

Photron FASTCAM Viewer

for High Speed Digital Imaging

Release Notes

Ver. 4.0.5.0 E

Photron

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Chapter 1. Release Summary

1.1. PFV4 Release Notes

1.1.1. PFV Version

- PFV Ver. 4.0.5.0
- SDK (PDCLIB.DLL) Ver. 3.10.0.0

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

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Chapter 2. New Functions

2.1. PFV4.0.5.0 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
[MENU] - [Configuration]	[Alert]	The confirmation and warning setting items have been grouped.
[Function panel]	[User Settings]	The character limit for the User Settings has been removed. The following characters are now available; <ul style="list-style-type: none"> Prohibited characters [space] <> & " ' ! # \$ % () = ~ ^ \ @ ` [] { } * + : ; / ? , Characters that could not be used for the first character of the item name 0 1 2 3 4 5 6 7 8 9 . (dot) - (hyphen)
[Special Effects]	[Keystone Correction]	Exporting and importing correction values for the Keystone correction has been supported.
Other	–	Keyboard shortcuts are now available.

LIVE mode		
Command / Modified Item		Fixed / Modified Item
[Function panel]	[Resolution]	Added 1,024 x 768 resolution to the standard resolution setting of Mini AX.
	[Camera controls] - [Save/Load camera control settings]	When loading a camera control settings file (PCSX file), improved to restore the status of “Frame range for auto save after recording”, “Playback frame range”, “Virtual trigger”, “Repeat”, and “Skip”.
	[Camera list]	Displaying only the connected cameras has been supported.
[Assistance]	[Software Image Trigger]	Added software image trigger plug-in function, which allows you to detect changes in the image from the image displayed on the PFV and input triggers to record, stop, and playback.

MEMORY/FILE mode		
Command / Modified Item		Fixed / Modified Item
[Save]	–	The file path preview is now displayed on the Save screen.

Other
Fixed / Modified Item
Improved to restore the status of “Playback Speed”, “Smooth Playback”, and “Synchronized Playback” when PFV4 is started.
When auto save after recording (hardware/software) is enabled and there is insufficient free space, a warning will be displayed during recording.
The autofocus function of EF lenses has been supported with Nova.
PFV4 Mobile is now compatible with iPad iOS version Ver. 13.3.1 or later.
With Mini CX firmware 3.11.53 or later, acceleration information is output to CIHX.
Mini CX now supports the IRIG function.

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Chapter 3. Bug Fix and Other Changes

3.1. PFV4.0.5.0 Fixed Bugs and Changes

Common to the all modes		
Command / Modified Item		Fixed / Modified Item
[Recording/ Playback panel]	[Snapshot]	The same number of binning warning messages were displayed as the number of view windows. This bug is fixed.

LIVE mode		
Command / Modified Item		Fixed / Modified Item
[Function panel]	[Low light]	Turning on low light with multiple cameras connected with “Display with a maximum resolution” unchecked, images were displayed at maximum resolution or PFV4 might crash. This bug is fixed.
		Turning on low light with “Display with a maximum resolution” unchecked when the MH6 camera head and ST Camera head were connected together to MH6, the low light is not turned on only for the ST Camera head. This bug is fixed.
[Add-ons]	[PFV4 Mobile]	When checking “Display at maximum resolution” for low light, the red frame indicating the actual resolution and other plug-in overlays are now displayed on the iPad side of PFV4 Mobile, and the display is now the same as on the server (PC) side.
		By tapping to turn off the “Recording” message that appears during recording standby and recording status, the lens aperture and focus could be controlled via PFV4 Mobile. This bug is fixed.

LIVE/FILE mode		
Command / Modified Item		Fixed / Modified Item
Other	–	The warning that appears when a lot of cameras or files are connected/opened also appeared by counting the number of unopened data on the connected SD card, FAST Drive, or CFast card. This bug is fixed.

MEMORY mode		
Command / Modified Item		Fixed / Modified Item
[Save]	[Auto conversion after saving]	During automatic conversion after saving, if the recording was performed again with “Auto-conversion after saving” checked and the destination set to the same, the file might be overwritten. This bug is fixed.

MEMORY/FILE mode		
Command / Modified Item		Fixed / Modified Item
[Save]	–	The Save screen became blank on rare occasions. This bug is fixed.
	[Skip save]	It took time to display the Save screen in proportion to the number of recorded frames. This bug is fixed.
[Recording/ Playback panel]	[Snapshot] - [Snapshot Settings]	The “Create group folder” checkbox was not activated. This bug is fixed.
Other	–	Improved the sort order of file names in the following screens. <ul style="list-style-type: none"> • File list in FILE mode • File list of Save screen • File list of progress screen

FILE mode		
Command / Modified Item		Fixed / Modified Item
[Save]	–	Fixed the file mode destination setting so that when both “Same as original path” and “Create group folder” are checked, the relationship will be exclusive.
	–	When opening AVI data with WVDX (binary file with recorded waveform data) output by PFV3 in PFV4 and outputting as CSV, PFV4 crashed. This bug is fixed.
	Graph	Skip saving a file with waveform data, and then opened the saved file in FILE mode to display the waveform, PFV4 crashed. This bug is fixed.

Other		
Fixed / Modified Item		
Afterimage of the window remained in the effect status bar or view window during operation. This bug is fixed.		
When a multiple head camera is connected, selecting a range using the mouse in the plug-in menu could sometimes cause slowdown. It has been improved to prevent slowdown.		

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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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Issued date March 2021
Issued by PHOTRON LIMITED
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