phocus the working space would always be **Hasselblad RGB**. The new **Hasselblad L* RGB** working space is especially relevant if you are working with image reproduction. As the name implies it's using an L* gradient but also at the same time the gamut of the working space has been expanded compared to **Hasselblad RGB**.

Related to this new option the UI for selecting the input profile has changed slightly. Previously unless you were using your own custom profile you would want to select **Hasselblad RGB** in the

profile menu. Since the profile needs to match the selected working space the profile menu now has an entry that says **Factory**. In effect this will select the factory input profile that matches the currently selected working space. If the working space is **Hasselblad RGB** factory will translate to the old **Hasselblad RGB** profile. If the selected working space is **Hasselblad L\* RGB** factory will be interpreted as the new **Hasselblad L\* RGB** profile.

Of course it should also be noted that in case you are doing custom profiles any existing profiles will need to be recalibrated if you select to use **Hasselblad L\* RGB**.

Integration of self-calibrating Eizo displays

Calibration of these displays can now be handled directly from Phocus. This ensures that the display is setup to provide the best possible results for the viewing of Hasselblad images.

Once an eligible monitor is connected Phocus will show a dialog asking whether you want to handle calibration. If you choose to do this you will be guided to an extra Eizo tab in the Preferences window where it's possible to setup calibration options and start the actual calibration. This preference tab will also let you toggle whether Phocus should handle calibration or not.

It should be noted that it's not currently possible for us to integrate with calibrations made by Eizo's own ColorNavigator software. Therefore once you've made a calibration using Phocus launching ColorNavigator will switch the display back to the last calibration made by itself. When you switch back to running Phocus you will be prompted about this change and will get the opportunity to restore the calibration made by Phocus or alternatively stop handling the calibration from Phocus. In fact just running the ColorNavigator Agent will interfere so we recommend that you switch off that option in the ColorNavigator preferences dialog.

The calibration target chosen by Phocus will of course be optimized to work with our Hasselblad RGB and Hasselblad L\* RGB working spaces but it should be noted that the resulting calibration will also work well even if using a somewhat smaller working space like Adobe RGB in Photoshop. However if you routinely view images in much smaller working spaces like sRGB you should make a special calibration for this purpose using the Eizo Color Navigator software.

## Other improvements in 2.8

Compared to 2.7.6 these changes are also worth mentioning:

- an issue that would prevent using live video on an H5D in flash sync mode has been fixed

- some issues with dust removal in the viewer has been fixed

Also a number of minor fixes are included.

## Change log

V 2.8.2:

- introduces live video support for the H5D-50c, note that sensor unit firmware R 3.4.3 or later is required

- the scene calibration tool has been much improved when handling 60mp tilt and shift images

- fixes issue with incorrect ISO handling of Ixpress files

- fixes a problem with incorrect DNG exports of 60mp images

- fixes an issue with missing fast previews during tethered capture for some older camera models. If zoomed in beyond 25% this could lead to missing display of new captures

- fixes possible crash issue when viewing multi-shot images

- fixes a problem that lead to missing dust removal on certain multi-shot images

- includes noise reduction adjustments for H5D-50c

V 2.8.1:

- adds support for the H5D-50c.

- displays remaining time during long tethered exposures

- the new EIZO CG277 monitor can now be calibrated

- adds support related to Phocus Mobile 2.1

- fixes an issue that could lead to dark lines in exported images when using color noise reduction without lens correction

- fixes some issues with the directory tree

- thumbnails will automatically resize when changing the view size, provided that you are currently displaying a single line of thumbnails.