FASTCAM

HIGH-SPEED DIGITAL CAMERA

FASTCAM First-Step Guide

Rev. 4.17 E

Easy to learn
Easy to use

Photron

Introduction

Thank you for purchasing a Photron *FASTCAM* series high-speed camera system.

When using, you need to set up and operate the camera in the following steps. This First-Step Guide describes the very basic items (minimum of contents) regarding the setting and operation of the camera.

For handling details, please refer to the product manual downloaded from the Photron official website.

Steps for Setup/Operation

- Checking Components and Accessories
- Preparing and Connecting System Components
- Starting Camera and PFV
- Setting Recording
- Recording
- Playing Recorded Images
- Saving Recorded Images in PC
- Playing Saved Image Data
- FAQ and Contact Information

● Precautions for FASTCAM

To prevent any physical injuries or damages to properties, be sure to follow the below precautions:

- Do not attempt to do anything that may damage AC cables and/or plugs (such as scratching, modifying, bringing near heat-producing device, forcing to bend or twist, pulling, placing under heavy object, binding, etc.). Using a damaged cord or plug may result in a fire, electrical shock, or short circuit.

- Do not use the equipment on voltage over the rating of power outlet or other wirings, or other than power of properly rated voltage. Using the system on higher voltage may cause a fire by overheating.

- Do not introduce metallic objects, water or any liquid in the equipment. It may cause a fire or electrical shock.

- Do not try to disassemble or modify the equipment. It may cause electrical shock because there is high voltage within the equipment.

- Do not handle the power plug with wet hand. It may cause electrical shock.

- Installing screws beyond the specified depth may damage the screw holes or the internal circuit board.

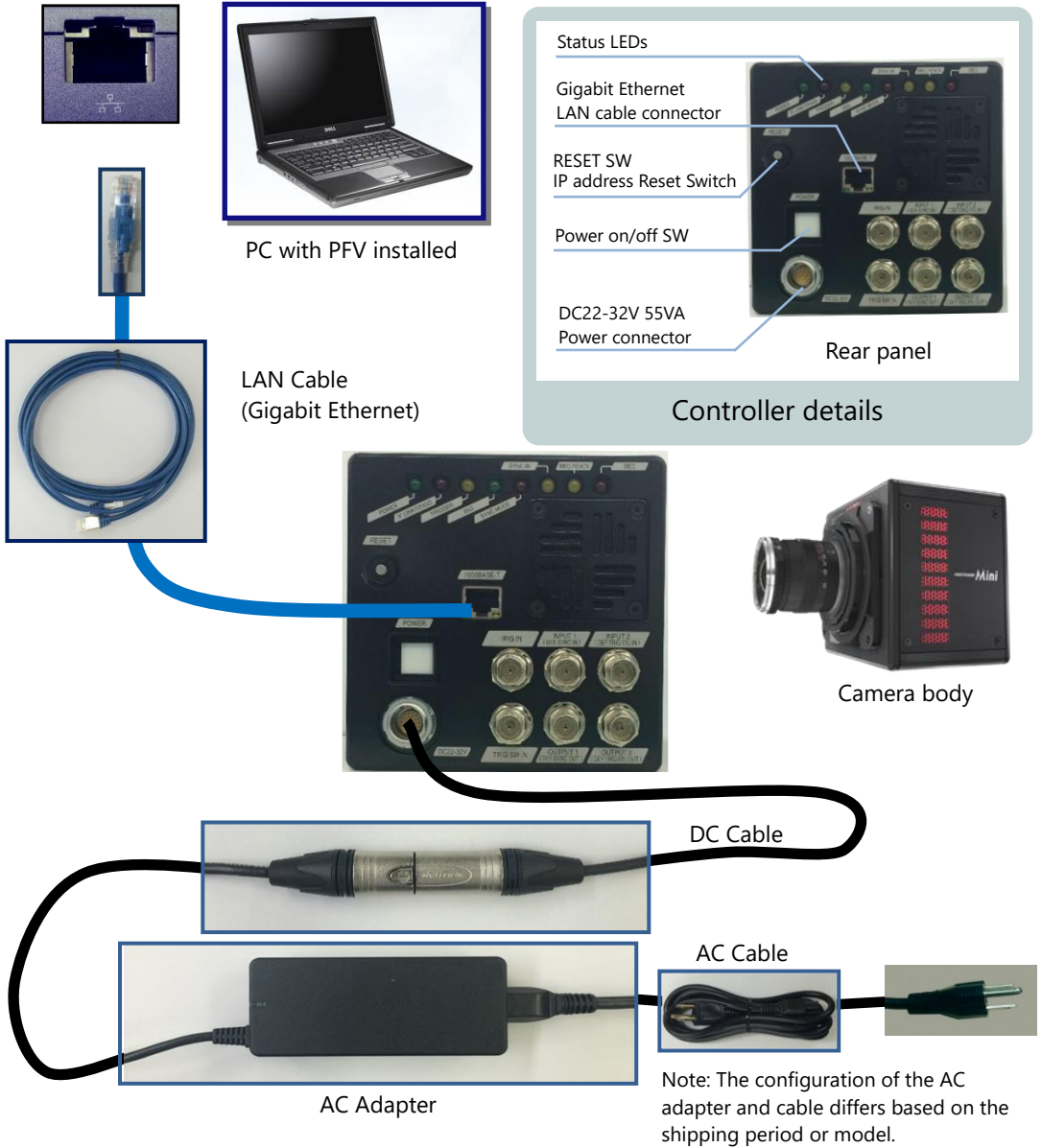- Plug the power plug firmly into a power outlet to the full depth.

- Whenever an abnormality is found, unplug the power cord from the power outlet, such as:
  - When water or any other liquid or metallic object is erroneously put inside the equipment.
  - When the housing is somehow damaged as a result of a fall.
  - When smoke, unusual smell or sound is detected.

  Using the equipment with any of the above abnormal conditions uncorrected may cause fire or electrical shock.

Preparing and Connecting System Components

Device Connections

Standalone Type (Mini AX/WX/UX)

PC with PFV installed

Status LEDs

Gigabit Ethernet
LAN cable connector

RESET SW
IP address Reset Switch

Power on/off SW

DC22-32V 55VA
Power connector

Rear panel

Controller details

LAN Cable
(Gigabit Ethernet)

Camera body

DC Cable

AC Cable

AC Adapter

Note: The configuration of the AC adapter and cable differs based on the shipping period or model.

CAUTION

· The camera supports only 1000BASE-T (1GbE).

Standalone Type (Mini R series)

PC with PFV installed

Status Indicator LED

GIGABIT ETHER
Gigabit Ethernet
LAN Cable Connector

DC IN 22-32V
Primary Power
Supply Connector

RESET
RESET Switch

POWER
POWER Switch

BATTERY DC22-32V
Secondary Power
Supply Connector

Rear panel
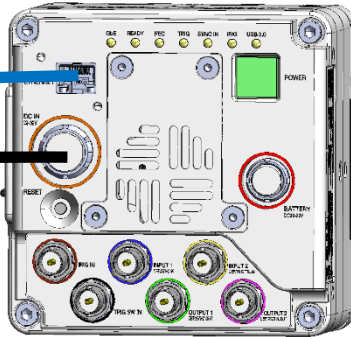
Controller details

LAN Cable
(Gigabit Ethernet)
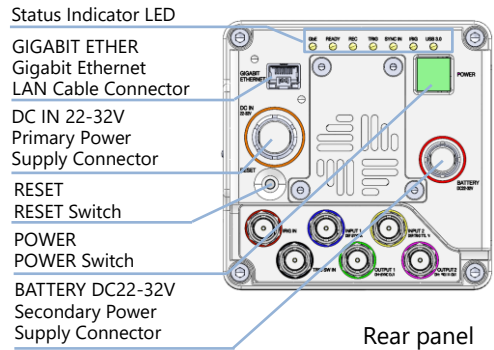
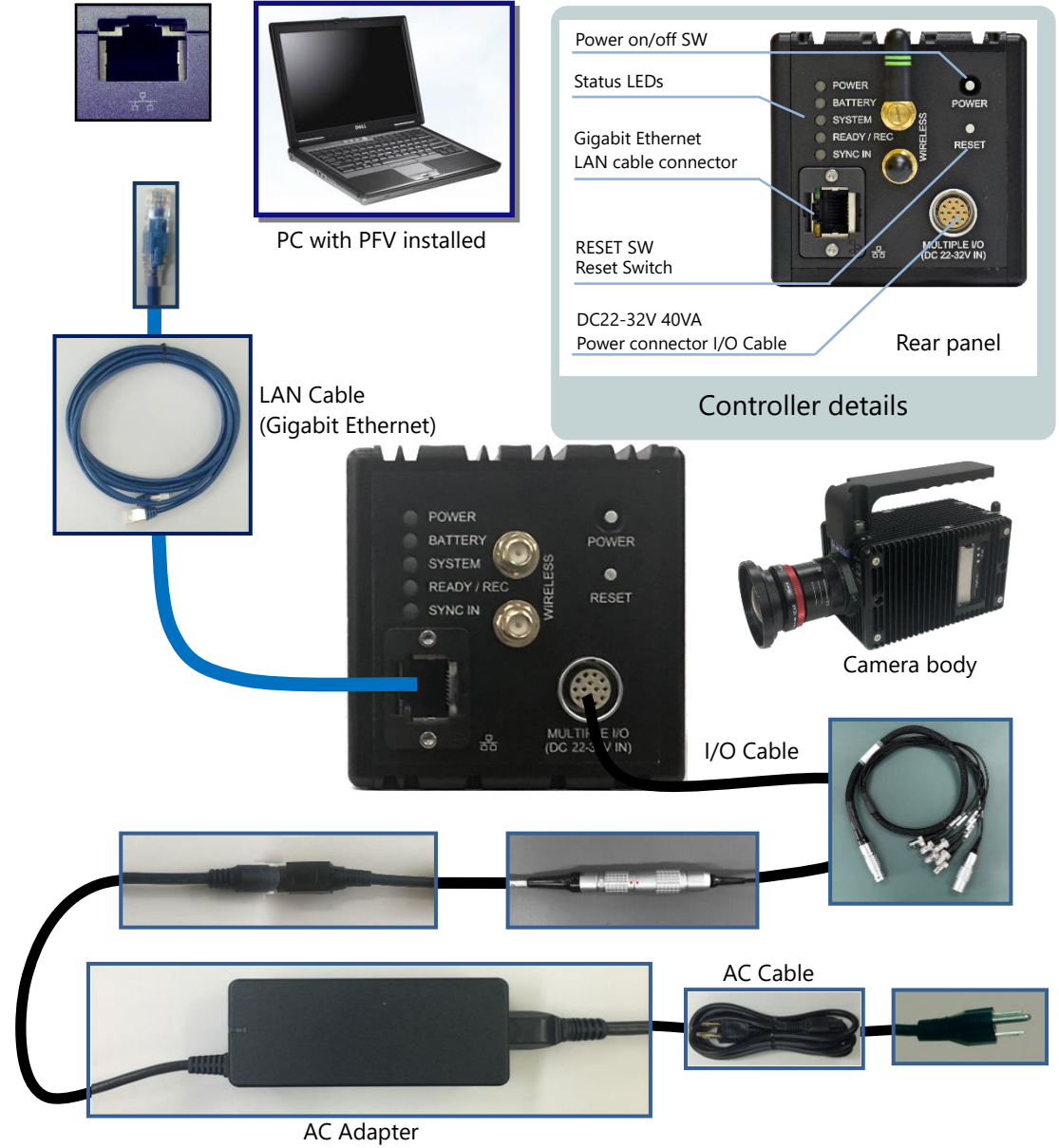DC Cable

Camera body

AC Adapter

AC Cable

CAUTION

- The camera supports 1000BASE-T (1GbE) and 10GBASE-T (10GbE).
- Depending on the environment, 10GbE connection may not be stable. Check the operation in advance or contact Photron for support.
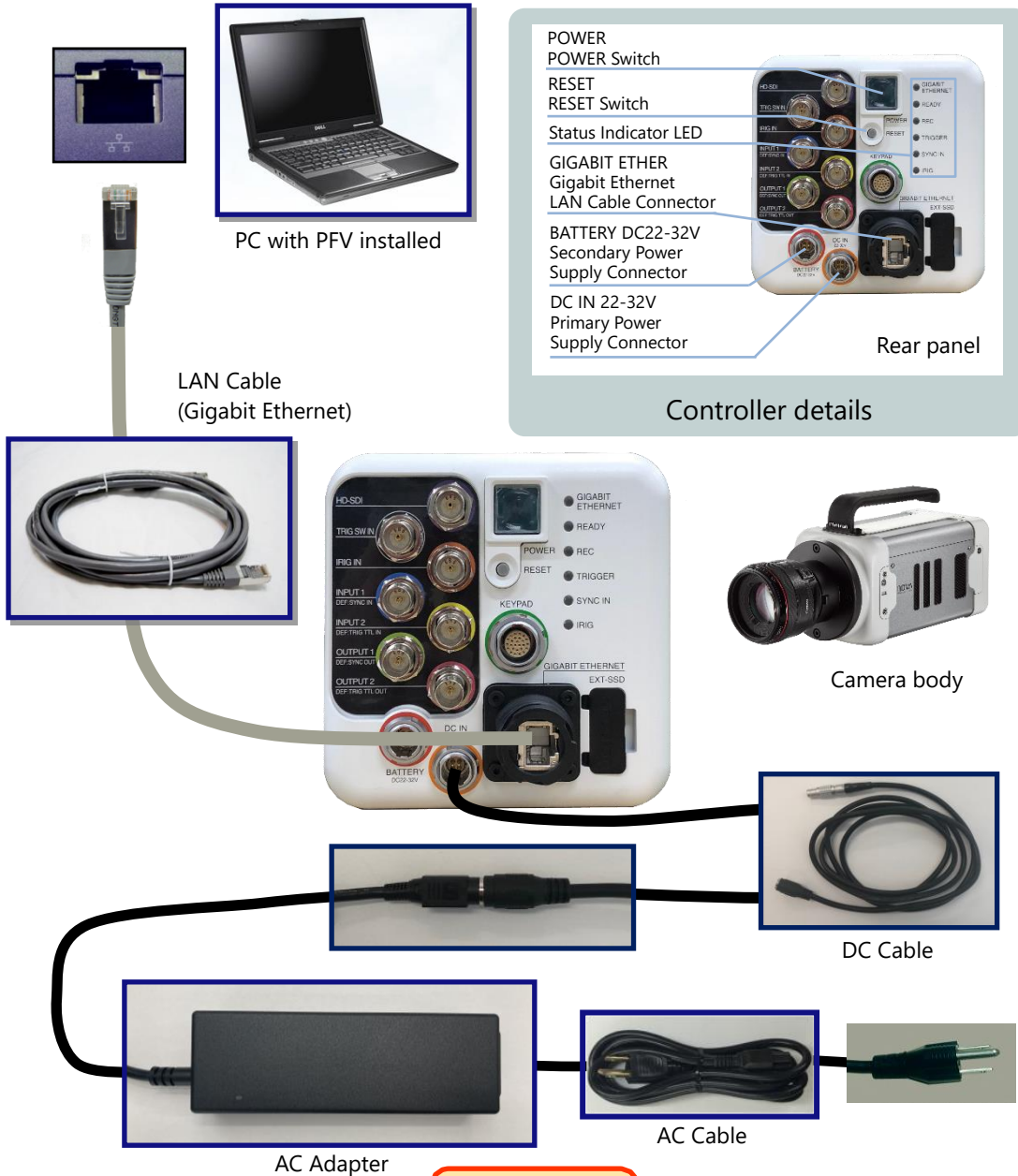
Preparing and Connecting System Components

Standalone Type (Mini CX)

PC with PFV installed

Controller details

Power on/off SW

Status LEDs

Gigabit Ethernet
LAN cable connector

RESET SW
Reset Switch

DC22-32V 40VA
Power connector I/O Cable

POWER
BATTERY
SYSTEM
READY / REC
SYNC IN

WIRELESS

POWER

RESET

MULTIPLE I/O
(DC 22-32V IN)

Rear panel

LAN Cable
(Gigabit Ethernet)

POWER
BATTERY
SYSTEM
READY / REC
SYNC IN

WIRELESS

POWER

RESET

MULTIPLE I/O
(DC 22-32V IN)

Camera body

I/O Cable

AC Cable

AC Adapter

CAUTION

- The camera supports only 1000BASE-T (1GbE).

Standalone Type (Nova S, R series)

PC with PFV installed

Controller details

POWER
POWER Switch
RESET
RESET Switch
Status Indicator LED
GIGABIT ETHER
Gigabit Ethernet
LAN Cable Connector
BATTERY DC22-32V
Secondary Power
Supply Connector
DC IN 22-32V
Primary Power
Supply Connector

Rear panel

LAN Cable
(Gigabit Ethernet)

Camera body

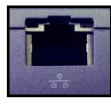DC Cable

AC Adapter

AC Cable

CAUTION

- The camera supports 1000BASE-T (1GbE) and 10GBASE-T (10GbE).
- Depending on the environment, 10GbE connection may not be stable. Check the operation in advance or contact Photron for support.
- For Nova R3 / R5, the positions of the power connector (DC IN) and battery connector (BATTERY) are reversed. For details, refer to the hardware manual.
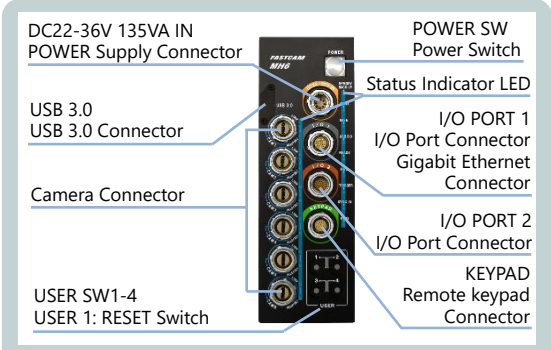
Separate Head Type (MH6)

PC with PFV installed

LAN Cable
(Gigabit Ethernet)

RJ45 Coupler

I/O1 Cable

Main Unit details

DC22-36V 135VA IN
POWER Supply Connector

USB 3.0
USB 3.0 Connector

Camera Connector

USER SW1-4
USER 1: RESET Switch

POWER SW
Power Switch

Status Indicator LED

I/O PORT 1
I/O Port Connector
Gigabit Ethernet
Connector

I/O PORT 2
I/O Port Connector

KEYPAD
Remote keypad
Connector

Main Unit

Camera cable

Relay Box

ST Camera head

Camera head

DC Cable

AC Adapter

AC Cable

CAUTION

- The camera supports only 1000BASE-T (1GbE).

PFV Installation

1. Download the latest version of PFV from the Photron official website.

2. Unzip the downloaded Zip file and double click the "PFV4_x64.exe" file in the "PFV Setup64" folder. The installer starts.

3. The license agreement and the install location are displayed.
Proceed with the installation by clicking the [Next] or [Install] button.
Check on "Install eBus Runtime in this process" when using Mini CX with PFV.
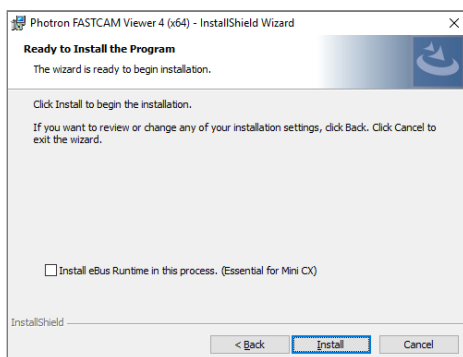
4. When the PFV installation is complete, the following message appears.
If you click the [Yes] button, "PC network settings" window appears.
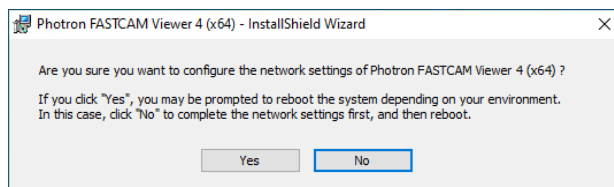
5. When the PFV installation is complete, the "PFV4" shortcut icon appears on your desktop.
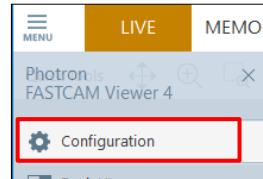

CAUTION ✍

- The latest PFV version is compatible with 64-bit versions of Windows10 and Windows11.
- Photron recommends using the Pro, Enterprise, or Education editions.

Preparing and Connecting System Components

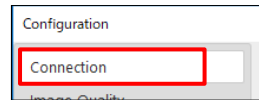## Network Setup for PC

IP Address and Firewall Setup

1. Move the cursor to "MENU" on the upper left of the screen.
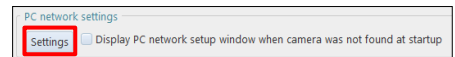
2. Click [Configuration] in the menu.

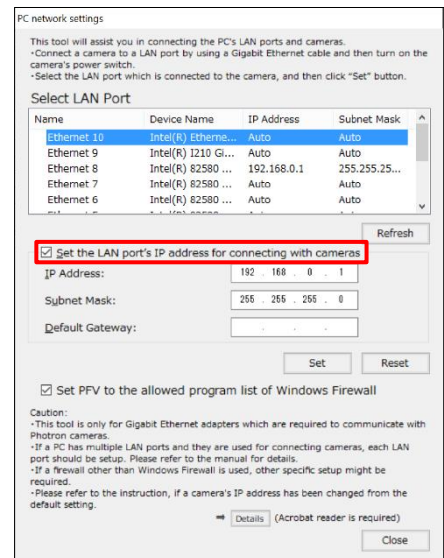3. Click [Connection] on the left side of the "Configuration" window.

4. "Connection" is opened.
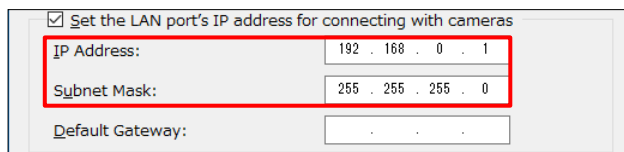   Click the [Settings] button in the "PC network settings".

5. "PC network settings" window is opened.
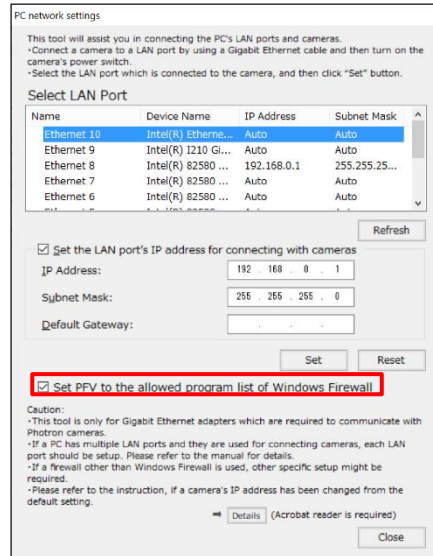   Check on "Set the LAN port's IP address for connecting with cameras".

6. Input [**192.168.0.1**] in the IP address input box. And input [**255.255.255.0**] in the Subnet mask box and click the [Set] button.
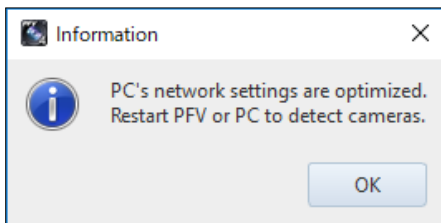
Next, change the firewall settings.

7. Check on "Set PFV to the allowed program list of Windows Firewall".

8. Click the [Close] button.
"PC's network settings are optimized. Restart PFV or PC to detect cameras." is displayed.
Click the [OK] button and restart the PFV or reboot the PC.

SUPPLEMENT 🖎

・ The communication with the camera may be improved by configuring the power settings of your PC and the Ethernet adapter.
For details, refer to "GigabitEther_Connections_Manual" in the downloaded data from the website.

Jumbo Frame Setup

The download speed may become fast if the Jumbo frame setting is changed. The setting procedures are as follows.

1. Press the [Windows] key + [R] key on the keyboard.
Input "ncpa.cpl" on the window displayed and click the [OK] button.

2. "Network Connections" window is displayed.
Right click [Local Area Connection] or [Ethernet] used for the camera connection and select [Property].

3. "Ethernet Properties" window is displayed.
Click the [Configure...] button.

4. "Property" window according to the network device is opened.
Find "Jumbo Frame" in "Advanced" tab and change the setting.
In this time, depending on the network device;

- The layout of the screen is different.
- The setting value is different like as 9014KB.
- There is no Jumbo Frame.

Be aware for above matters.

MEMO
_____

Preparing and Connecting System Components

Starting and Setting Camera
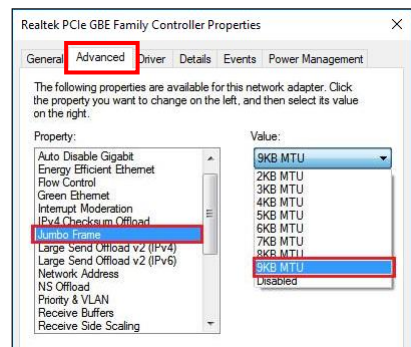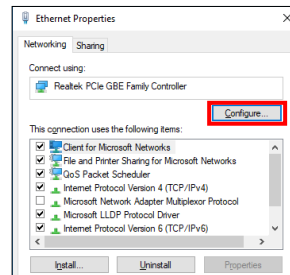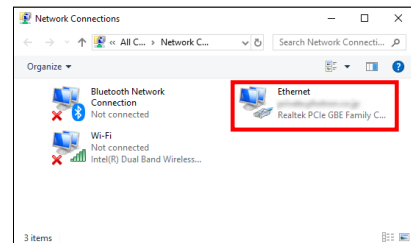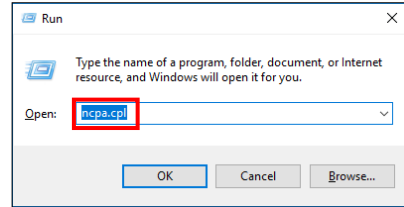
Starting Camera and PFV

1. Switch on camera system (Power switch).

2. Switch on PC.

3. See if the below status LED's have lighted.

- [POWER] LED (Green)
- [IF LINK/TRANS] LED (Red), [GbE] LED (Red), or [GIGABIT ETHERNET] LED (Red)

4. Double click ![PFV icon] icon on desktop.

PFV starts up and live image is displayed.

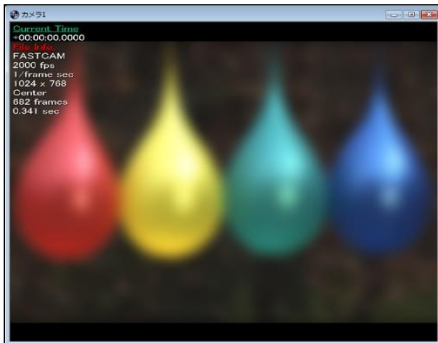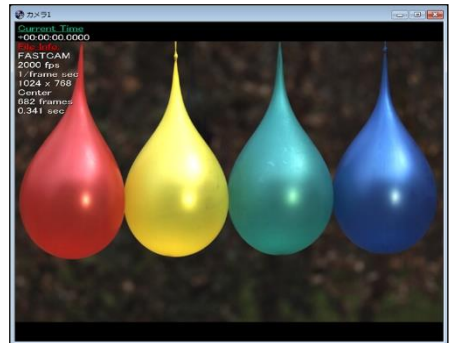**View window panel**
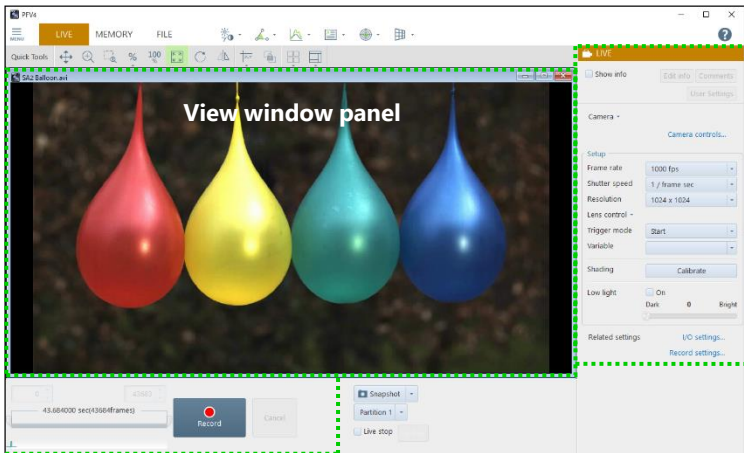
Function panel

Recording/Playback panel

If Live Image Is Out of Focus

Turn a focus ring (near the object) CW or CCW to readjust focus.
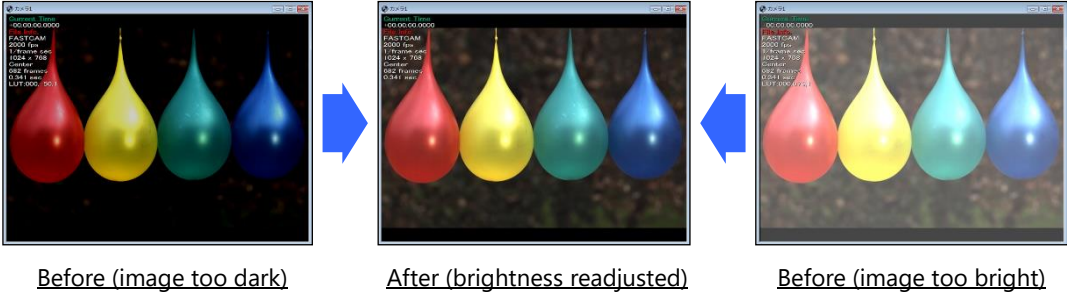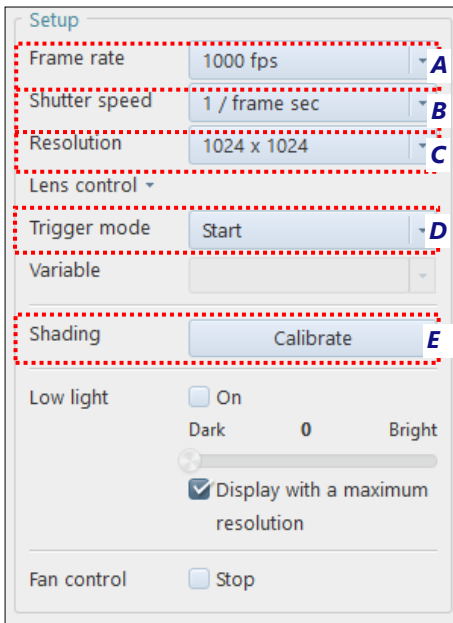

Before (out of focus)

After (in focus)

If Live Image Is Too Dark or Too Bright

Turn an iris ring (near lens mount) CW or CCW to readjust image brightness.

Before (image too dark)

After (brightness readjusted)

Before (image too bright)

Setting Recording Conditions

Click each of

A [Frame rate],

B [Shutter speed],

C [Resolution], and

**D** [Trigger mode] and select recording conditions in relevant menu.

E Execute [Shading] after setting the above recording conditions. Or execute [Shading] right before recording to shoot with best image quality.

SUPPLEMENT ✍

· Menu items differ from model to model.
  For details, refer to the hardware manual for each product (in the downloaded [Doc] – [English] folder).
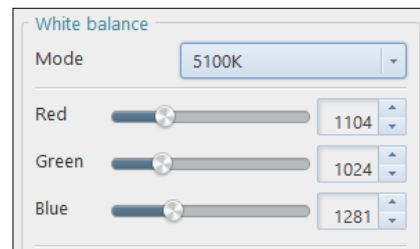
Setting Image Quality

Color temperature needs to be set for a color camera. Set it from the tool menu - [Adjustment] - [Color Correction].
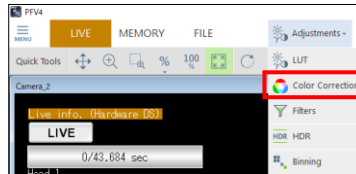
Color Temperature

1. Select the mode from the function panel located on the left side of the screen.
   5100K: Appropriate for sunlight, a metal halide or a white light of LED.
   USER: Changeable to an arbitrary value.

Auto White Balance

The color temperature is automatically adjusted by specifying the white part in an image.

1. Click the [Start sampling] button.
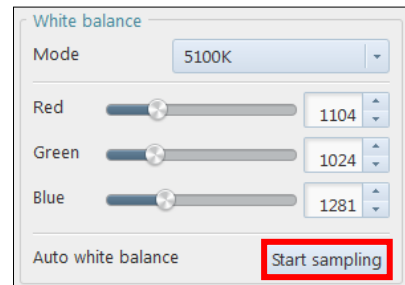
2. When a frame of dotted line is displayed in the window, drag it or press the [Shift]+[Arrow] keys to adjust the size, and press the [Arrow] key to adjust the placement position.
   Do not select a too bright white part but a gray part.

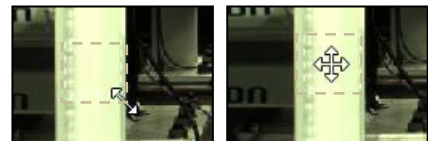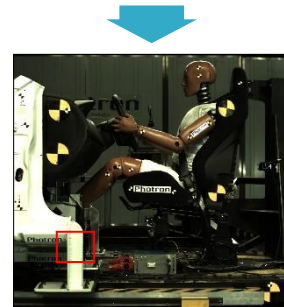**3.** After deciding the position and the area, click the [Calibrate] button to execute the adjustment.

White balance

Mode	USER
Red	1024
Green	1024
Blue	1024
Auto white balance	Calibrate
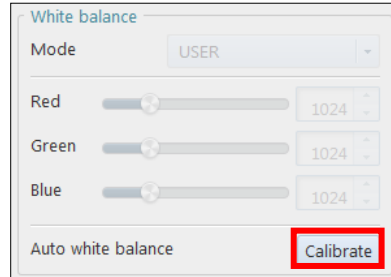
4. The parameters are displayed automatically.

White balance

Mode	USER
Red	1025
Green	1024
Blue	1038
Auto white balance	Start sampling
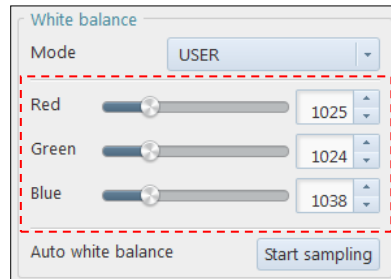
Before White Balance

After White Balance

Recording

Recording in START Mode

1. Click the [Record] button.
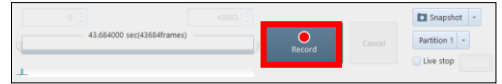
2. Click the [Ready] button.
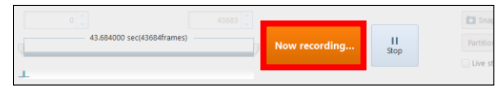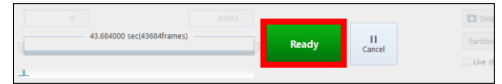
[START] Mode

In START mode, camera starts recording when a trigger is input (or REC button is pressed).

Recording continues until the memory is full, and automatically stops recording.

This mode is useful when you know for sure when an anticipated event will occur.

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e.g. With a camera that can record 2 seconds (2,000 frames)

It records the high-speed image for 2 seconds right after clicking the [Ready] button.

↓ Click   ↓ Click

Waiting a trigger   Recording

Records 2,000 frames when the frame rate is 1,000 frames/second.
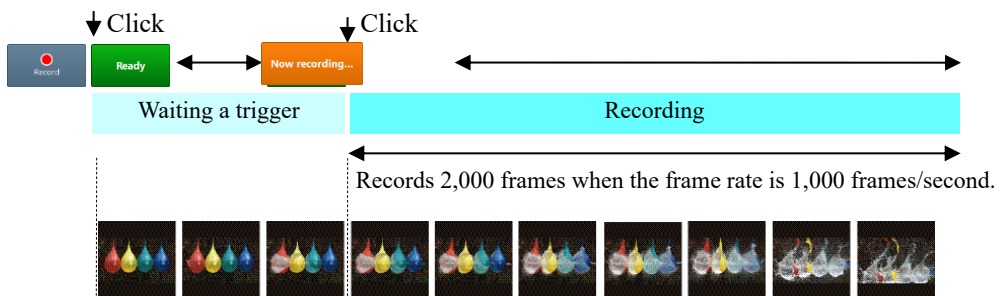
Recording in END Mode

1. Click the [Record] button.
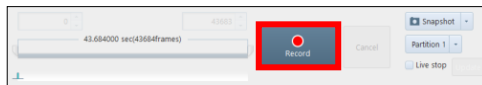
2. Click the [Ready] button.

[END] Mode

END mode records the images of target event right before the trigger is input.

This mode is useful when it is hard to know when your target event will take place.

Recording continues up to the maximum number of frames (memory capacity of the camera).

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e.g. With a camera that can record 2 seconds (2,000 frames)

After clicking the [Record] button, the recording starts immediately, and it continues until the memory capacity of the camera for 2seconds is full.

After clicking the [Ready] button, it ends and turns to the MEMORY mode.

Records 2,000 frames when the frame rate is 1,000 frames/second.
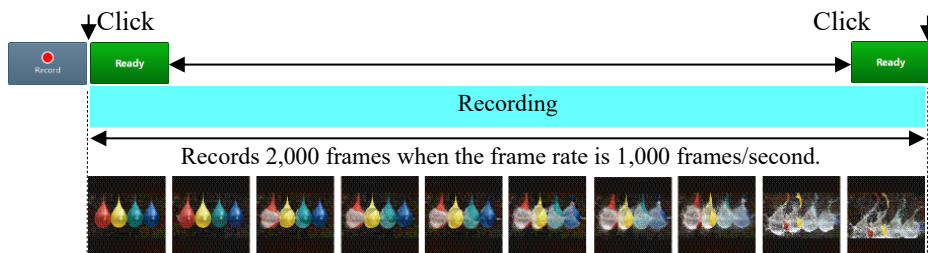
Using External Triggers

SW IN and TTL IN

These products support a start and stop of recording triggered by external signals.

There are two types of trigger input terminals. Details are explained here, with two typical camera systems as examples.

IO Port
(I/O cable)

INPUT2
(DEF: TRIG TTL IN)

TRIG SW IN

SA-Z

Mini AX

On SA-Z, connect the I/O cable to the camera.

On Mini AX, the connectors are equipped on the camera.

Each feature is described below.

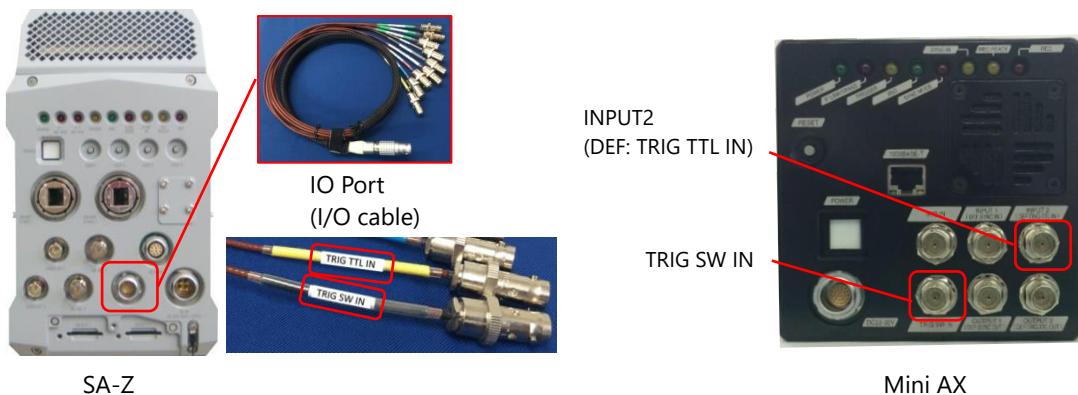| 1	TRIG SW IN (gray)	Advantages	・ Open collector output is supported. ・ Diverting the cable does not affect the trigger signal.
		Disadvantages	Compared to TTL input, relatively a longer delay of approx. 26 μsec occurs.
2	TRIG TTL IN (yellow), INPUT 2 (DEF: TRIG TTL IN)	Advantages	・ The industry standard of TTL 5V is supported, and up to +12V can be input. ・ Compared to TRIG SW IN, the delay is much shorter. (approx. 0.1 μsec) ・ Shorter pulse signal than SW IN is supported.
		Disadvantages	Trigger signal is attenuated by diverting the cable, which may result in abnormal trigger input.

Connect the BNC cable as shown in the pictures.

How to Use Start Trigger

Settings of the start trigger mode when the TTL signal is used are explained here.

1. Using the BNC cable, send the TTL signal generated by an external device to TRIG TTL IN connector of the camera.

Mini AX: "INPUT2" connector
SA-Z: "TRIG TTL IN" connector (yellow)

If the external device does not have a BNC

Connector, this kind of BNC-2 cable is useful.

Connection is shown below.

Test equipment   BNC cable   TTL IN
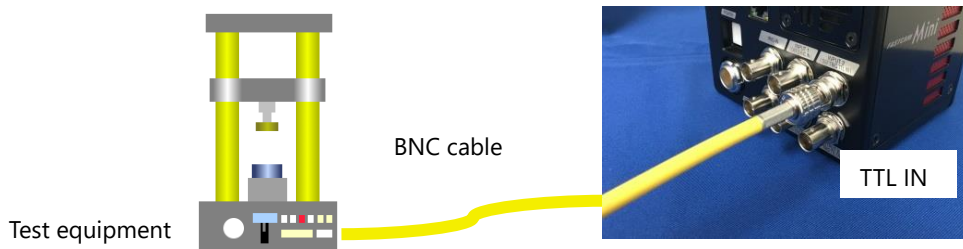
2. Click the [Record] button on PFV, and let the camera wait for "Trigger In".
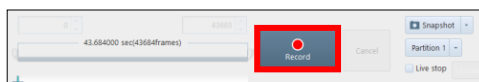
3. Start the test equipment and output the TTL signal. If the camera starts recording, it is successful. The time that the signal was input is the trigger point.
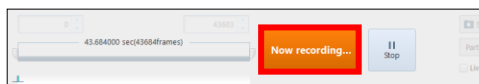
The time that the signal was input is the trigger point.
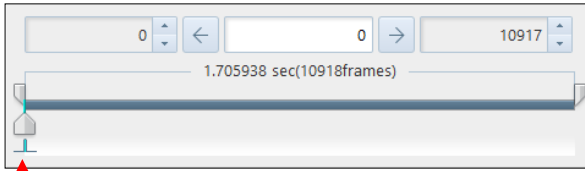
Trigger point (start trigger)
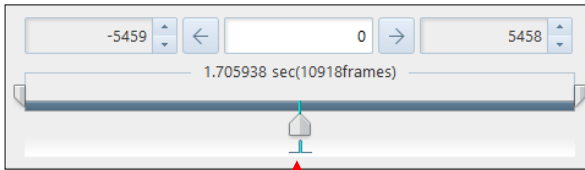
Trigger point ⬆ (center trigger)

How to Use Center, End, Manual Trigger Modes

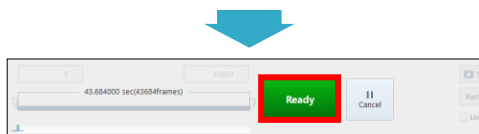The settings of the other trigger modes are explained here.

The procedures 1 to 3 of "How to Use Start Trigger" are the same. The procedures thereafter are described here.

1. Up to [Ready] are the same procedures.
Click the [Record] button.

2. Let the status be "Ready". Start the test equipment and output the TTL signal.

3. In case of Center and manual triggers, the status will become "Now recording", and the rest are recorded.
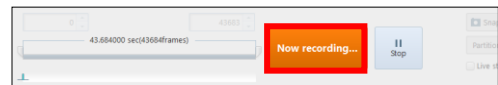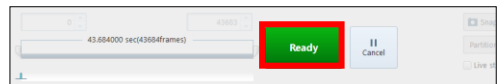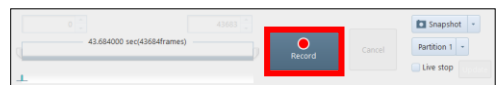
Other Cautions for the Use of Triggers

Beware of the following cautions.

1. Inputting over-voltage

The protection circuit is equipped, but it will be broken if over-voltage is input.

TRIG SW IN supports 0V to +5V, and TRIG TTL IN supports 0V to +12V.

2. How to divert the cable

In case of diverting the cable to input signals to camera or other equipment, the signal level may be lowered depending on how to divert the cable.

In case of TRIG SW IN: Divert the cable with a T-connector.

Master Camera

Slave Camera
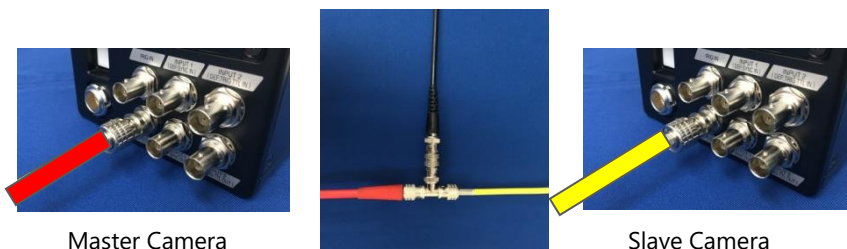
In case of TRIG TTL IN: After inputting the signal to Camera 1, output the signal from TRIG TTL OUT terminal of Camera 1 to another camera or device.

Test equipment

TRIG TTL IN (INPUT2)

TRIG TTL IN (INPUT2)

TRIG TTL OUT (OUTPUT2)

Master Camera

Slave Camera
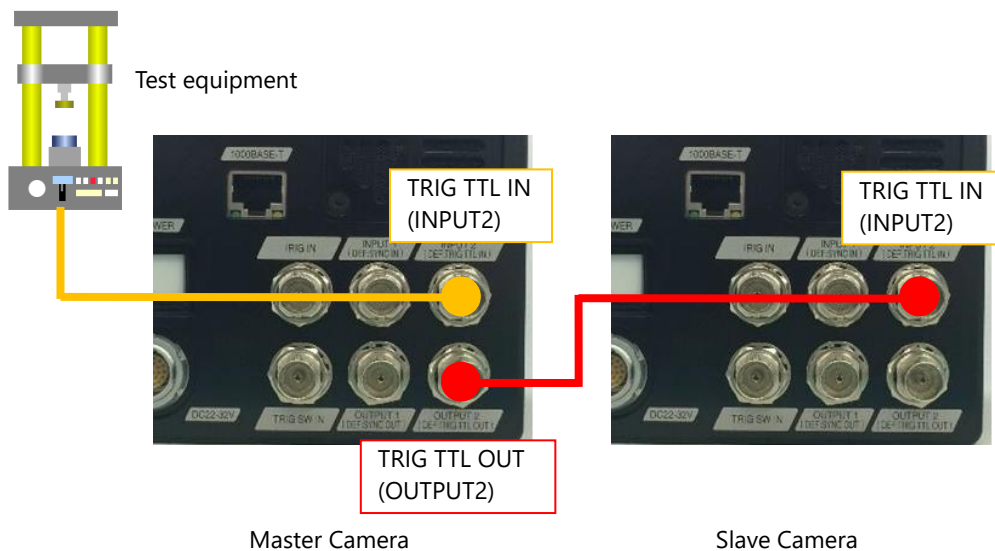
Playing Recorded Images

Use the playback control panel to play recorded images.
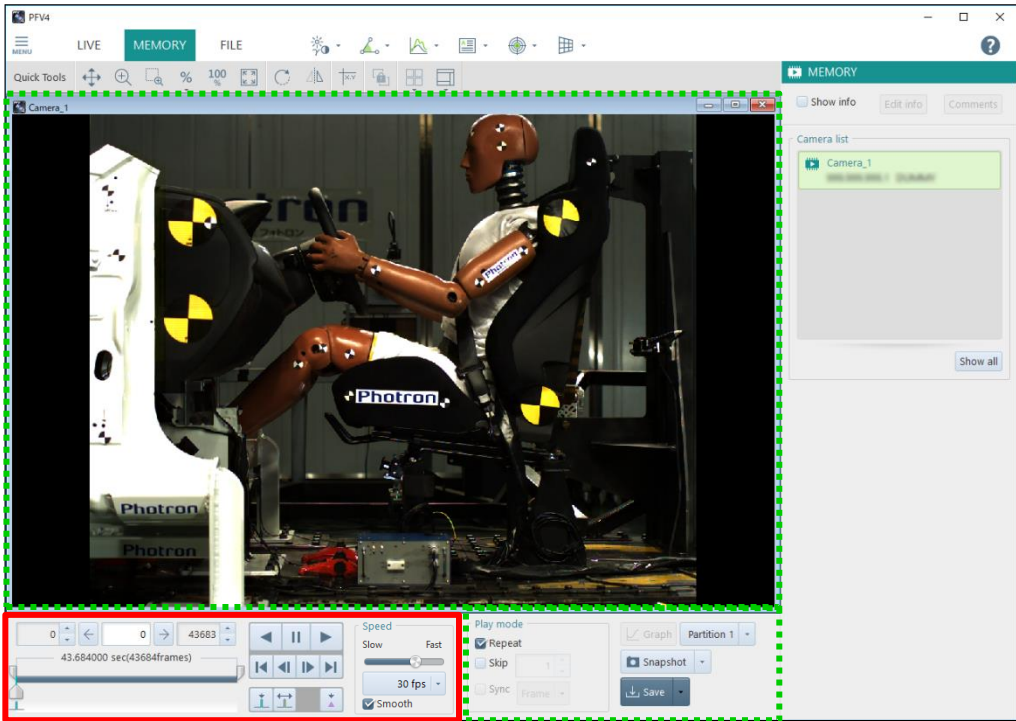
- At the end of a recording, the triggered frame is displayed in the view window.
- Setting of display on the control panel automatically switches from [LIVE] to [MEMORY].

Playback Control Panel (lower portion)

Jog reverse play

Reverse play   Stop   Play

Jog forward play

Playback speed slider bar

Repeat Playback

Number of frames to skip

Go to event ON/OFF

Go to triggered frame

Go to event

Go to first frame

Go to last frame

Show/hide the "Playback range expansion slider"

Synchronized playback

Smooth
Plays back all the frames without any drop frame.

Synchronization mode
Choose frame sync or time sync.

Switch of mode
Choose skip time (msec) or skip frames (frame).

Setting a Range of Frames to Play (or to save)

Specify first and last frames on control panel (upper portion)

◆ Playback Control Panel (upper portion)

A Start frame display/Input box

Specify first frame by entering frame number.

C Last frame display/input box

Specify last frame by entering frame number.

1000frames

B Knob to specify first frame

Drag to specify first frame.

D Knob to specify last frame

Drag to specify last frame.

Range of frames to be played or saved

First frame   Recorded images   Last frame
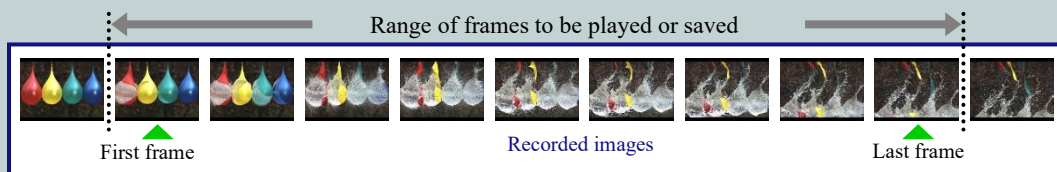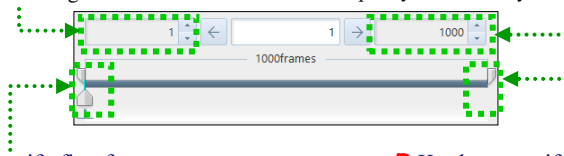
◆ Specifying first frame (**A** or **B**)
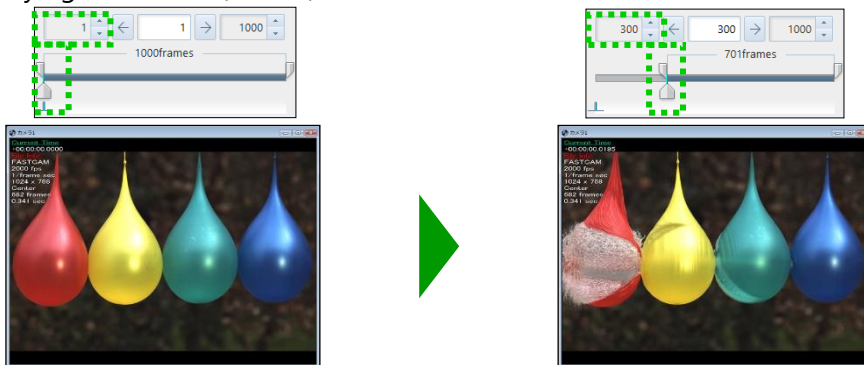
◆ Specifying last frame (*C* or *D*)
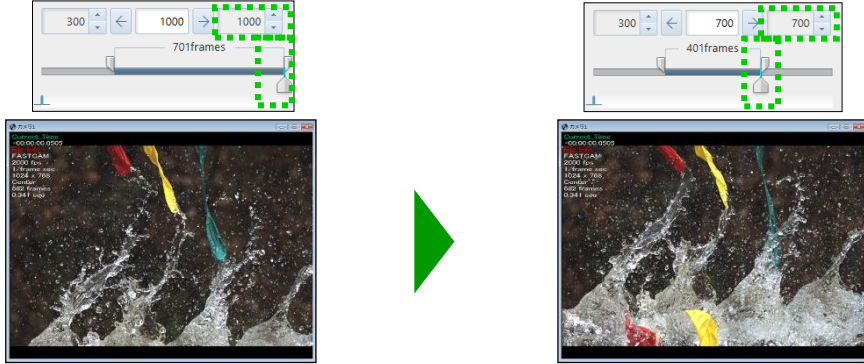
How to Use the Playback Range Expansion Slider

When the start and end frames are close to each other during range-specified playback, use the "Playback Range Expansion Slider" to control the playback.
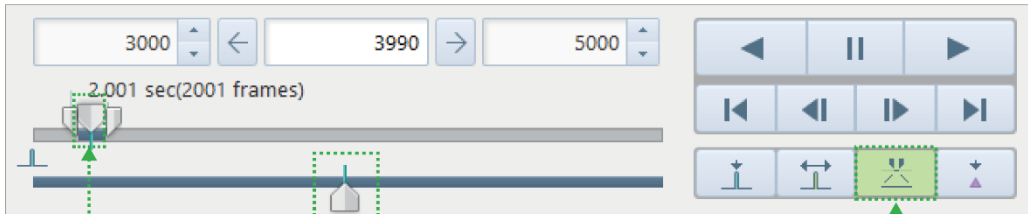
Current frame cursor

Drag to move the cursor. The "Playback slider bar" and the "Playback range expansion slider" move in tandem.

Show/hide playback range expansion slider

Click to show/hide the "Playback range expansion slider" .

5. Click the [▼] button to select [MRAW],
and click the [Save] button.
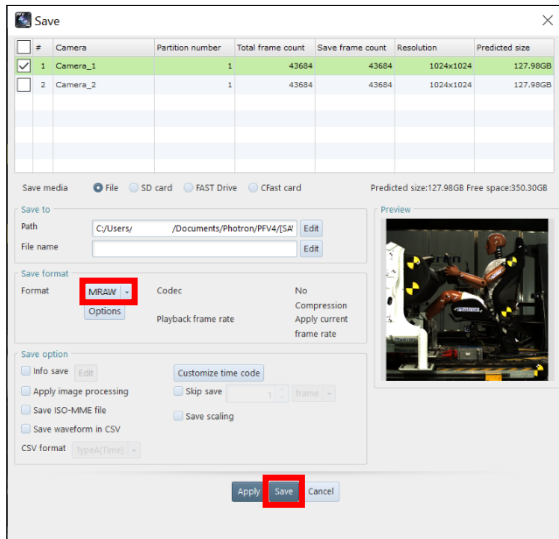
CAUTION ✐

CIHX files formed at saving MRAW,
RAWW file contain various information,
which is needed for playing movie
images. NEVER delete such CIHX files.

Because image data is usually big, it takes much time to save.

Folder to Save Image Files in

Example: When saving image data in MRAW format in default setting with [TEST] as its file name, a folder [**TEST_C001H001S0001**] is made in [C:\Users\<user name>\Documents\Photron\PFV4] (may be changed as needed), and an image file [TEST_C001H001S0001.mraw] and a CIHX file [TEST_C001H001S0001.cihx] are saved in the folder.

Hierarchical structure in Document

Photron

PFV4

TEST_C001H001S0001

TEST_C001H001S0001.cihx

TEST_C001H001S0001.mraw
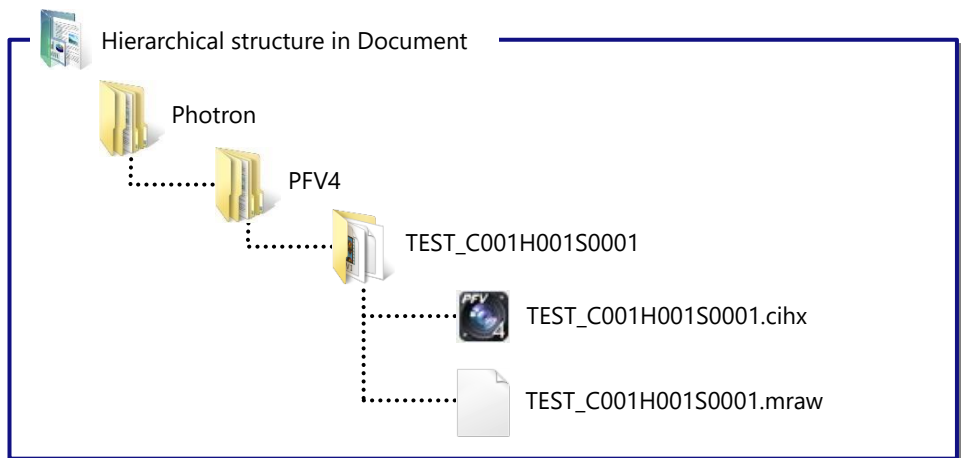
Playing Saved Image Data

1. Click [FILE] mode tab of the mode switching tab on the upper left of the screen.

2. Click the [Open] button displayed on the right side of the screen.
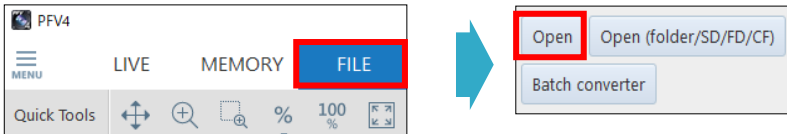
3. Select a CIHX file and click the [Open] button.

<div align="center">
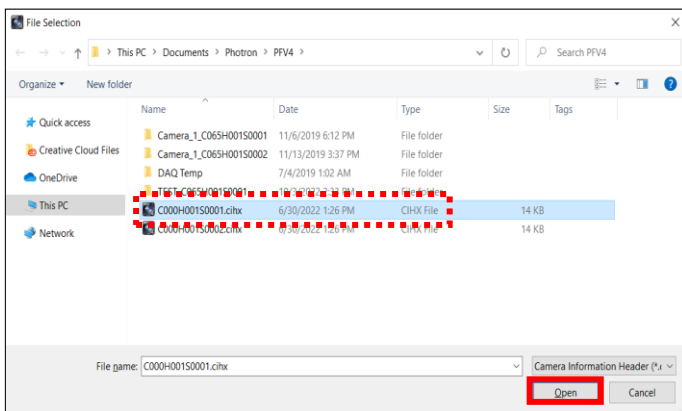
SUPPLEMENT ✍

</div>

・ If a file other than CIHX is selected, no view window information (various information related to the camera such as frame rate information) is displayed normally in the upper left part of the view window.

4. The data is displayed.

Click the [Play] button and the data is played.

Product Specifications

Product Name	FASTCAM Mini UX50/100 FASTCAM Mini WX50/100 FASTCAM Mini AX50/100/200	
Environment Conditions	Storage Temperature	-20°C to 60°C (No Condensation)
	Storage Humidity	85% or less (No Condensation)
	Operating Temperature	0 to 40°C (No Condensation)
	Operating Humidity	80% or less (No Condensation)
DC Power Supply	Power Voltage	22V to 32V
	Power Consumption — UX	40VA
	Power Consumption — AX/WX	55VA

Product Name	FASTCAM Mini R3 / R5	
Environment Conditions	Storage Temperature	-20°C to 60°C (No Condensation)
	Storage Humidity	85% or less (No Condensation)
	Operating Temperature	0 to 40°C (No Condensation)
	Operating Humidity	80% or less (No Condensation)
DC Power Supply	Power Voltage	22V to 32V
	Power Consumption	70VA

Product Name	FASTCAM Mini CX100	
Environment Conditions	Storage Temperature	-20°C to 60°C (No Condensation)
	Storage Humidity	85% or less (No Condensation)
	Operating Temperature	0 to 40°C (No Condensation)
	Operating Humidity	85% or less (No Condensation)
DC Power Supply	Power Voltage	22V to 32V
	Power Consumption	40VA

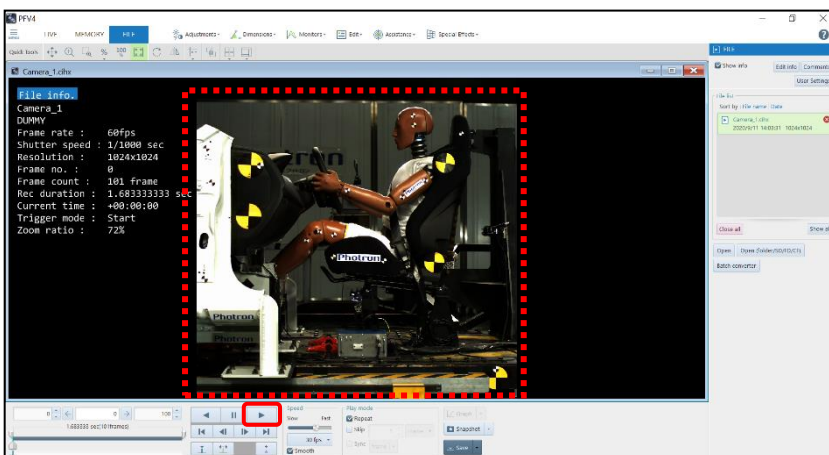| Product Name	FASTCAM Nova series	
Environment Conditions	Storage Temperature	-20°C to 60°C (No Condensation)
	Storage Humidity	85% or less (No Condensation)
	Operating Temperature — S6 / S9 / S12 / S16 R2 / R3 /R5	-10 to 45°C (No Condensation) * When connecting Remote Keypad with LCD -10 to 40°C (No Condensation)
	Operating Temperature — S20	-10 to 40°C (No Condensation)
	Operating Humidity	80% or less (No Condensation)
DC Power Supply	Power Voltage	22V to 32V
	Power Consumption — S6 / S9 / S12 / S16 / S20	150VA
	Power Consumption — R2 / R3 / R5	120VA

Product Name	FASTCAM SA-Z	
Environment Conditions	Storage Temperature	-20°C to 60°C (No Condensation)
	Storage Humidity	85% or less (No Condensation)
	Operating Temperature	0 to 45°C (No Condensation)
	Operating Humidity	80% or less (No Condensation)
DC Power Supply	Power Voltage	20V to 36V
	Power Consumption	230VA

Product Name	FASTCAM MH6-10K	
Environment Conditions	Storage Temperature	-20°C to 60°C (No Condensation)
	Storage Humidity	85% or less (No Condensation)
	Operating Temperature	0 to 40°C (No Condensation)
	Operating Humidity	85% or less (No Condensation)
DC Power Supply	Power Voltage	22V to 36V
	Power Consumption	110VA

Product Name	FASTCAM SA-X2/SA-X2 RV	
Environment Conditions	Storage Temperature	-20°C to 60°C (No Condensation)
	Storage Humidity	85% or less (No Condensation)
	Operating Temperature	0 to 40°C (No Condensation) RV: 0 to 45°C (No Condensation)
	Operating Humidity	80% or less (No Condensation)
DC Power Supply	Power Voltage	18V to 36V
	Power Consumption	210VA

Product Name	FASTCAM Multi	
Environment Conditions	Storage Temperature	-20°C to 60°C (No Condensation)
	Storage Humidity	85% or less (No Condensation)
	Operating Temperature	0 to 45°C (No Condensation)
	Operating Humidity	80% or less (No Condensation)
DC Power Supply	Power Voltage	20V to 34V
	Power Consumption	180VA

Product Name	FASTCCAM SA1.1/SA1.1RV FASTCAM SA4/SA4RV FASTCAM SA5/SA5RV	
Environment Conditions	Storage Temperature	-20°C to 60°C (No Condensation)
	Storage Humidity	85% or less (No Condensation)
	Operating Temperature	0 to 40°C (No Condensation) RV: 0 to 45°C (No Condensation)
	Operating Humidity	85% or less (No Condensation)
DC Power Supply	Power Voltage	20V to 36V
	Power Consumption	130VA

Product Specifications

Product Name		FASTCAM SA2/SA2RV FASTCAM SA6/SA6RV
Environment Conditions	Storage Temperature	-20°C to 60°C (No Condensation)
	Storage Humidity	85% or less (No Condensation)
	Operating Temperature	0 to 40°C (No Condensation) RV: 0 to 45°C (No Condensation)
	Operating Humidity	85% or less (No Condensation)
DC Power Supply	Power Voltage	18V to 36V
	Power Consumption	100VA

Product Name		FASTCAM MH4-10K
Environment Conditions	Storage Temperature	-20°C to 60°C (No Condensation)
	Storage Humidity	85% or less (No Condensation)
	Operating Temperature	0 to 40°C (No Condensation)
	Operating Humidity	85% or less (No Condensation)
DC Power Supply	Power Voltage	22V to 32V
	Power Consumption	65VA

Product Name		FASTCAM MC2.1
Environment Conditions	Storage Temperature	-20°C to 60°C (No Condensation)
	Storage Humidity	85% or less (No Condensation)
	Operating Temperature	0 to 40°C (No Condensation)
	Operating Humidity	85% or less (No Condensation)
DC Power Supply	Power Voltage	18V to 36V
	Power Consumption	45VA

FAQ and Troubleshooting

1. **The camera image is not displayed in the PFV.**

   When the IF LINK/TRANS LED, GbE LED, or GIGABIT ETHERNET LED is not turned on

   ◆ **The network cable may be disconnected or the PC LAN terminal may be broken.**
   ◆ **Initialize the camera's IP address. Try the following operation for your model.**
   For details, refer to the hardware manual of your camera.

Camera	IP address Reset Operation
SA series, MH6	Press and hold USER1 switch for "10 seconds".
Mini AX/WX/UX, Nova series, Mini R series	Press and hold RESET switch until all the LEDs light up, turn off, blink once, and lights up. Reboot the camera.
Mini CX	Press RESET switch once.

   When the IF LINK/TRANS LED, GbE LED, or GIGABIT ETHERNET LED is turned on

   ◆ **The IP address or firewall may be set incorrectly on the PC.**
   Use the command prompt to check the communications.

   1. Press the [Win] key and [R] key, enter "cmd" and click the [OK] button to open the Command Prompt.

   2. Enter "ping 192.168.0.10" in the command prompt window and press the return key.
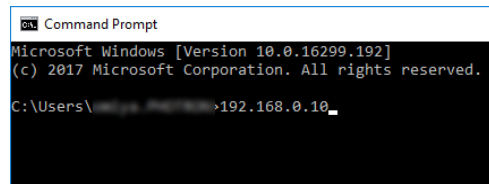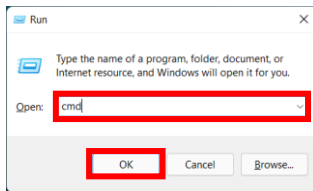
   This is the display output when the camera and the PC are properly connected. The camera and the PC can communicate.

   This is the display output when there is a communications problem. There is a high possibility that the PC settings are incorrect.

◆ **Reset the camera's IP address to the default value by the factory initialization. If you are unable to connect properly, try the following operation for your model.**
For details, refer to the hardware manual of your camera.

Camera	Factory Initialization Operation
SA series, MH6	Press and hold USER1 switch for more than "15 seconds".
Mini AX/WX/UX, Nova series, Mini R series	Press and hold RESET switch until all the LEDs light up, turn off, blink once, and light up repeatedly for "3 sets". Reboot the camera.
Mini CX	Press RESET switch for more than "4 seconds" while the camera is turned off.

2. **Is recorded data retained in the camera after the power is turned off?**

◆ **The data disappears when the camera power is turned off. Be sure to download any necessary data after recording.**

3. **The data download speed is extremely slow.**

◆ **Check the size of the downloaded data.**
In some cases, the speed may be slow due to the format of an image file sequence or the compression codec. It may also be slow due to LAN cable degradation.

4. **The camera does not respond even when the power is turned on, and the rear panel LEDs do not light up.**

◆ **Check to see if there is a problem with the power supply. If there are no problems, apologize for the inconvenience but contact Photron or your retailer.**

5. **Lines are shown in all or part of the image.**

◆ **Check to see if shading is applied.**
If that does not fix the issue, there is a possibility of an internal malfunction. We apologize for the inconvenience but contact Photron or your retailer.

6. The image hues look strange.

◆ **Turn the software pixel gain OFF.**

◆ **Adjust the color temperature. (For details, refer to the PFV Manual.)**

1. Click [Configuration] in "MENU" on the upper left of the screen.

2. Click [Image Quality].
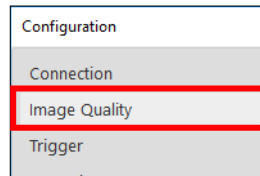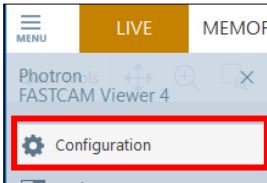
3. Uncheck the "Apply software pixel gain".
   The setting of "Software pixel gain" is displayed at the recording mode.

4. Click the adjustments' icon in the Toolbar on the upper side of the screen and click [Color Correction].
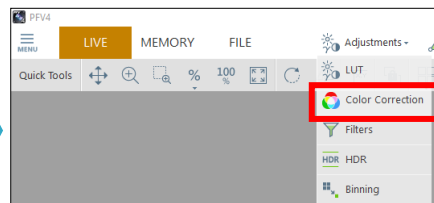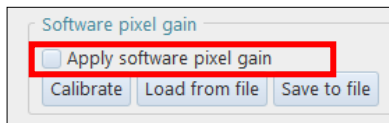
5. The color can be corrected.

7. Dot noise is appearing on the screen.

* [LUT] button is displayed on the upper right of the screen if the LUT is set. The setting can be turned on or off by clicking the button.

◆ **Execute the shading calibration.**

　• Click the [Calibrate] button on the right side of the screen.

◆ **Fit the image size to the View.**

　• Click the [Fit to screen] button in the Quick Tools on the upper side of the screen.

◆ **Turn off the "Adjustments".**

　• Click the [LUT] button on the upper right of the screen.

　If these do not fix the issue, contact Photron or your retailer.

8. I want to initialize the camera to the factory settings.

◆ **Depending on the model, it is possible to initialize from PFV4.**

To initialize from PFV4, go to "MENU" - [Configuration] - [Camera Option], put a check to [Restore factory default settings], and then click the [Apply] button.

◆ **You can initialize the camera by pressing the button on the camera. Try the following operation for your model.**

For details, refer to the hardware manual of your camera.

Camera	Factory Initialization Operation
SA series, MH6	Press and hold USER1 switch for more than "15 seconds".
Mini AX/WX/UX, Nova series, Mini R series	Press and hold RESET switch until all the LEDs light up, turn off, blink once, and light up repeatedly for "3 sets". Reboot the camera.
Mini CX	Press RESET switch for more than "4 seconds" while the camera is turned off.

If you have any other questions, are unable to resolve a problem, or are experiencing an issue not described above, apologize for the inconvenience but contact Photron or your retailer.

Contact Information

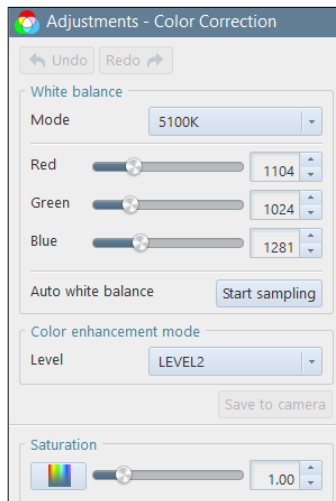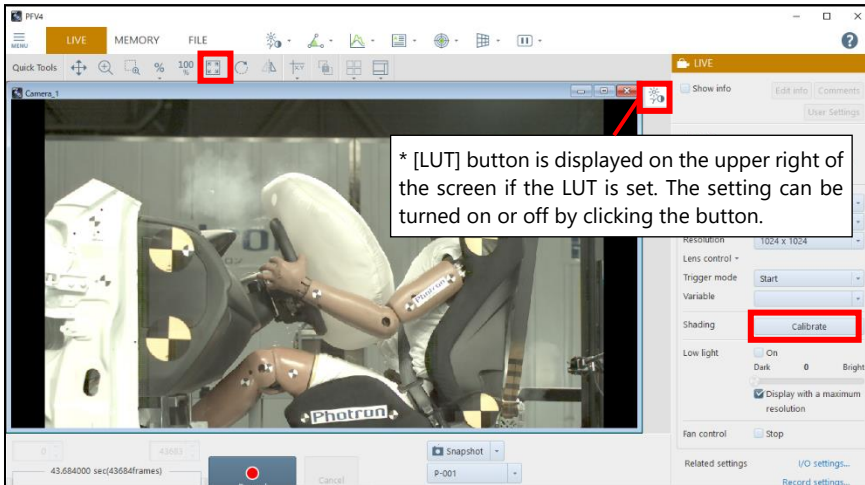For inquires related to FASTCAM series, contact Photron at the contact information listed below.

Contact Information	
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MEMO

MEMO

FASTCAM First-Step Guide

Rev. 4.17 E

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