

Photron FASTCAM Viewer

for High Speed Digital Imaging

Release Notes

Ver. 4.0.5.1 E

Photron

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Contents

Chapter 1. Release Summary	1
1.1. PFV4 Release Notes.....	2
1.1.1. PFV Version.....	2
1.1.2. Contents of the folder in DVD.....	2
Chapter 2. New Functions	3
2.1. PFV4.0.5.1 New Functions	4
2.1.1. New Camera Support.....	4
2.1.2. Additional Function	4
Chapter 3. Bug Fix and Other Changes	6
3.1. PFV4.0.5.1 Fixed Bugs and Changes.....	7
Chapter 4. The Contents of SDK	9
4.1. The Contents of SDK	10
4.1.1. New Camera Support.....	10
4.1.2. Additional Function	10

1

Chapter 1. Release Summary

1.1. PFV4.0.5.1 Release Notes

1.1.1. PFV Version

- PFV Ver. 4.0.5.1
- SDK (PDCLIB.DLL) Ver. 3.11.0.0

1.1.2. Contents of the folder in DVD

- PFV Setup32: PFV setup for 32bit Windows
- PFV Setup64: PFV setup for 64bit Windows
- PFA: PFA (Photron FASTCAM Analysis) setup
- SDK: SDK components, documents, and samples
- LabVIEW and MATLAB: SDK for LabVIEW and MATLAB, documents, and samples
- Doc: Manuals of PFV, cameras, and others
- CheckerBoard: Image data of checkerboard for lens distortion correction
- ReleaseNotes: Release notes of PFV
- ReportSample: Sample data for Report output function
- Driver: Device drivers

2

Chapter 2. New Functions

2.1. PFV4.0.5.1 New Functions

2.1.1. New Camera Support

No applicable

2.1.2. Additional Function

Common to the all modes		
Command / Modified Item		Fixed / Modified Item
[Adjustment s]	[Filters]	Sobel Filter is now available

LIVE mode		
Command / Modified Item		Fixed / Modified Item
[Function panel]	–	The focus range of EF lenses has been extended from 4 digits to 5 digits, and the focus adjustable range has been expanded.
	–	Removed the focus unit notation (m) in the lens control.
[Assistance]	[Synchronization Assistance]	Photron Camera Hub is now supported. Improved the UI of the settings window.
Other	–	When ST Cam needs to reset the camera communication due to a sudden temperature change, a warning message is now displayed and the camera is automatically reset. This can also be done via the camera communication reset button.
	–	Switching between camera and file selection has been faster.

LIVE/MEMORY mode		
Command / Modified Item		Fixed / Modified Item
[Recording/ Playback panel]	–	The default partition name has been unified to “P-001”, “P-002”... for all languages.

LIVE/MEMORY mode		
Command / Modified Item		Fixed / Modified Item
[MENU]	[Configuration] - [Save]	When the “Add to file list automatically” checkbox is checked, the function of automatically adding files to the file list after saving will now also work when the file is re-saved.
–	–	<p>Keyboard shortcuts are now supported for saving commands.</p> <p>The following shortcuts have been added to the [MEMORY] mode.</p> <ul style="list-style-type: none"> • [Ctrl]+[S]: Displays Save screen • [Ctrl]+[L]: Displays Layout save screen <p>The following shortcuts have been added to the Save screen.</p> <ul style="list-style-type: none"> • [Ctrl]+[Enter]: Start saving • [Esc]: Cancel • [Ctrl]+[S]: Apply <p>The initial focus of the Save screen is now [File name], and the text is highlighted. * In the FAST Drive Save screen, the initial focus is on the [Data name]. The initial focus is given to the group name > subfolder name > file name priority.</p>

Other	
Fixed / Modified Item	
When the Mini CX is connected, the simultaneous setting of [Enable hardware auto data save] and [Automatically start saving to CFast card] is no longer possible.	
Removed the function that automatically starts saving to the CFast card when the external power supply is interrupted when connected to the Mini CX.	

3

Chapter 3. Bug Fix and Other Changes

3.1. PFV4.0.5.1 Fixed Bugs and Changes

Common to the all modes		
Command / Modified Item		Fixed / Modified Item
[MENU]	[Export support file]	The message “head delay report 6 : command receive failed.” was displayed on rare occasions when outputting a support file with MH6. This bug is fixed.
[Quick Tools]	[Rotate image]	Specifying an area for the software image trigger while the image was rotated would move a different edge than the one specified by the mouse. This bug is fixed.
Other	–	Editing the frame number and moving it with the [Tab] key when there are multiple windows did not reflect the settings. This bug is fixed.

LIVE mode		
Command / Modified Item		Fixed / Modified Item
[MENU]	[Configuration] - [Record] - [Edit partition name]	The partition name was not reflected when “partition1” was entered from [Edit] in [Edit partition name]. This bug is fixed.
[Function panel]	[Save/Load camera control settings]	When partitioning a file, and loading the pcsx file with a small number of frames saved before partitioning, the saved range display is corrupted. This bug is fixed.
[Add-ons]	[PFV4 Mobile]	Reflection confirmation message did not appear when auto focus was executed via PFV4 Mobile. This bug is fixed.
Other	–	With “Record while saving” enabled, even if the saving was canceled on partition 2 or later, it would not be canceled until the saving of the partition being saved was completed. This bug is fixed.
Other	–	Timeout might occur in ST Cam when acquiring live images after resetting the camera communication due to a sudden temperature change. This bug is fixed.
Other	–	When cameras that support partitioning and cameras that do not support partitioning were connected together, the number of partitions was set to 1 when a partitioning supported camera was selected in the [Configuration]. This bug is fixed.

MEMORY mode		
Command / Modified Item		Fixed / Modified Item
[Save]	–	During Auto-conversion after saving, the conversion was rarely canceled in the middle. This bug is fixed.
[Save]	[Convert data name] - [Add sequence number]	When saving to FAST Drive, if “Enable hardware auto save” is checked and the data is automatically saved after recording, the data name of the saved data will not be assigned a sequence number even if “Add sequence number” is checked from the [Convert data name] button.

MEMORY/FILE mode		
Command / Modified Item		Fixed / Modified Item
[Save]	[Layout save] / [Batch converter]	When a warning message was displayed when saving, if the save is canceled then [Save Layout] or [Batch Conversion] ([FILE] mode only) was performed again, the target of the save will be specified twice. This bug is fixed.
[Save]	–	When the file name in the Save screen is entered in double-byte characters and confirmed, the cursor moves to the end of the file name. This bug is fixed.
[Monitors]	[Histogram] / [Line Profile] / [Brightness Change]	PFV4 crashed when outputting CSV on rare occasions. In [MEMORY] mode, PFV4 crashed with timeout error. This bug is fixed.

FILE mode		
Command / Modified Item		Fixed / Modified Item
[Open]	–	When importing an AVI file into an INF file, if there was no CIH/CIHX file, the frame rate should be imported as 30 fps, but it was imported as 0 fps. This bug is fixed.
[Save]	–	Frame range shifted when skip saving the data recorded with endless triggers and then re-saving the file. This bug is fixed.
Other	–	MOV files recorded on iPhone were played back in abnormal frame order when played in reverse. This bug is fixed.

4

Chapter 4. The Contents of SDK

4.1. The Contents of SDK

4.1.1. New Camera Support

No applicable

4.1.2. Additional Function

No applicable

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