

Photron FASTCAM Viewer

for High Speed Digital Imaging

Release Notes
Ver. 4.0.6.1 E

Photron

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Chapter 1. Release Summary

1.1. PFV4 Release Notes

1.1.1. PFV Version

- PFV Ver. 4.0.6.1
- SDK (PDCLIB.DLL) Ver. 4.0.6.1

1.1.2. Contents of the folder in DVD

- | | |
|-----------------------|---|
| - 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: | 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. PFV4.0.6.1 New Functions

2.1.1. New Camera Support

FASTCAM Nova R3-4K is supported.

2.1.2. Additional Function

Common to the all modes

Command / Modified Item		Fixed / Modified Item
[Assistance]	[S/W image trigger]	The settings window is now compatible with the dark UI display.

LIVE mode

Command / Modified Item		Fixed / Modified Item
[Function panel]	[Dual slope shutter]	Dual slope shutter is now supported with Nova R5 / R3.

Other

YOKOGAWA DAQ's temperature and strain modules for voltage measurement now support level triggering.

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Chapter 3. Bug Fix and Other Changes

3.1. PFV4.0.6.1 Fixed Bugs and Changes

Common to the all modes		
Command / Modified Item		Fixed / Modified Item
[MENU]	[Configuration] – [Connection] – [Ethernet settings]	While clicking the [Optimize] button to perform optimization, the [Optimize] button could be clicked again, resulting in anomalous behavior. After clicking the button once, the [Optimize] button was disabled and the button cannot not be clicked.
		When operating PFV while “Optimization” was running, the “Configuration” window would not open. PFV operations are no longer available during “Optimization”.
		Failed optimization might result in an error instead of returning to the original parameters before optimization. This bug is fixed.
	[Configuration]	PFV crashed when the following operations were made. This bug is fixed. 1. Hover the mouse over the [OK] or [Cancel] button. 2. Hold down the [Enter] key on the keyboard and click the [OK] or [Cancel] button.
[Function panel]	[Edit info]	Camera control related error occurred when Nova series was connected to FAST Drive and “FAST Drive free space” is set to be displayed. This bug is fixed.
Adjustments	[Binning]	When binning was enabled and the screen was rotated (90 degrees) and the width/height of the range setting was changed, the width/height values were swapped and reflected. This bug is fixed.

LIVE mode		
Command / Modified Item		Fixed / Modified Item
[Function panel]	[Camera Controls] - [Camera list]	When MH6 was connected, turning off the camera from the [Power Off] button and then starting MH6 again caused an error and PFV crashed. This bug is fixed.
	[Setup]	When using variable settings with Nova S12, “0 x 0” might appear in resolution drop-down list and PFV crashed. This bug is fixed.
[Function panel]	[Camera Controls] - [Save/Load camera control settings]	When presetting with the variable settings deleted, the settings in the function panel were displayed as None. This bug is fixed. With this modification, the camera mode will return to default even after presetting after deleting the variable settings.
		When a pcsx file was saved when MH6 was connected, and then pcsx was loaded after replacing the color head with a monochrome head, abnormal operation occurred. The “color/monochrome” head distinction was not being made, and this is fixed so that the distinction can be made correctly.
		After saving a pcsx file with variable settings and deleting the relevant variable settings from the camera, an error occurred when loading the pcsx file. This bug is fixed.

LIVE mode		
Command / Modified Item		Fixed / Modified Item
[Function panel]	[Lens controls]	Autofocus did not execute with low resolution setting This bug is fixed.
[MENU]	[Configuration] – [I/O]	When opening I/O settings, if MH6 and other cameras were connected, a camera control related error appeared three times in a row. This bug is fixed.
	[Configuration] – [Record]	When Nova S20 was connected, PFV might crash when recording was completed with “Automatically increment partitions by software” checked in the “Operation after recording” column. This bug is fixed.
[Add-ons]	[DAQ Control]	After connecting YOKOGAWA DL350 and initial startup and setting, when starting up again, an error always occurred when connecting and the settings returned to the initial state. This bug is fixed.
		When connecting to YOKOGAWA DAQ and the DAQ add-on was launched with no supported modules, PFV4 crashed. This bug is fixed.
		Improved to retain the input information (serial number) when connecting YOKOGAWA DAQ and PFV with “USBTMC” so that the confirmation screen will not appear the next time the connection is made.
		If the unit was set to “mV” on the GRAPHTEC DAQ main unit, an error occurred when setting the level trigger. This bug is fixed.

MEMORY mode		
Command / Modified Item		Fixed / Modified Item
[Save]	–	When Nova S20 or Nova R5 was connected, it failed in saving data recorded with frame rate “2fps” and resolution “128 x 8” settings. This bug is fixed.
		When connecting MH6 and saving to FAST Drive, two ST Cam Heads were displayed in the data list even if only one ST Cam Head was connected. This bug is fixed.
[Monitors]	[Brightness Change]	When a camera was selected and the brightness change window was opened, a graph window created with a different camera than the one selected was also opened at the same time. This bug is fixed.
[Special Effects]	[Cycle View]	PFV4 crashed when multiple heads were connected and “Cycle View” was executed during playback. This bug is fixed.

MEMORY/FILE mode		
Command / Modified Item		Fixed / Modified Item
[Save]	–	When saving to FAST Drive with insufficient remaining capacity, the error was not displayed after the second partition. This bug is fixed.
	[Option]	When “1” was set for the number of divide frames in MRAW options, a single file was generated without dividing. This bug is fixed.
[Dimensions]	[Manual tracking]	PFV crashed when the following operations were made. This bug is fixed. <ol style="list-style-type: none"> 1. Add the “Manual tracking” plug-in to the Effect status bar. 2. Hover the mouse over the tracking point displayed in the image display area and click the [Delete] button. 3. The coordinate information screen does not disappear. Click the [Delete] or [Color change] button again. Modified to close the tracking point information display immediately after deleting a tracking point in step 2.
[Monitors]	[Brightness Change]	PFV crashed when the following operations were made. This bug is fixed. <ol style="list-style-type: none"> 1. Click the [Analyze] button to analyze, and then click the [OK] button. 2. Click the [Reset] button to reset the displayed graph. 3. Click the [OK] button, right-click on the displayed graph, and click “Graph Settings”.

FILE mode		
Command / Modified Item		Fixed / Modified Item
[Batch converter] / [Open (folder/SD/FD/CF)]		FAST Drive utilization display did not show correct values when MH6 was connected. This bug is fixed.
Other	When playing back data saved to FAST Drive from MH6, images might be distorted and might not play back properly. This bug is fixed.	
	When MH6 was connected and recording with Random Center or Random Manual trigger, the image became abnormal.	

Other		
Camera could not connect on a network with a subnet mask other than “255.255.255.0”. This bug is fixed.		
After saving to FAST Drive with MH6, when the head was connected to a different camera connector than the one used for the first recording, the preview image of the saved data was not displayed correctly when recording and saving to FAST Drive again. This bug is fixed.		
The specifications have been changed so that the remaining storage capacity of a CFAST card is not displayed on the information display when the CFAST card is not connected.		

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Chapter 4. The Contents of SDK

4.1. The Contents of SDK

4.1.1. New Camera Support

FASTCAM Nova R3-4K is supported.

4.1.2. Additional Function / Improvement

Dual slope shutter is now supported with Nova R5 / R3.

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Issued date July 2022
Issued by PHOTRON LIMITED
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