Photron FASTCAM Viewer

for High Speed Digital Imaging

Release Notes

（Ver.3.6.1）

Photron

Table of Contents

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Chapter.1　　Release Summary

The following describes the release summary.

1.1. PFV Ver.3.6.1 Summary

PFV Ver.3.6.1 supports FASTCAM Mini AX200 which is the latest model of FASTCAM Mini series. Please use this for shooting and analyzing by the small, high sensitivity and high quality camera AX200.

A new function - auto download to SD card is available at SD card supporting cameras (FASTCAM SA-Z and FASTCAM SA-X2). Important data can be saved securely and immediately. Please use this function for an unrepeatable shooting or examination.

The wave form graph of DAQ option has been improved. Each channel can be set each conversion factor and also the setting is reflected when wave form data is reloaded. In addition, a customized time code setting can be reflected to a graph. For example, a wave form of engine cylinder pressure can be displayed with crank angle unit. The custom time code unit has also been improved to that it can be set 4 digits after the decimal point.

Some functions and usability have been improved; values can be output at Line Profile, various frame rates images can be saved at Layout Saving with synchronizing as time bases, the parallel download supports additional camera models, data transfer speed via giga bit Ethernet is improved.

Some bugs have been fixed and you might feel the smooth operation.

We would like the users will enjoy the latest version of PFV with the FASTCAM high-speed cameras being used in various application fields.

Chapter.2   New Function and Operation

The following describes the new function and the operation.

2.1.   PFV Ver.3.6.1   Additional Function

2.1.1.   Compatible with FASTCAM Mini AX200

FASTCAM Mini AX 200 has a high-quality mode that can be switched on and off for shooting. The high-quality mode is turned OFF by default and improves the shooting image quality when turned ON.

The image quality increases when the high-quality mode is set, but the configurable shooting speed is slower.
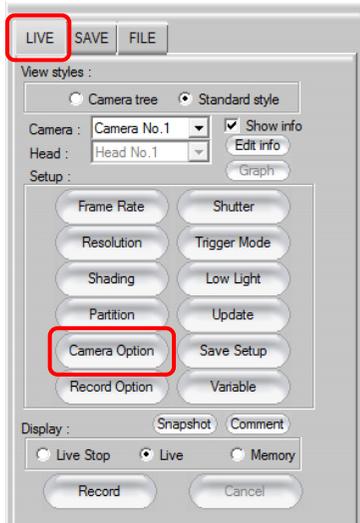
- High-quality mode OFF
  - ■ Maximum shooting speed: 216,000 fps to 900,000 fps (resolution is 128 x 16 pixels)
  - ■ Full frame shooting speed: 6,400 fps

- High-quality mode ON
  - ■ Maximum shooting speed: 216,000 fps to 540,000 fps (resolution is 128 x 16 pixels)
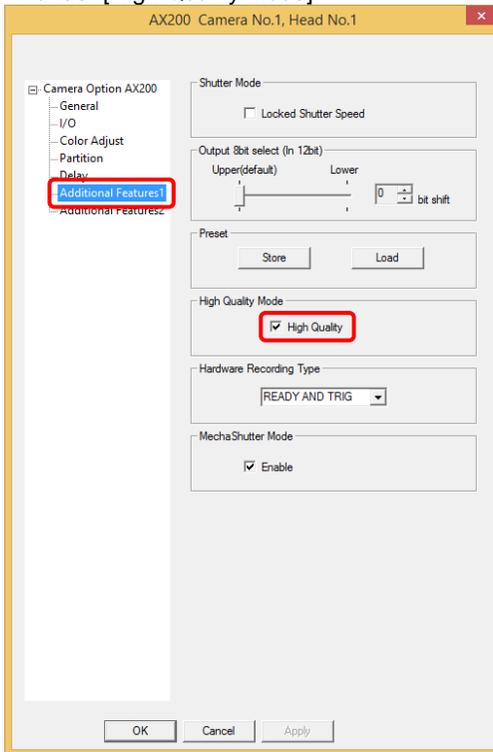 - ■ Full frame shooting speed: 4,000 fps

> **⚠ Caution**
>
> - The maximum shooting speed differs in the export controlled model.
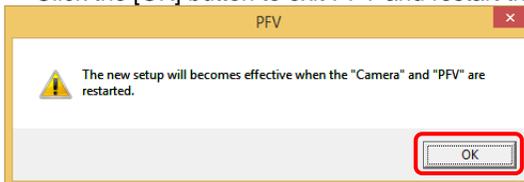
1. Display the control panel's [Live] tab and click the [Camera Option] button.

2. Click [Additional Features1] from the tree on the left side and check the [High Quality] box under [High Quality Mode].
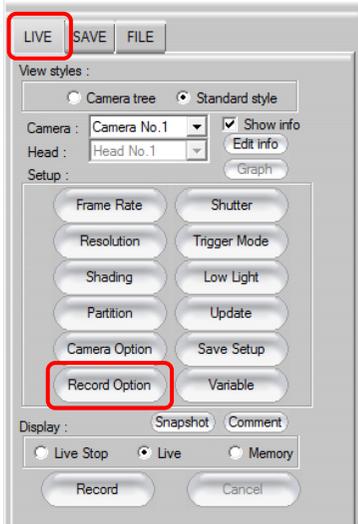

3. The restart message is displayed.
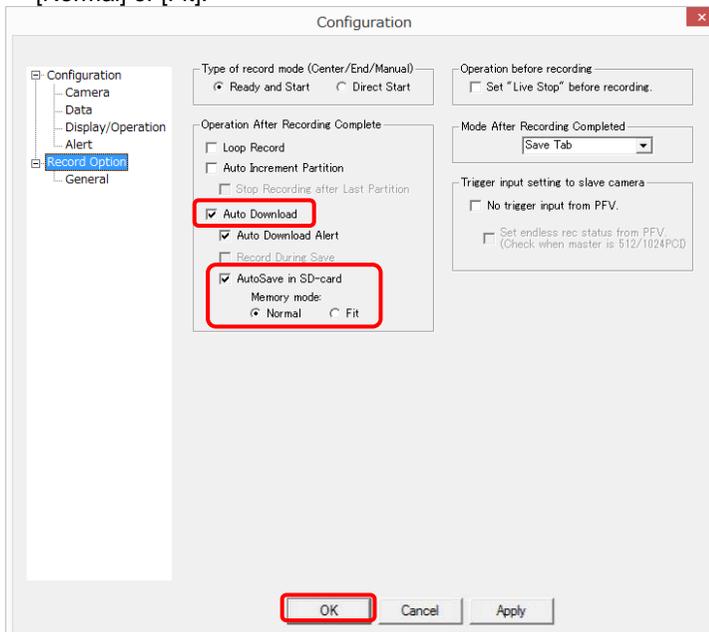   Click the [OK] button to exit PFV and restart the camera.

2.1.2. Automatic save settings (SD card)

You can set the file to be saved automatically to the SD card after shooting (recorded to the camera).

1. Display the control panel's [Live] tab and click the [Record Option] button.

2. Check the [Auto Download] and [AutoSave in SD-card] boxes in that order and then select [Normal] or [Fit].

Item	Description
Normal	Shooting is allowed to the full capacity of the camera memory.
Fit	Shooting duration is limited within the SD card's capacity.

3. Click the [OK] button.

   After the settings are entered, the file is automatically saved to the SD card when recording is finished.

⚠ **Caution**

- When automatically saving to the SD card, shooting cannot start again until the saving is finished.

2.1.3. Parallel download for all Gigabit Ethernet cameras

Parallel download function has been expanded. It supports all of cameras which have Gigabit Ethernet interface.

⚠ **Caution**

- PC has to have same quantities of LAN ports as connecting cameras when the following cameras are included in the network; "SA-Z", "SA-X2", "SA-X", "Multi", "Mini AX", "Mini WX", "Mini UX", "SA8" or "SA7". Otherwise saving images may fail.

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Chapter.3　The Contents of Bug Fix

The following describes the contents of a bug fix.

3.1. PFV Ver.3.6.1 Fixed bugs

The following bugs have been fixed in the PFV Ver.3.6.1:

1. The bug has been fixed; PFV crashed when a long character string is set in the Y axis unit name of the graph setup dialog because there was no limit.

2. The bug has been fixed; images were played 2 frames each even if the skip number is set to 1 frame each at the Skip play when multiple cameras' memory images are played with time bases synchronizing.

3. The bug has been fixed; custom time code was not saved in CIH file.

4. The bug has been fixed; IRIG time was shifted 605 micro seconds at AX50 and AX100.

5. The bug has been fixed; the shading calibration was failed when the auto calibration is executed after changing frame rate, etc. with connecting multiple cameras including AX or WX.

6. The bug has been fixed; PFV crashed when a large number of images are saved with scale information at Info save function.

7. The bug has been fixed; the default language was set to Japanese even if the OS is other language version when PFV is installed first time.

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