

Photron FASTCAM Viewer

for High Speed Digital Imaging

Release Notes
Ver. 4.4.0.0 E

Photron

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Contents

Chapter 1. Release Summary	4
1.1. PFV4 Release Notes.....	5
1.1.1. PFV Version.....	5
1.1.2. Contents of the installation data	5
Chapter 2. New Functions	6
2.1. PFV4.4.0.0 New Functions	7
2.1.1. New Camera Support.....	7
2.1.2. Additional Function	7
Chapter 3. Bug Fix and Other Changes	9
3.1. PFV4.4.0.0 Fixed Bugs and Changes	10
Chapter 4. The Contents of SDK	19
4.1. The Contents of SDK	20
4.1.1. New Camera Support.....	20
4.1.2. Additional Function / Improvement.....	20
4.1.3. Bug Fix	20
A. Appendix	21
A.1. Cache Storing Specification Change	22

1

Chapter 1. Release Summary

1.1. PFV4 Release Notes

1.1.1. PFV Version

- PFV Ver. 4.4.0.0
- SDK (PDCLIB.DLL) Ver. 4.4.0.0

1.1.2. Contents of the installation data

- PFV Setup64: PFV installer for 64bit Windows
- PFA: PFA (Photron FASTCAM Analysis) installer
- SDK: SDK components, documents, and samples
- LabVIEW and MATLAB: SDK for LabVIEW and MATLAB, documents, and samples
- Doc: PFV4 Users Manual, First Step Guide, and License Activation Guide
- CheckerBoard: Image data of checkerboard for lens distortion correction
- ReleaseNotes: PFV4 Release Notes
- ReportSample: Sample data for Report output function
- Driver: Device drivers

2

Chapter 2. New Functions

2.1. PFV4.4.0.0 New Functions

2.1.1. New Camera Support

FASTCAM Orion S40 is supported.

2.1.2. Additional Function

Common to the all modes		
Item	Fixed / Modified Item	
[MENU]	[Configuration] – [Save]	It is now possible to set the parallel save function separately for “download from camera memory” and “re-save opened file”.
[Quick Tools]	It is now possible to register favorite menus on the Quick Toolbar. By registering menus that are used frequently, you can quickly access them and improve usability.	
	The behavior when clicking on “Rotate” and “Invert” has been changed as follows. - Rotate: Click to rotate the image 90° to the right. Hover over the mouse cursor to specify the amount of rotation (90°, 180°, 270°). - Invert: The image will flip each time you click (“horizontal flip” to “vertical flip” to “horizontal&vertical flip” to “cancel flip”). Hover over the mouse cursor to specify the type of flip (horizontal flip, vertical flip, horizontal&vertical flip).	
Other	The following camera debayer processing is now GPU-compatible. - Mini R5/R3 - Nova R5/R3 - MH6 - Mini UX - Mini CX - Multi	

LIVE mode		
Item	Fixed / Modified Item	
[MENU]	[Configuration] – [Record]	The trigger test function has been added when the “Auto save after recording” function is enabled. This allows you to skip the saving process and check the trigger when testing the recording.
[Add-ons]	[PFV4 Mobile]	The [Update] button has been added to the lens control menu. This means that when you change lenses or adjust the focus of a lens, you can now update the settings from the iPad as well as from the PC in the control room.
		The colors of the buttons have been changed when the rotation function (left rotation, right rotation) and inversion function (vertical inversion, horizontal inversion) are applied. This makes it easier to understand the applied status.
		The [FIT] button, which adjusts the size of the image to the size of the view window, has been added.

MEMORY/FILE mode		
Item	Fixed / Modified Item	
[MENU]	[Configuration] – [Preference]	H.264 GPU encoding/decoding (NVIDIA GPU) is now supported.
[Edit]	[Trimming]	It is now possible to specify the save range in multiple areas (up to 10).
[Save]	When saving multiple data, if there is data that failed to save, a message will be displayed. This makes it easier to recognize which data failed to save.	
	The message color has been changed to red to emphasize the progress status when saving fails, is canceled, or is stopped.	
	The default settings for the save window have been changed as follows. <ul style="list-style-type: none"> - “Include Add information” for editing group folder name: Off - “Include Add information” for editing subfolder name: Off - “Add sequence number” for editing file name: Off 	
[Layout save]	It is now possible to save information for images after stitching.	

3

Chapter 3. Bug Fix and Other Changes

3.1. PFV4.4.0.0 Fixed Bugs and Changes

Common to the all modes		
Item	Fixed / Modified Item	
[MENU]	[Export support file]	The GPU information could not be obtained, and the information was not included in the output environment.txt. This bug is fixed.
[Dimensions]	[Measurements]	When creating a circle with overlapping centers using “Two circles” measurement, the measurement result might be expressed as an exponent rather than “0”. This bug is fixed.
	[Calibration]	Rotating or flipping an image might cause the grid lines to disappear. This bug is fixed.
[Edit]	[Trimming]	Even if the “Set original aspect ratio as standard” was inactive, the checkbox itself was still displayed as active in some cases. This bug is fixed.
		When using Nova R5/R3, the following operations would prevent the resolution of the saved area from changing normally (changing the horizontal resolution would change the vertical width, and changing the vertical resolution would change the horizontal width). This bug is fixed. 1. Connect the camera and check “Prioritize speed” in the "Live update speed" settings. 2. Rotate the image “90°” or “270°” using the Quick Tools. 3. In [Edit] - [Trimming], change the resolution of the trimming area.
		When rotating the image (90° or 270°), the aspect ratio of the saved area would not be maintained. This bug is fixed.
		When the “Fixed aspect ratio” setting was switched on and off, the value of the trimming range resolution might not be as intended. This bug is fixed.
Other	When performing the following operations with the binning function enabled, the cursor would not change and the size of the shape could not be resized. This bug is fixed. 1. Display a shape on the image using the following menu. - Histogram - Trimming - Color Adjustment (ROI for auto white balance adjustment) - Software Image Trigger 2. Set the zoom rate to 501% or higher from the Quick Tools. 3. Hover the mouse at the right or bottom edge of the shape.	
	When the selection rectangle was the minimum size (1 x 1 pixel, etc.), you could not resize it using the mouse. This bug is fixed.	

LIVE mode		
Item	Fixed / Modified Item	
[MENU]	[Export support file]	When using Nova R5/R3 and the “Prioritize speed” was checked in the “Live update speed”, PFV4 would crash when the support file was output. This bug is fixed.
	[Configuration] - [Image Quality]	When using Nova R5/R3 and the “Prioritize speed” was checked in the “Live update speed”, the image became abnormal when the software pixel gain calibration was performed. This bug is fixed.
[Function panel]	[Show info]	When displaying the remaining capacity of external storage (FAST Drive, CFast card), processing became slow. This bug is fixed. The frequency of checking the remaining capacity has been reduced.
	[Shutter speed]	When using Nova R5/R3 and the “Prioritize speed” was checked in the “Live update speed”, it was not possible to specify the minimum or maximum value for the rectangular area of the automatic exposure target using the mouse. This bug is fixed.
[Dimensions]	[Measurements]	When measuring from [Dimensions] - [Measurements] with the binning function enabled, the binning setting would not be applied to the measurement results displayed in the information display. This bug is fixed.
[Assistance]	[S/W image trigger]	When using Nova R5/R3, the following operations would cause part of the image (upper center of the image) to be enlarged. This bug is fixed. 1. Connect the camera and check “Prioritize speed” in the "Live update speed" settings. 2. Open [Assistance] - [S/W image trigger]. 3. Check “Image trigger enabled” and click the [x] button in the upper right of the window.
		When using Nova R5/R3, it was possible to change the “Live update speed” setting while the “Image trigger enabled” was checked. This bug is fixed.
		The following operations would cause to display the LIVE mode function panel in MEMORY mode. This bug is fixed. 1. Connect the camera and set the “Mode after recording” to “MEMORY mode” in [MENU] - [Configuration] - [Record]. 2. Display the LIVE mode function panel. 3. Open [Assistance] - [S/W image trigger]. 4. Click the [Record] button, and after the button display changes to [Now Recording...], click the [Settings] button on the S/W image trigger window. 5. Change the Software Image Trigger settings, and then click the [Now Recording...] button 6. Leave the confirmation message “Do you want to apply current settings?” until recording is complete. 7. When recording is complete, click [Yes] or [No] on the confirmation message.

LIVE mode		
Item	Fixed / Modified Item	
[Assistance]	[Image Overlay]	<p>The following operations would prevent the overlaid image from being drawn correctly. This bug is fixed.</p> <ol style="list-style-type: none"> 1. Open the overlaid file (A) in file mode, apply the binning function, and change settings that affect the image such as LUT, color adjustment, filter, or focus assistance, etc.. 2. Connect the camera in LIVE mode and overlay the file A. 3. In FILE mode, click [Binning] menu in the effect status bar to cancel it. 4. Switch to LIVE mode.
		<p>When using Nova R5/R3, the following operations would cause the overlaid image to be displayed at the top left of the screen in a reduced size. This bug is fixed.</p> <ol style="list-style-type: none"> 1. Open the image to be overlaid in FILE mode. 2. Switch to LIVE mode and connect the camera. 3. In the “Live update speed” settings, check “Prioritize speed”. 4. In [Assistance] - [Image Overlay], overlay the image which is opened in step 1. 5. In [Image Quality Adjustment] - [Binning], set “2 x 2” or “4 x 4”.
	[Synchronization Assistance]	<p>When cameras were synchronized via chain connection, the [Connect to signal generator] button, which does not need to be used, was clickable. This bug is fixed.</p>
[Special Effects]	[Lens Calibration]	<p>Repeatedly opening and closing the menu would slow down PFV4 processing speed. This bug is fixed.</p>
[Add-ons]	[PFV4 Mobile]	<p>When creating a ROI rectangle for auto white balance adjustment or auto focus setting by swiping on PFV4 Mobile, the rectangle would be drawn in a position other than the swiped position depending on the rotation or inversion of the image. This bug is fixed.</p>
		<p>When creating a ROI rectangle for auto white balance adjustment or auto focus setting by swiping on PFV4 Mobile, the cursor would not switch on the PC side and the size of the rectangle could not be changed depending on the rotation of the image. This bug is fixed.</p>
		<p>When using Nova R5/R3, the following operations would cause thumbnail images on PFV4 Mobile to be displayed incorrectly. This bug is fixed.</p> <ol style="list-style-type: none"> 1. Uncheck “Live stop” option. 2. Check "Prioritize speed" in the “Live update speed” setting. 3. Launch PFV4 Mobile and connect to the iPad.
		<p>When using Nova R5/R3 and the “Prioritize speed” was checked in the “Live update speed”, the image would be displayed at a reduced size on PFV4 Mobile when you zoomed in/out or moved it. This bug is fixed.</p>
		<p>If the selected camera was different on the PC and PFV4 mobile, the message during auto focus setting on the PC would not disappear on the PFV4 Mobile even if you closed it. This bug is fixed.</p>

LIVE mode		
Item	Fixed / Modified Item	
[Add-ons]	[PFV4 Mobile]	<p>When performing the following operations, the [Start sampling] button for color correction would become active during low light and if you clicked the button, a camera control-related error would be displayed. This bug is fixed.</p> <ol style="list-style-type: none"> 1. Connect multiple cameras, launch PFV4 Mobile and connect to the iPad. 2. Select the same camera (A) on the PC and PFV4 Mobile 3. Select a different camera (B) on PFV4 Mobile and enable low light mode. 4. Open the [Adjustments] - [Color Correction] in PFV4 Mobile.
		<p>When a specific screen was displayed on a PC, the “Lens control” on the side panel of PFV4 Mobile could be operated. This bug is fixed.</p> <ul style="list-style-type: none"> - Configuration window - PFV version information window - Support file output window - License management window - DAQ device selection window - Snapshot settings window
		<p>When loading a PCSX file and connect a camera, some of the buttons on PFV4 Mobile became inactive. This bug is fixed.</p>
		<p>When using Nova R5/R3, even when lens distortion calibration was being performed on a PC, the live update speed setting could be changed from the PFV4 Mobile. This bug is fixed.</p>
		<p>If you dragged the image while the “Move displaying area” in the Quick Tools was enabled and the image was enlarged, there would be a discrepancy between the display in the display area window and the view window. This bug is fixed.</p>
		<p>When the right side panel of the PFV4 Mobile was displaying something other than the “LIVE” menu, switching to MEMORY mode or FILE mode and then switching back to LIVE mode would cause the right side panel to become inactive. This bug is fixed.</p>
		<p>When PFV4 Mobile was launched with the tool registered in the effect status bar and switched to MEMORY mode or FILE mode, the ON/OFF of the tool application status in the effect status bar could be switched. This bug is fixed.</p> <ul style="list-style-type: none"> - Save mode: The change was reflected on the PC side. - File mode: The change was not reflected on the PC side.

LIVE mode		
Item	Fixed / Modified Item	
[Add-ons]	[PFV4 Mobile]	<p>The following operations would cause that the shading would not be executed even the variable setting was selected on the PFV4 Mobile. This bug is fixed.</p> <ol style="list-style-type: none"> 1. Connect the camera and register a variable setting that differs from the current camera settings in at least one of the following settings: frame rate, resolution, or shutter speed. 2. Enable the shading setting in [MENU] - [Configuration] - [Image Quality] and check “Auto shading calibration when frame rate/resolution/shutter speed is changed (only for cameras with mechanical shutter)”. 3. Launch PFV4 Mobile in [Add-ons] - [PFV4 Mobile] and connect to the iPad. 4. On PFV4 Mobile, select the variable settings you registered in step 1.
		<p>If the same camera was not selected on the PC and PFV4 Mobile, the ROI rectangle in the color adjustment menu would not be displayed. This bug is fixed.</p>
	[DAQ Control]	<p>The lines in the graph created with GL DAQ were drawn twice. This bug is fixed.</p>
[Quick Tools]	<p>When using Nova R5/R3 and the “Prioritize speed” was checked in the “Live update speed”, if you repeatedly enabled/disabled the “Fit to screen” in the Quick Tools, the image would be displayed at twice the size. This bug is fixed.</p>	
	<p>When using Nova R5/R3, the following operations would cause the enlarged display area to be different from the intended position. This bug is fixed.</p> <ol style="list-style-type: none"> 1. Connect the camera and check “Prioritize speed” in the “Live update speed” settings. 2. Enable the “Fit to screen” in the Quick Tools. 3. Enable “Zoom selected area” in the Quick Tools and enlarge the desired position. 	
[Snapshot]	<p>When using Nova R5/R3, the following operations would cause the snapshot image not to be generated correctly. This bug is fixed.</p> <ol style="list-style-type: none"> 1. In the snapshot settings, check the “Save CIHX file” and set the save format to “TIFF” or “PNG”. 2. In the “Live update speed” settings, check “Prioritize speed”. 3. In [Edit] - [Trimming] and click the [Apply] button. 4. Click the [Snapshot] button. 	

LIVE mode	
Item	Fixed / Modified Item
Other	<p>When using Nova R5/R3, the resolution display on the save window that appears when auto save after recording or record while saving was enabled would be 1/2 the original size. This bug is fixed.</p> <ol style="list-style-type: none"> 1. Connect the camera, enable “Auto save after recording” or “Record while saving”, and enable “Display a dialog window when the auto save after recording starts” in [MENU] - [Configuration] - [Record]. 2. Set the range in [Edit] - [Trimming]. 3. Check “Prioritize speed” in the “Live update speed” settings. 4. Perform recording and open the save window.
	<p>When using Nova R5/R3, the following operations allowed you to move beyond the size of the image. This bug is fixed.</p> <ol style="list-style-type: none"> 1. Enable the “Fit to screen” in the Quick Tools. 2. In the “Live update speed” settings, check “Prioritize speed”. 3. Enable the “Move displaying area” in the Quick Tools and drag the image to move it.
	<p>When using Nova R5/R3 and the “Prioritize speed” was checked in the “Live update speed”, the display coordinates of the zoom cursor and the coordinates set by clicking on the menu below would differ when the unit setting in the [Configuration] was “Micrometers” or “Yard”. This bug is fixed.</p> <ul style="list-style-type: none"> - Cross cursor - Dimensions
	<p>If you selected a different camera on PFV4 Mobile while setting the following functions, you would be able to set the function even if the camera does not support it. This bug is fixed.</p> <ul style="list-style-type: none"> - H/W image trigger - Variable - Auto Exposure
	<p>The following operations would cause that the progress on the save progress window did not progress, and the screen could not be closed. This bug is fixed.</p> <ol style="list-style-type: none"> 1. Connect to the camera, set the number of partition to “2” or more in [MENU] - [Configuration] - [Record], and check “Record while saving” and “Display a dialog window when the auto save after recording starts”. 2. In [MENU] - [Configuration] - [Save], check “Save INF file”. 3. Click the [Record] button, check “INF save” on the save window, enter any test number, and click the [OK] button.
	<p>The following problems occurred when recording was in standby mode with “Record while saving” enabled. This bug is fixed.</p> <ul style="list-style-type: none"> - The seconds display on the recording playback panel shows “inf”. - The start/end frame is displayed at the first frame position.

LIVE/FILE mode	
Item	Fixed / Modified Item
[Snapshot]	<p>With the snapshot settings as follows, the brightness of the snapshot image would be higher than the original image. This bug is fixed.</p> <ul style="list-style-type: none"> - Save format: TIFF or PNG - Bit depth: 16bit - Bit position: Higher

MEMORY/FILE mode		
Item	Fixed / Modified Item	
[Dimensions]	[Manual tracking]	<p>The following operations would delete the last tracking point in the tracking point list. This bug is fixed.</p> <ol style="list-style-type: none"> 1. Add two or more tracking points from [Dimensions] - [Manual tracking] in MEMORY mode or FILE mode. 2. Select two or more tracking points in the checklist in the tracking point list. 3. Click the [Color change] button and click the [OK] button without selecting a color. 4. Click the [OK] button in the displayed error message.
[Special Effects]	[Stabilization]	<p>The size of the tracking template for the stabilization display could not be changed without dragging the template location before binning was applied. This bug is fixed.</p> <ol style="list-style-type: none"> 1. Apply the binning function in MEMORY mode or FILE mode, and then disable it from the effect status bar icon. 2. Add tracking points from [Special Effects] - [Stabilization]. 3. Enable the binning function from the effect status bar icon.
[Save]	Even if the image was rotated or flipped, the coordinate values of the output waveform data would be the same as before rotation or flipping. This bug is fixed.	
	When displaying "Info save" items at the top or bottom, the position would be offset even if the center alignment setting was applied. This bug is fixed.	
[Layout save]	<p>When performing the layout save with the following settings, subfolders would not be created, the file would not be given the specified file name, or the save would fail. This bug is fixed.</p> <ol style="list-style-type: none"> 1. Check "Save INF file" in [MENU] - [Configuration] - [Save]. 2. Record with multiple cameras or multiple-head cameras, move to the MEMORY mode, and click the [Save] button. 3. Check the "INF save" in the Save option and click the [Apply] button. 4. Click [Cancel] to close the save window and then click [Layout save] button. 5. Check the "Create subfolder", enter a file name and click the [Save] button. 	
	<p>The aspect ratio of the image would change if automatic layout or automatic stitching was performed in the following cases. This bug is fixed.</p> <ol style="list-style-type: none"> 1. Connect multiple cameras. 2. Set a resolution other than 1:1 aspect ratio on one camera (A). 3. Perform recording, moving to MEMORY mode, and rotating the image on camera (A) 90° or 270°. 4. Click [Layout save] button from the [Save] button. 5. Click the [Auto layout] or [Auto stitching] button. 	
[Save] / [Batch converter]	When you re-save (convert) a CIHX file, the geometry-related tags might be deleted. This bug is fixed.	
[Save] / [Report output]	<p>When performing the following settings on the save window, even if you had changed the resolution using the binning function, etc., the resolution displayed in the report output preview would be the values before image processing was applied. This bug is fixed.</p> <ul style="list-style-type: none"> - File format: TIFF, MRAW, or RAWW - Bayer format / Raw data: Enabled - Apply image processing: Enabled 	

MEMORY/FILE mode	
Item	Fixed / Modified Item
Other	Operation might become impossible during synchronized playback. This bug is fixed.
	The following operations would prevent data from playing. This bug is fixed. 1. In MEMORY mode or FILE mode, uncheck “Repeat” and check “Skip” in the play mode. 2. Set the current frame as the start frame. 3. Click the [Forward 1 frame] button once. 4. Click the [Reverse play] button.

FILE mode	
Item	Fixed / Modified Item
[Dimensions]	[Manual tracking] The following operations might cause PFV4 to crash. This bug is fixed. 1. Open multiple files and group them. 2. Open [Dimensions] - [Manual tracking] and add tracking points. 3. Right-click on the view and switch the selected file within the group. 4. Delete the tracking point pop-up or click the [Color change] button. The [Undo] button could not be used for the change to the “Click to go to next frame” setting. This bug is fixed.
	[Calibration] When “By camera” - “Manual” was selected for an image file (other than a CIHX file) that does not have device information, the scale value would be displayed as a negative number. This bug is fixed.
[Special Effects]	[Stabilization] When opening a file that does not have frame number “0” and tracked it using the “Stabilization” function, the preview on the save window and the image status would not be the same. This bug is fixed.
[Open]	When loading a file, the manual tracking graph data is now loaded regardless of the “Apply image processing” setting.
[Batch converter]	When performing data conversion from the [Batch converter] button without opening any files, PFV4 would crash. This bug is fixed.
[Quick Tools]	When performing the following operations, the Quick Tools would remain enabled even after you switched the selected file within the group. This bug is fixed. 1. Open multiple files and group them. 2. Enable one of the Quick Tools: “Move displaying area”, “Drag to zoom”, “Zoom selected area”, “Rotate image”, or “Invert image”. 3. Change the selected file in the file list. * The Quick Tools will be disabled in the display. 4. Drag on the image.
Other	The following operations allowed you to display multiple files in the same group at the same time. This bug is fixed. 1. Open multiple files and group them. 2. Right-click on the view screen to switch the selected file. 3. Drag in the file list to select multiple files at the same time.

FILE mode	
Item	Fixed / Modified Item
Other	<p>When switching between selected files in a grouped file, the current frame number would remain the same as before the file was switched. This bug is fixed.</p> <p>Example:</p> <ol style="list-style-type: none"> 1. Group the file A (start frame 0 - end frame 100) and the file B (start frame 50 - end frame 60), select file A, and set the current frame to “20”. 2. When file B is selected, the current frame will be “20” (outside the playback range).
	<p>If you unchecked the “Apply image processing” in the save options after applying image processing, saved the data, then checked the “Apply image processing” again and saved the data again, the tool might be registered in the effect status bar when you opened the data. This bug is fixed.</p>

4

Chapter 4. The Contents of SDK

4.1. The Contents of SDK

4.1.1. New Camera Support

FASTCAM Orion S40 is supported.

4.1.2. Additional Function / Improvement

N/A

4.1.3. Bug Fix

N/A

A

A. Appendix

A.1. Cache Storing Specification Change

Starting with PFV4.0.6.0, cache data is stored in the PC to speed up the startup process.

■ Target model

PFV (SDK): Ver. 4.0.6.0 or later

Camera: Nova S/R series, Mini R5, MH6, and cameras to be released in the future

■ Expected Benefits

Faster connection between PFV and camera

When connecting to a camera, correction data was loaded from the camera.

This loading process took a long time for the connection.

By storing the cache data in the PC, the data loading time from the camera can be reduced and the connection speed can be improved.

■ Storing Location

Cache data is stored in the following folder.

C:\Users\User Name\AppData\Roaming\Photron\PDCLIB\Devices\Camera Name\XXXXXXXX

* “User Name” is the user’s local folder name.

* “XXXXXXXX” is a non-duplicate alphanumeric string based on camera and head information.

e.g. C:\Users\User Name\AppData\Roaming\Photron\PDCLIB\Devices\Nova
S12\978C95093DC3BC7EDAEAFEAB771CA6F2

■ Contents of Data

Cached data includes camera correction data (pixel gain, shading, and missing pixel).

■ Details

The camera’s MAC address (Serial number) is used to link to the cached data.

As long as there is no camera with the same MAC address (Serial number), incorrect (from another camera) data will not be linked.



CAUTION

When a camera is returned to Photron for maintenance or repair and the camera’s image quality is readjusted, the cache data remaining on the PC must be deleted so that the old cache data is not referenced.

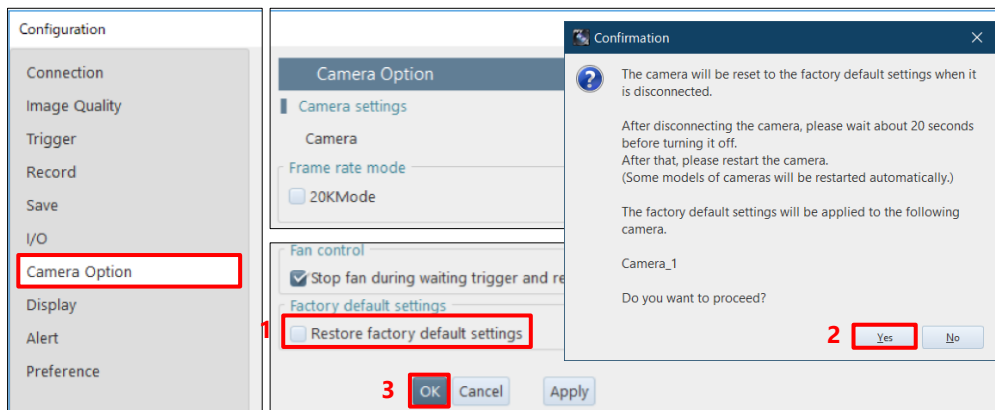
See “How to Delete Cache Data” on page 21 for detailed instructions.

* If the camera is connected without deleting the old cache data, the camera will use the old correction data before image quality readjustment for its operation. In this case, the correction data inside the camera will not be overwritten.

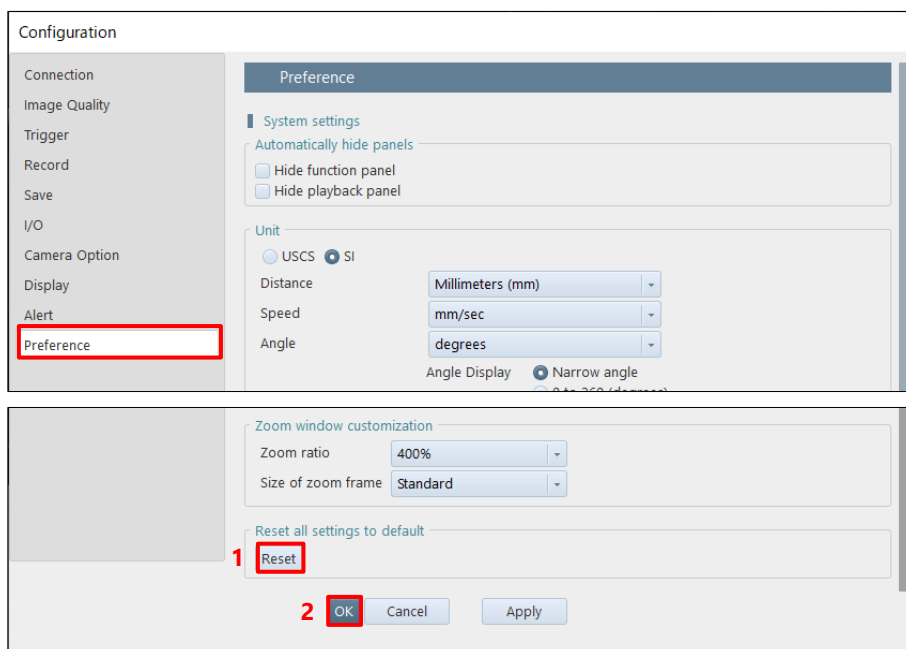
■ How to Delete Cache Data

- If using PFV4, do A), B), or C).
- If using SDK, do C) or D).

A) Initialize the camera from PFV4 to factory settings (after connecting the camera).



B) Perform PFV4 reset (before connecting the camera).



C) Delete cache data directly in the AppData folder (before connecting the camera).

C:\Users\User Name\AppData\Roaming\Photron\PDCLIB\Devices\Camera Name\XXXXXXXX

D) Execute the SDK function “PDC_EraseCachedCorrectionData()” (before connecting the camera).
For details, refer to the SDK Help file.

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