



# User Manual

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## PIXPRO 360 VR Suite

(PC Version & Mac Version)

for

KODAK PIXPRO  
SP360/ SP360 4K/ ORBIT360 4K /4KVR360

# Before You Start

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## Declaration of Conformity

Responsible Party: JK Imaging Ltd.

Address: JK Imaging Ltd., 17239 So. Main Street, Gardena, CA 90248 USA

Company Website: [kodakpixpro.com](http://kodakpixpro.com)

## About this Manual

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- All trademarks mentioned in this manual are used for identification purposes only and are properties of their respective owners.
- This manual provides you with information on how to use the PIXPRO 360 VR Suite Software. Every effort has been made to ensure that the contents of this manual are accurate, however JK Imaging reserves the right to modify and make updates and changes as necessary.
- Throughout this manual, the following symbols are used to help you locate information quickly and easily:
  -  Indicates useful information
  -  Indicates a click
  -  Indicates a double-click
- In this manual, the images is based on the PC software for Windows system. Interfaces of Mac systems may have some differences from Windows systems. Please refer to the actual computer interface.

## Matters Needing Attention:

- Please do not use products in places that have high intensity magnetic fields, electrostatic and electric wave interference (for example near a microwave oven), which may cause interruptions or failure in receiving signals.
- Do not use in places where the Wi-Fi® connection function is restricted (airplane, medical institution, etc.). Please observe regulations and compliance in your country.
- If your computer cannot search for Wi-Fi® hotspots, please install a device or software that supports searching for Wi-Fi® hotspots.
- When using the Wi-Fi® connection, the camera and computer can only be connected one to one. Please keep the camera within 10 meters (32.8 feet) without signal shielding interference.
- If you are unable to enter Wi-Fi® Control after opening the software, please check the Windows firewall settings. Make sure that the [PIXPRO 360 VR Suite Software] has been allowed to pass through the firewall.
- This software applies only to the stitching of the videos or photos with an aspect ratio of 1:1 [Round (Dome) Mode] shot by the SP360 or SP360 4K cameras.
  - If the resolution of the video or still image is different between lenses, stitching cannot be performed. To ensure that camera shooting settings are the same, it is recommended to restore each of camera settings before shooting.
  - In order to perform correct stitching, set the EIS of the Camera to [OFF] before shooting.
  - If two SP360 or SP360 4K cameras are used for simultaneous shooting of video, optimal results can be achieved only by using the Dual Camera Mount and the selfie stick dedicated for them. For more information, please contact: [http://kodakpixpro.com/docs/specsheets/actioncam/sp360\\_4k/sp360\\_4k-bundles-specs-web.pdf](http://kodakpixpro.com/docs/specsheets/actioncam/sp360_4k/sp360_4k-bundles-specs-web.pdf)
- Your computer Operating System version needs to be Mac OS X 10.10 or higher or Windows 7 or higher.

Recommended operating environment :

	4K Video (MAC / Windows)	5.7K Video (MAC) (SP360 4K only)	5.7K Video (Windows) (SP360 4K only)
OS	Mac OS X 10.10 or higher Windows 7 or higher	Mac OS 10.13 High Sierra or higher	Windows 7 or higher
CPU	Core i7 (Skylake) or later	Core i7 (Skylake) or later	Core i7 6700 or later (End K / X)
GPU	GeForce GTX750 or higher	AMD Radeon PRO or higher	GeForce GTX750 or higher
RAM	8GB or higher	8GB or higher	8GB or higher
VRAM	2GB or higher	2GB or higher	2GB or higher

- ※ Windows DirectX 10 or later is required.
- ※ To play at 4K resolution, you need a 4K compatible monitor and video card.
- ※ To play at 5.7K resolution, you need a 5.7K compatible monitor and video card.
- ※ This camera is not guaranteed to be operational in all operating environments. Even in the recommended optional operating environments, not all 4K & 5.7K videos are necessarily editable and will playback.

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# Connecting the Camera with Your Computer

## > Downloading and Installing the Software:

Download the "PIXPRO 360 VR Suite" software installation package  from our KODAK PIXPRO official website and install it on your computer by following the prompts on the interface.

### Americas



<https://kodakpixpro.com/support/downloads/>

### Europe



<https://kodakpixpro.com/Europe/support/downloads/>

After successful installation, this icon  will appear on your desktop.

## > Establishing a Connection:

### > 1 Wi-Fi® Connections (supports: Wi-Fi® Control, Download & Playback)

1. Camera: Check SSID and password indicated on the label in the battery compartment of the camera. In the main interface of the camera, press the  button to switch to Wi-Fi® mode.
2. Computer: To enable Wi-Fi® mode, the camera will automatically search for nearby Wi-Fi® hotspots. Select the camera's SSID and input your password. When connected via Wi-Fi®, you will be able to double-click the software icon  on the desktop of your computer to open and start it.

-  When the Wi-Fi® connection password is altered using your smart device, the connected password in the computer will simultaneously change. Choose to enter a new updated password if desired.
-  If you forget the Wi-Fi® connection password, you can use the reset function on the camera to reset it to the factory default password.
-  Since there are different network names (SSID) for different types of products, please check the SSID label inside the camera's battery compartment or refer to the following instructions before connecting.  
SP360: PIXPRO-SP360\_XXXX; SP360 4K: PIXPRO-SP360-4K\_XXXX;  
ORBIT360/4KVR360: PIXPRO-ORBIT360\_XXXX /PIXPRO-4KVR360\_KXXXX
-  As the Wi-Fi® connection password for each product is different, please refer to the camera manual to learn how to check passwords.



# Operation Methods

## > Wi-Fi® Control:

As the software is activated, it will default and enter the index interface of [Playback] mode. Click the [Wi-Fi® Control] tab to switch to the [Wi-Fi® Control] interface. Once connected via Wi-Fi®, you can control the connected camera to take pictures and videos.

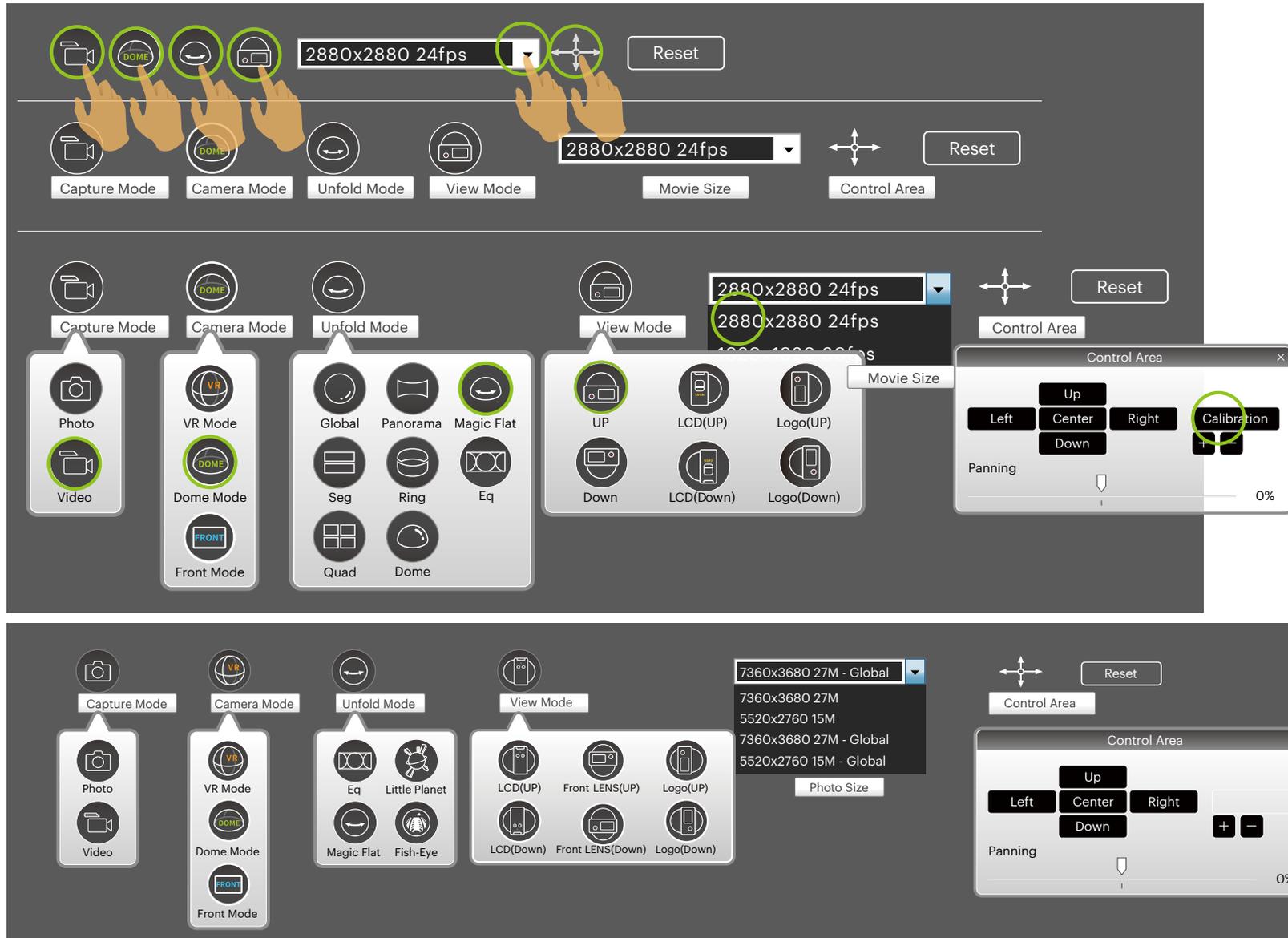
### > 1 Wi-Fi® Control Interface:



1	Capture Mode	5	Wi-Fi® Connectivity Status:	7	Merge	11	Software Version
2	Camera Mode		Wi-Fi® connection is successful	8	SNS Account	12	Number of photos that can be taken
3	Unfold Mode		Wi-Fi® connection has failed	9	Control Area	13	Recordable Video Time
4	View Mode		6	Movie Size	10	Reset	14

## > 2 Wi-Fi® Control Menu Settings:

Click the Menu icon, then click the option icon in the pull-down menu to choose your desired setting.



## Capture Mode

There are 2 options:

•  Photo: Enter shooting mode	•  Video: Enter video mode
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## Camera Mode

There are 3 options:

•  VR Mode: VR-Global 2:1 / VR-STITCH 2:1	•  Round (Dome) Mode: Round (Dome) 1:1	•  Front Mode: Front(4:3) / Front(16:9)
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This function is only supported by the camera ORBIT360/4KVR360.

## Unfold Mode

Select from several different viewing modes

There are 12 options:

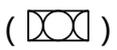
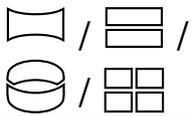
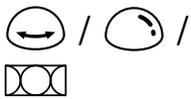
VR Mode	•  Eq (Equirectangular)	•  Magic Flat	
	•  Little Planet	•  Fish-Eye	
Round (Dome) Mode	•  Global	•  Panorama	•  Magic Flat
	•  Seg (Front/Back)	•  Ring	•  Eq (Equirectangular)
	•  Quad	•  Dome	



The files shot in 'Front Mode' are saved as square files and cannot be expanded in other unfolding modes.

## Viewing Modes:

Select the icon according to the direction that the lens, LCD or Logo of the camera is facing so the image will be displayed in the correct orientation.

VR Mode	VR-Stitch 2:1 (  )	<ul style="list-style-type: none"> <li> LCD (UP) The image will be displayed upright when the LCD is facing upward.</li> </ul>	<ul style="list-style-type: none"> <li> LCD (Down) The image will be displayed upright when the LCD is facing downward.</li> </ul>
	Others VR Mode	<ul style="list-style-type: none"> <li> Front Lens (UP) The image will be displayed upright when the Front Lens is facing upward.</li> </ul>	<ul style="list-style-type: none"> <li> Front Lens (Down) The image will be displayed upright when the Front Lens is facing downward.</li> </ul>
		<ul style="list-style-type: none"> <li> Logo(UP) The image will be displayed upright when the Logo is facing upward.</li> </ul>	<ul style="list-style-type: none"> <li> Logo(Down) The image will be displayed upright when the Logo is facing downward.</li> </ul>
Round (Dome) Mode		<ul style="list-style-type: none"> <li> UP The image will be displayed upright when the Lens is facing upward.</li> </ul>	<ul style="list-style-type: none"> <li> Down The image will be displayed upright when the Lens is facing downward.</li> </ul>
		<ul style="list-style-type: none"> <li> Logo (UP) The image will be displayed upright when the Logo is facing upward.</li> </ul>	<ul style="list-style-type: none"> <li> Logo (Down) The image will be displayed upright when the Logo is facing downward.</li> </ul>
		<ul style="list-style-type: none"> <li> LCD (UP) The image will be displayed upright when the LCD is facing upward.</li> </ul>	<ul style="list-style-type: none"> <li> LCD (Down) The image will be displayed upright when the LCD is facing downward.</li> </ul>

## Movie Size:

Setting the video resolution.

Camera \ Camera Mode	VR Mode	Round (Dome) Mode	Front Mode
SP360	N/A (Single Camera only)	<ul style="list-style-type: none"> <li>• 1440 x 1440 30fps</li> </ul>	<ul style="list-style-type: none"> <li>• 1920 x 1080 30fps</li> <li>• 1280 x 960 50fps</li> <li>• 1280 x 720 60fps</li> <li>• 848 x 480 60fps</li> </ul>
SP360 4K	N/A (Single Camera only)	<ul style="list-style-type: none"> <li>• 2880 x 2880 30fps</li> <li>• 2048 x 2048 30fps</li> <li>• 1440 x 1440 60fps</li> <li>• 1072 x 1072 60fps</li> </ul>	<ul style="list-style-type: none"> <li>• 3840 x 2160 30fps</li> <li>• 1920 x 1080 60fps</li> <li>• 1280 x 720 60fps</li> <li>• 848 x 480 60fps</li> </ul>
ORBIT360/4KVR360	<ul style="list-style-type: none"> <li>• 3840 x 1920 24fps - Global</li> <li>• 3840 x 1920 15fps</li> <li>• 1920 x 960 30fps</li> </ul>	<ul style="list-style-type: none"> <li>• 2880 x 2880 24fps</li> <li>• 1920 x 1920 30fps</li> </ul>	<ul style="list-style-type: none"> <li>• 3840 x 2160 30fps</li> <li>• 1920 x 1080 60fps</li> <li>• 1280 x 720 60fps</li> </ul>

## Photo Size:

Setting the photo resolution.

Camera \ Camera Mode	VR Mode	Round (Dome) Mode	Front Mode
SP360	N/A (Single Camera only)	<ul style="list-style-type: none"> <li>• 3200 x 3200 10M 1:1</li> </ul>	<ul style="list-style-type: none"> <li>• 2560 x 1920 5M 4:3</li> <li>• 1920 x 1080 2M 16:9</li> </ul>
SP360 4K	N/A (Single Camera only)	<ul style="list-style-type: none"> <li>• 2880 x 2880 8M 1:1</li> </ul>	<ul style="list-style-type: none"> <li>• 2304 x 1728 4M 4:3</li> <li>• 1920 x 1080 2M 16:9</li> </ul>
ORBIT360/4KVR360	<ul style="list-style-type: none"> <li>• 7360 x 3680 27M</li> <li>• 5520 x 2760 15M</li> <li>• 7360 x 3680 27M - Global</li> <li>• 5520 x 2760 15M - Global</li> </ul>	<ul style="list-style-type: none"> <li>• 3680 x 3680 13M 1:1</li> </ul>	<ul style="list-style-type: none"> <li>• 3526 x 2644 9M 4:3</li> <li>• 3840 x 2160 8M 16:9</li> </ul>

- **VR Mode**

The expansion effects and options are shown below:

(1) VR-Global 2:1 : 7360 x 3680 27M - Global, 5520 x 2760 15M - Global, 3840 x 1920 24fps - Global

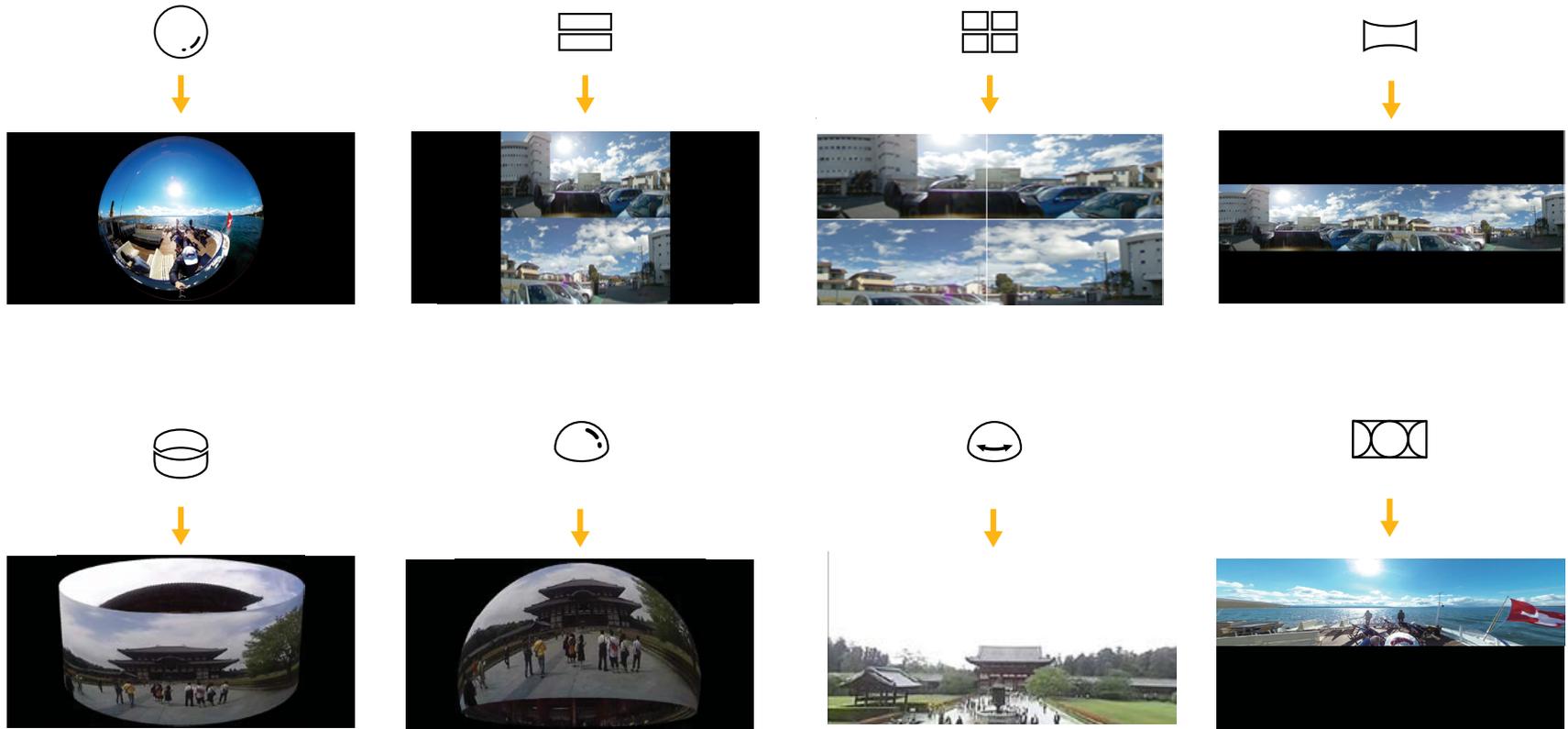


(2) VR-STITCH 2:1 : 7360 x 3680 27M, 5520 x 2760 15M, 3840 x 1920 15fps, 1920 x 960 30fps



- **Round (Dome) Mode**

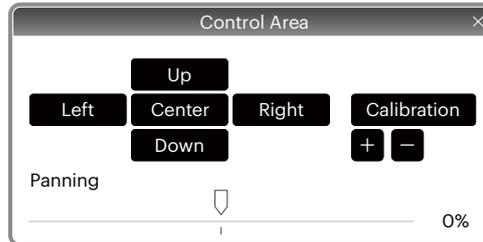
The expansion effects are shown below:



Camera	Photo Size	Movie Size
SP360	3200 x 3200 10M 1:1	1440 x 1440 30fps
SP360 4K	2880 x 2880 8M 1:1	2880 x 2880 30fps, 2048 x 2048 30fps, 1440 x 1440 60fps, 1072 x 1072 60fps
ORBIT360/4KVR360	3680 x 3680 13M 1:1	2880 x 2880 24fps, 1920 x 1920 30fps

## Control Area

Control Area function is available for images shot in Round (Dome) Mode and VR Mode, but Calibration function is only available for images shot in Round (Dome) Mode.

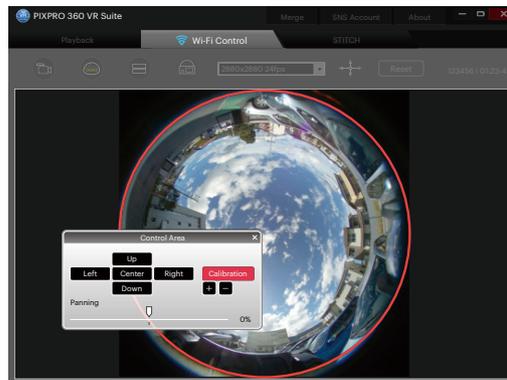


## Calibration

Fine-tune video image range (this function allows adjustment of the imaging area before shooting)

Follow these steps to fine tune the image area:

1. Click the [Calibration] button in the control area and the red calibration line will appear in the display area



2. You can use your mouse to adjust:

- Use the left mouse button to drag and move the image
- Use the mouse wheel or other mouse function to scale the image

3. Click the [Calibration] button again, the setting will be saved and the calibration line will disappear

## Up / Down / Left / Right / + / -

These buttons provide functions such as moving, flipping or zooming the image

Buttons \ Unfold Mode	Up / Down	Left / Right	+ / -
	No Effect	Move Clockwise / Counter Clockwise	No Effect
	Move Up / Down	Move to the Left / Right	Zoom In / Out
		Move Clockwise / Counter Clockwise	
	No Effect	Move to the Left / Right	
	Flip Up / Down	Move Clockwise / Counter Clockwise	
	Move Up / Down		
	Flip Up / Down		
	No Effect	No Effect	No Effect

 The operations referenced in this manual all refer to operations before images are edited or enlarged. For enlarged images in the Seg mode  or Panorama mode , both are able to move up or down.

 The functions of the four-way keys on the computer keyboard play the same role as those of the four-way keys of the control area (Up / Down / Left / Right).

### Center

Bring the image back to the default values.

**Direction and Speed of Panning**  0%

Drag the arrow to the left (or right) and the image will automatically rotate clockwise or counter clockwise. The more to the left (or right) the arrow points, the faster the image will rotate.

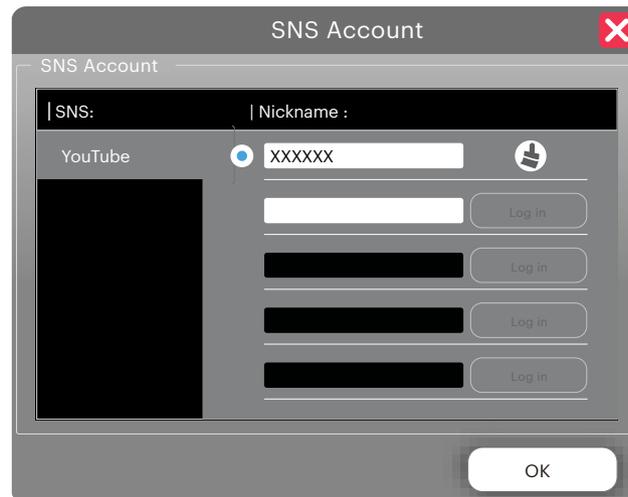
## Reset

Click the [Reset] button to restore the settings to the file's original state.

 This function is only available for images shot in Round (Dome) Mode and VR Mode.

## >3 SNS Account Setup:

1. Click [SNS Account] to enter the SNS Account setup screen.
2. Select the SNS type and create an SNS account. Enter the account alias in the field [Nickname] and click [Log in] to enter the log in screen.
3. Enter the SNS account and password on the login screen; then click [Log in] to enter the account screen which displays the set nickname.
4. Select [Allow] to get full access authority for the account. When this step is completed, the log in dialog box will be closed.
5. To set multiple accounts, repeat steps 1-4.
6. After all SNS accounts are set, click [OK] to close the setup dialog box.



 This setup needs to be completed while connected to a network.

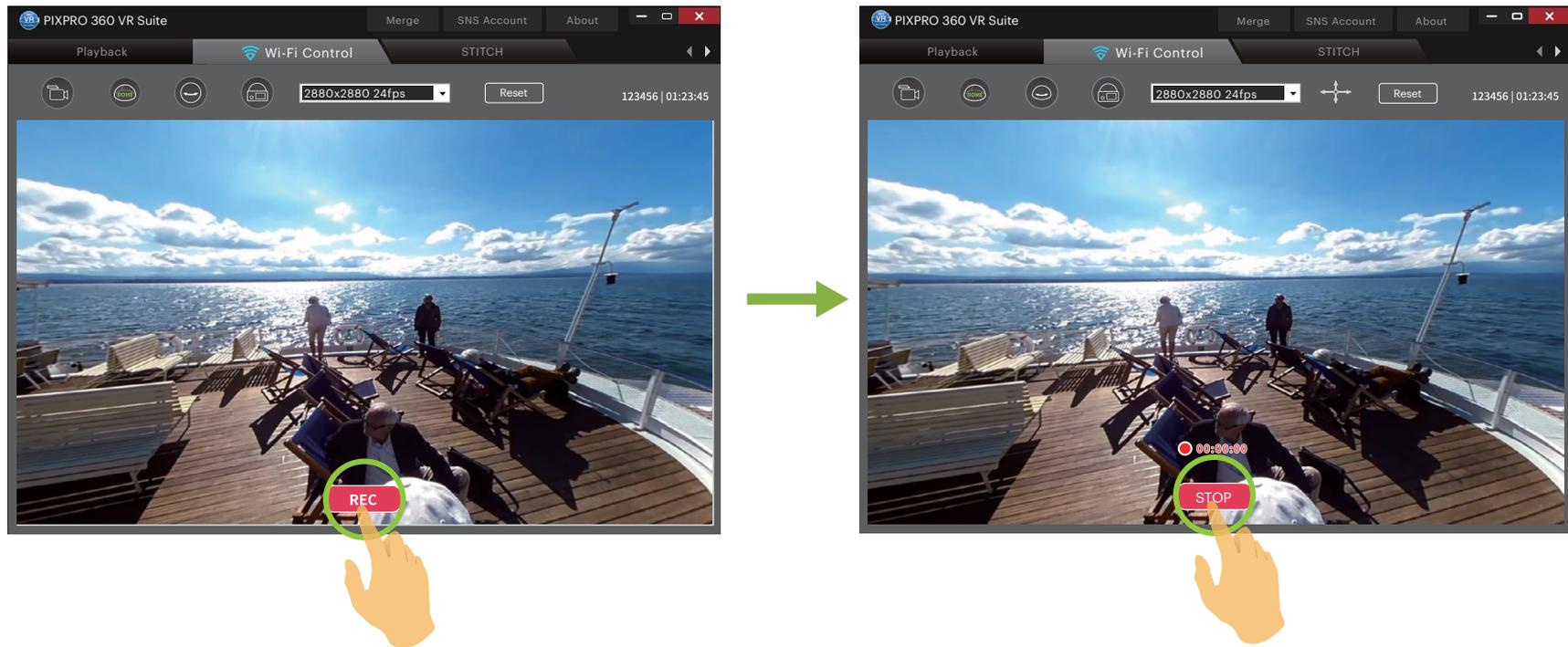
 The set account can be removed by clicking .

## > 4 Shooting Method:

- 📄 If there is no micro SD card inserted in the camera, when you click the [REC] button or the photo [Shutter] button, you will see the warning message: [No SD Card!] and the camera will not be able to record.

### Recording Videos:

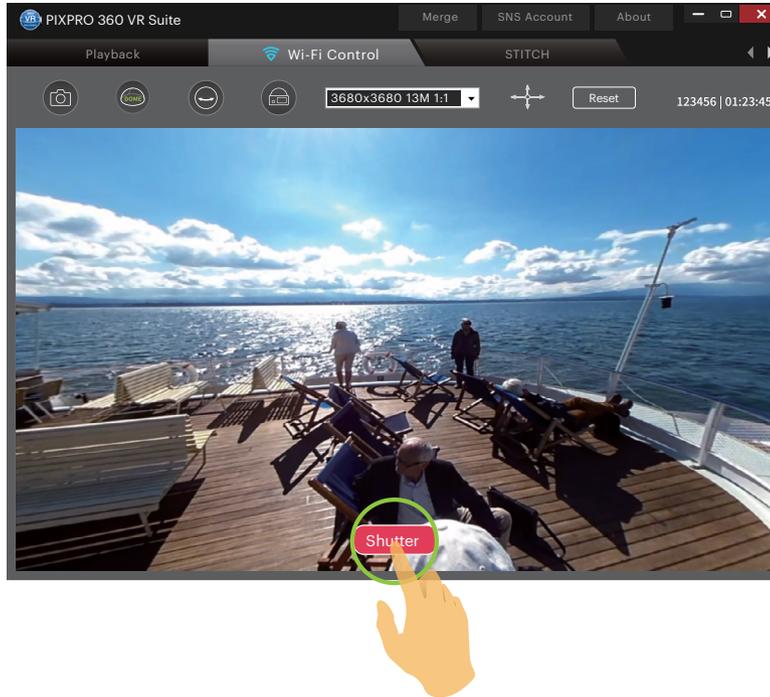
Click the [REC] button to start recording video. Click the [STOP] button to stop recording video.



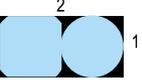
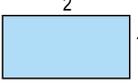
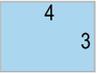
- 📄 If the Wi-Fi® connection is interrupted during the video recording process, the camera will continue to record and a [Warning!] message will pop up on the computer. Click [Retry] to reconnect.

## Taking Photos:

In the video recording screen, click the icon  to select and the  photo mode icon. Set the relevant parameters and click the [Shutter] button to take a photo.



### Image Format Description:

Image Type	Storage Format	Image Type	Storage Format
VR-Global 2:1		VR-STITCH 2:1	
Round (Dome) 1:1	 : For ORBIT360 4K /4KVR360 camera, only Lens B(235°) support this function		
Front 4:3		Front 16:9	

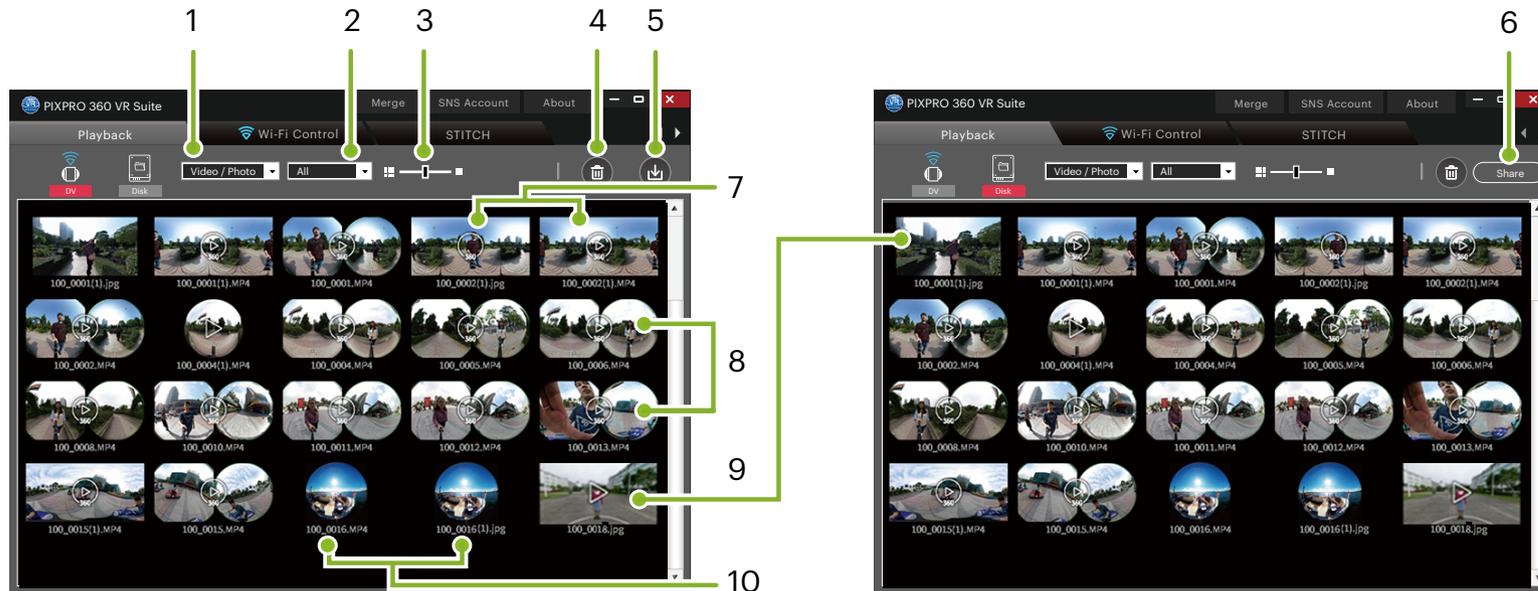
# > Playback

Click the [Playback] tab to enter the [Playback] interface and enable playback or editing of files. Software will default to enter the index playback interface.

## > 1 Playback Interface:

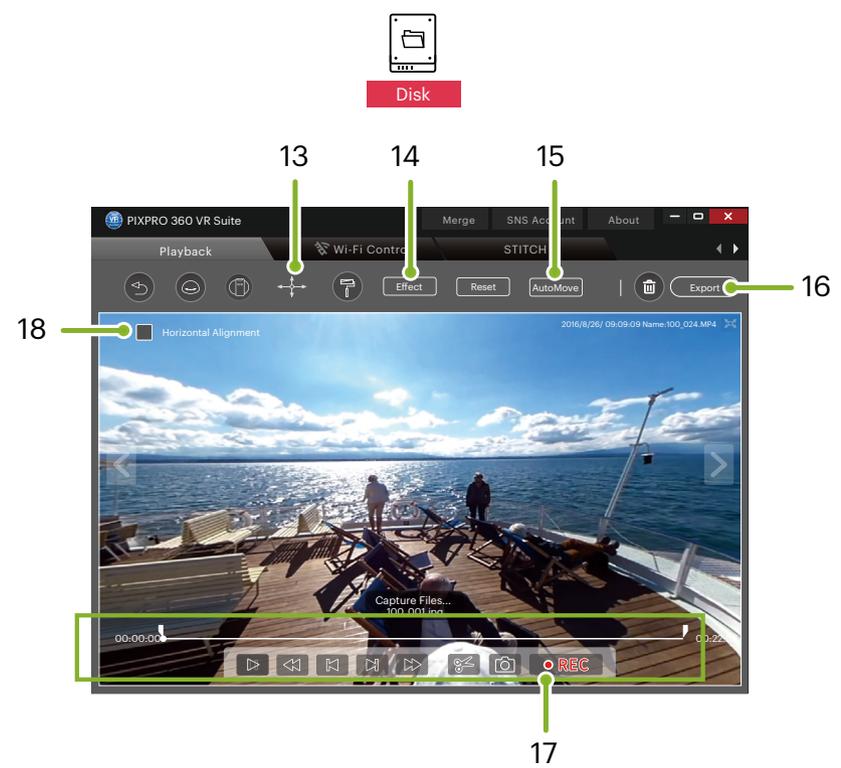
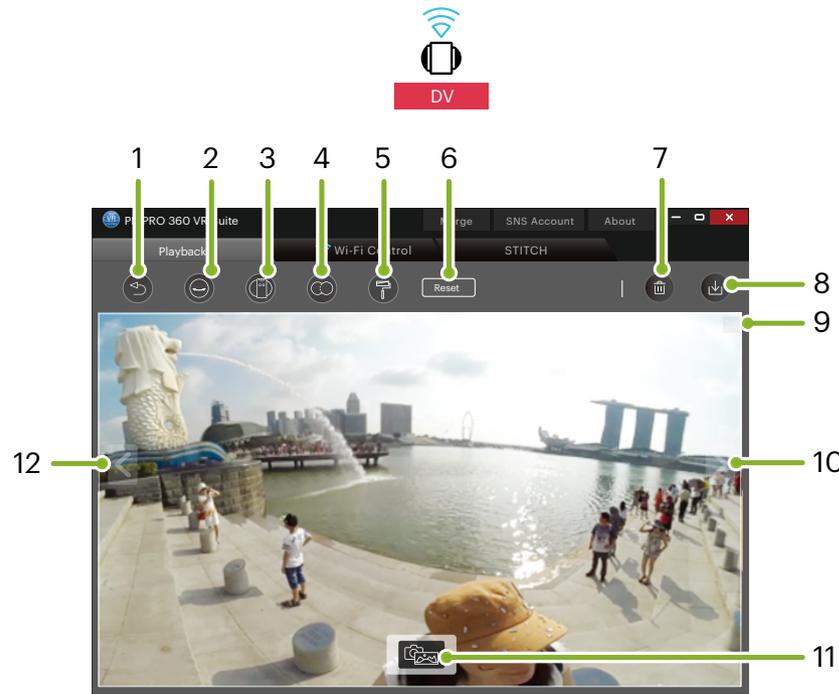
### Index Playback Interface

 In the Wi-Fi® connection state, you can browse the files in your camera.		 Browse the files in the camera while in the USB connection state or the files on your computer.		
 SP360 Camera	 SP360 4K Camera	 ORBIT360/4KVR360 Camera	 VR Videos	 VR Photos



1	File Format	4	Delete	7	VR-Stitch Images	10	Round (Dome) Images
2	Aspect Ratio	5	Download	8	VR-Global Images		
3	Thumbnail Zoom	6	Share	9	Front Images		

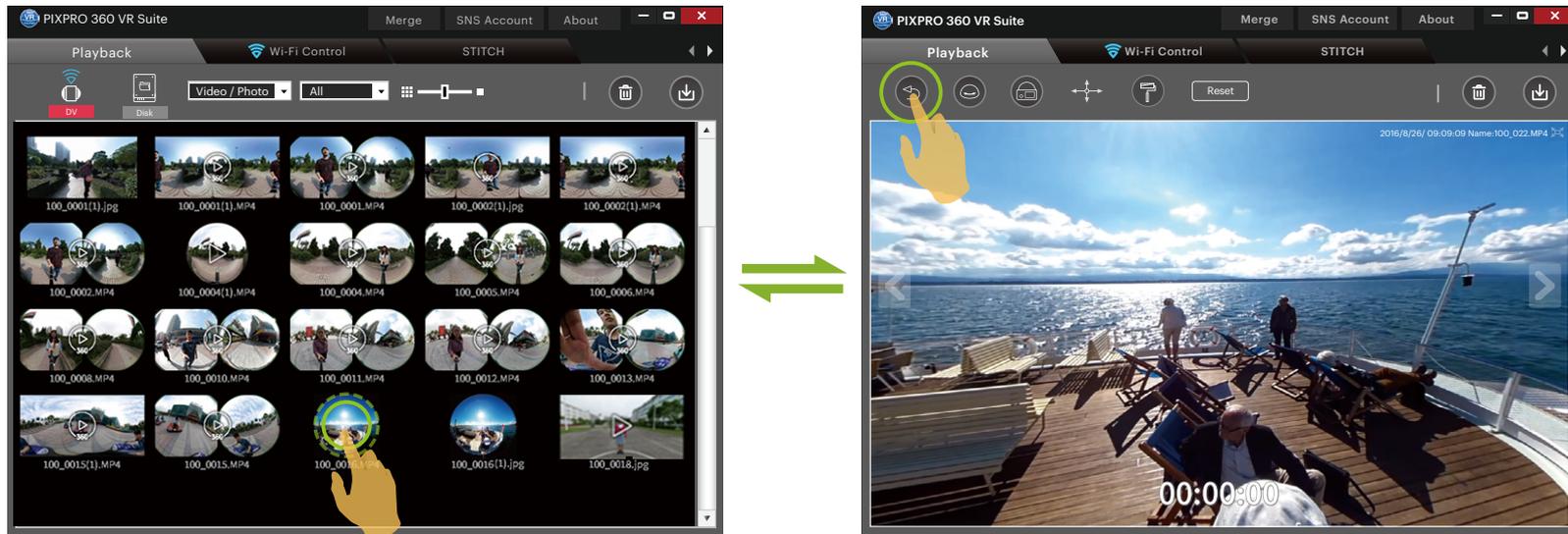
# Single Playback Interface:



1	Return to Index Playback Interface	6	Reset	11	Save the expanded photo	16	Export
2	Unfold Mode	7	Delete	12	Switch to the previous photo or video	17	Control bar for the video
3	View Mode	8	Download	13	Control Area	18	Horizontal Alignment
4	Lens Calibration	9	Enlarge the Image	14	Effect		
5	Color Settings	10	Switch to the next photo or video	15	AutoMove		

## >2 Switching the Interface of Index Playback and Single Playback:

1. In the Index Playback Interface, double-click the thumbnail of the selected photo or video to enter the Single Playback Interface.



2. In the Single Playback Interface, click the  icon to switch to the next photo or video; click the  icon to switch back to the previous photo or video.
  - Press and hold the left mouse button to drag the image. Roll the wheel or equivalent mouse operation to zoom in and out of the image.
  - If you are using a touch-screen computer, you can use your finger to drag the image or two fingers to zoom in and out of the image.
3. Click the  icon to return to the Index Playback Interface.

## >3 Description of Functions in Playback Mode:

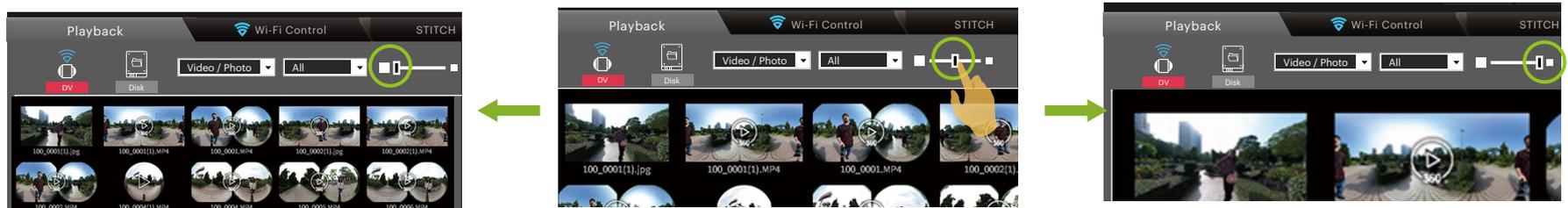
### File Format & Aspect Ratio

In the Index Playback area, click the [File Format] option box to switch between different file formats. Click the [Aspect Ratio] option box to switch between different file ratios.



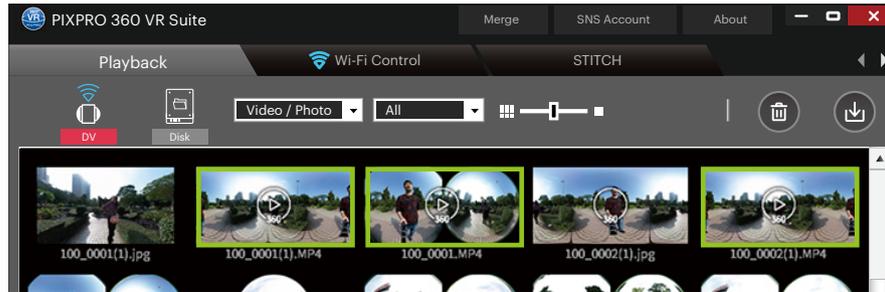
### Thumbnail Zoom

Slide the toggle bar to the  icon on the left to zoom out of the thumbnail images in the Index Playback display area or slide the toggle bar to the  end to zoom into the thumbnail images.



## Select Multiple Files

In the Index Playback Interface, hold down the [Ctrl] key on the computer keyboard, then click on the image thumbnail to select multiple image files. You can also hold down the left mouse button to drag the mouse frame to select multiple image files.



- Click the up ▲ or down ▼ arrows to view before and after image files. You can move the mouse cursor to the right of the white scroll bar and hold down the left mouse button, dragging the mouse to view before and after image files.



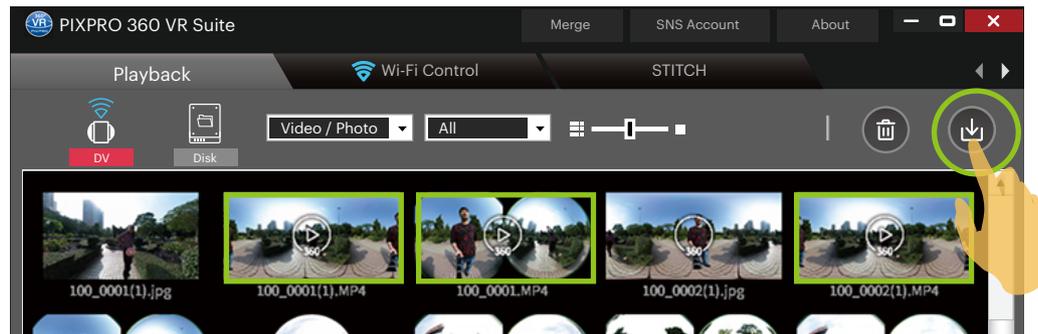
- Click on the selected image thumbnails again to cancel the selection.

## Downloading:

Download photos or videos from the camera to your computer.

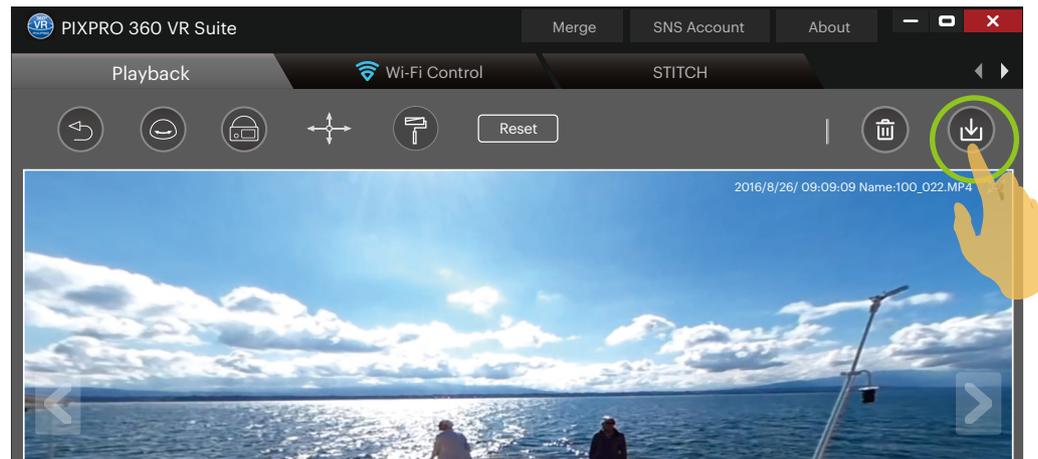
- **In the Index Playback Interface:**

Select one or more file(s) you want to download and click the download  icon to download the file(s).



- **In the Single Playback Interface:**

Click the left  / right  icons to switch to the file(s) you want to download. Click the download  icon to download the desired file(s).



Double-click the thumbnail of the selected image to switch to the Single Playback mode.

## Unfold Mode:

Click the Unfold Mode icon to view the expansion effects.

VR Mode	•  Eq (Equirectangular)	•  Little Planet	•  Magic Flat	•  Fish-Eye
Round (Dome) Mode	•  Global	•  Seg (Front/Back)	•  Quad	•  Panorama
	•  Ring	•  Dome	•  Magic Flat	•  Eq (Equirectangular)
Front Mode	•  Front (4:3)	•  Front (16:9)		

See Page 14 and 15 for visual representations of the above options.

Round (Dome) Mode	•  Extraction	•  Throw-out
-------------------	--	---



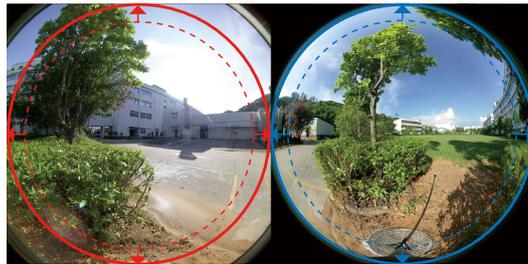
## Viewing Modes:

See Page 11 for detailed explanations of Capture, Camera and Unfold modes.

## Lens Calibration:

This function is only available for images shot in VR-Global 2:1 (ORBIT360 4K /4KVR360).

The adjustable area of Stitching  
Lens A(155°) Lens B(235°)



Adjustment range of available stitch position  
(Change the radius of Lens A - Front)



1. Click the  icon to display the [Lens Calibration] dialog box
2. Click the  icon and select the shooting method from the pull-down menu
3. Adjust each slider to fine-tune the stitch position of each image



4. Check [Optical Flow Stitch], it will improve the stitching line.

But if the taken object is too much near, it doesn't have clear effect.



 This process will be applied for every frame, thus movie playback/encoding performance will be worse.

5. Click the [OK] button to save the fine-tuning effects; click the [Default] button to return each adjustment to the initial position; click the [x] button on the upper right to exit the adjustment setting.

## **Control Area:**

### **Calibration**

See Page 16 for detailed explanation.

## Up / Down / Left / Right / + / -

Buttons Unfold Mode	Up / Down	Left / Right	+ / -
	No Effect	Move Clockwise / Counter Clockwise	Zoom In / Out
			
			
	Move to the Left / Right		
	Move Up / Down	Move Clockwise / Counter Clockwise	
	No Effect	Move to the Left / Right	
	Flip Up / Down	Move Clockwise / Counter Clockwise	
	No Effect	Move to the Left / Right	
			
	Move Up / Down	Move Clockwise / Counter Clockwise	
	Flip Up / Down		
	No Effect	No Effect	No Effect

### Center

See Page 17 for detailed explanation.

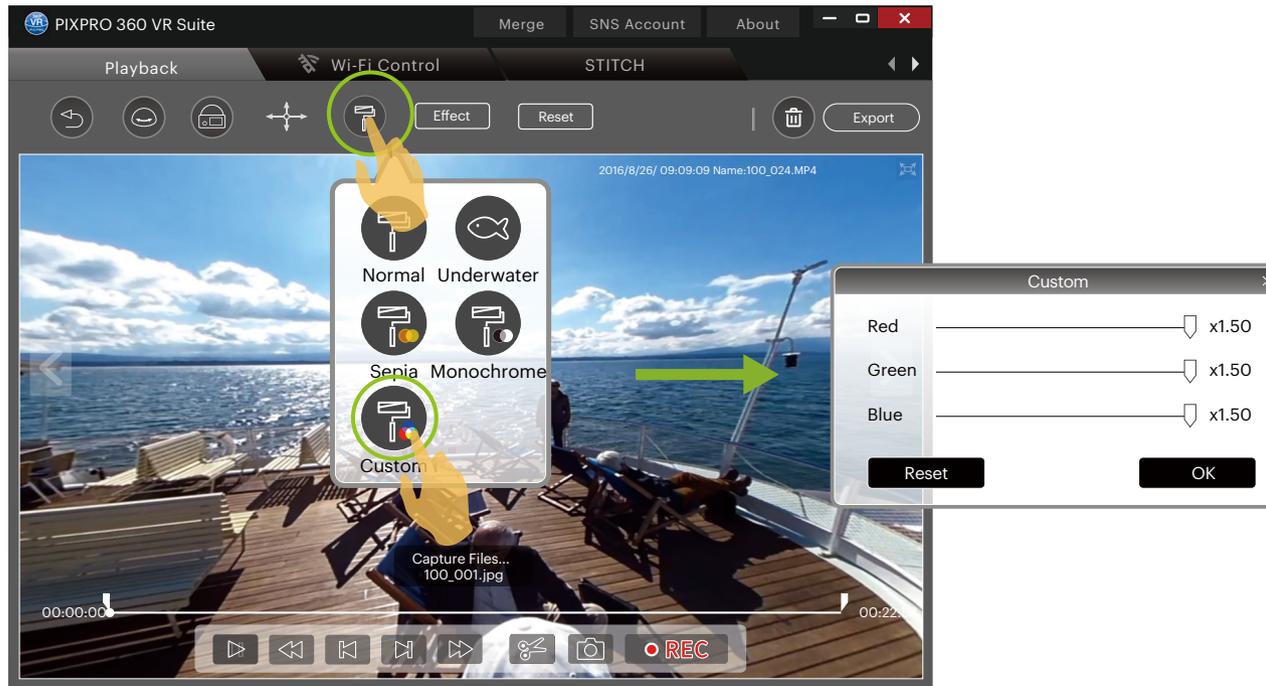
**Direction and Speed of Panning**  0%

See Page 17 for detailed explanation.

## Color Settings

Adjust the color effects of the image.

1. Click the  icon to display the [Color Settings] dialog box
2. Select an option from the pull-down menu



3. If you select Custom, you can fine-tune the color by adjusting each slider
4. Click the [Reset] button to reset the Custom setting to the initial value
5. Click the [Export] button or [REC] button to save the adjusted image as a new file

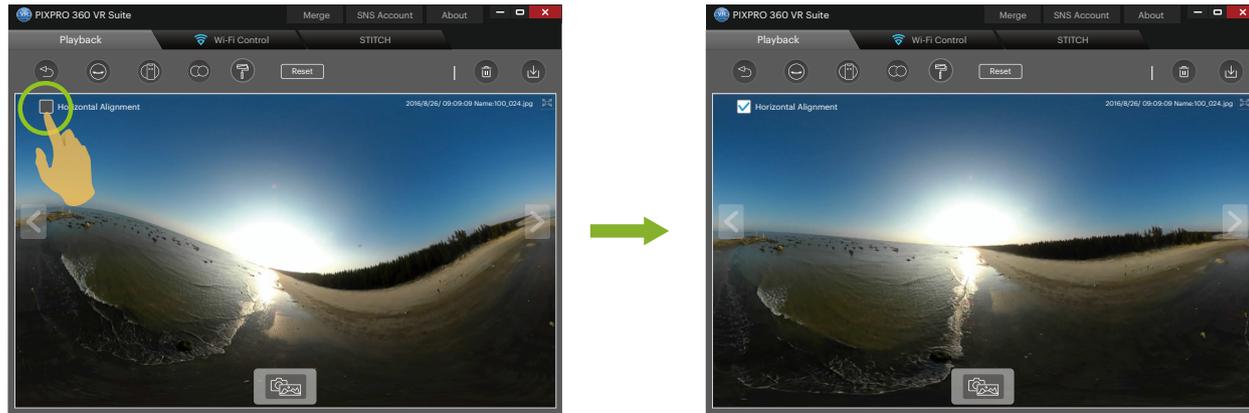
 This function cannot be used during the video re-recording procedure

 The color settings will apply to the images you adjusted. When shutting down and restarting the software, these settings will automatically revert to the default value

## Horizontal Alignment:

Even if the camera is tilted vertically (pitch direction) and horizontally (roll direction) during shooting, this function will help keep the image horizontal, improve image stabilization, reduce handshaking and help to view a smooth movie during playback.

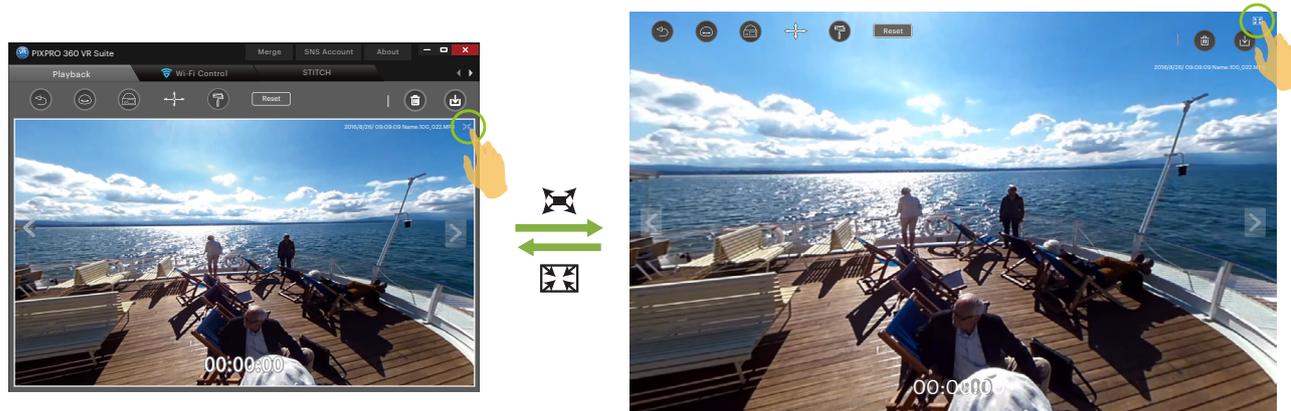
This function is only available for VR Mode.



 Videos shot with camera firmware v1.30 or later are displayed as [Horizontal Alignment +], and you can enjoy smoother video.

## Enlarge Image(s):

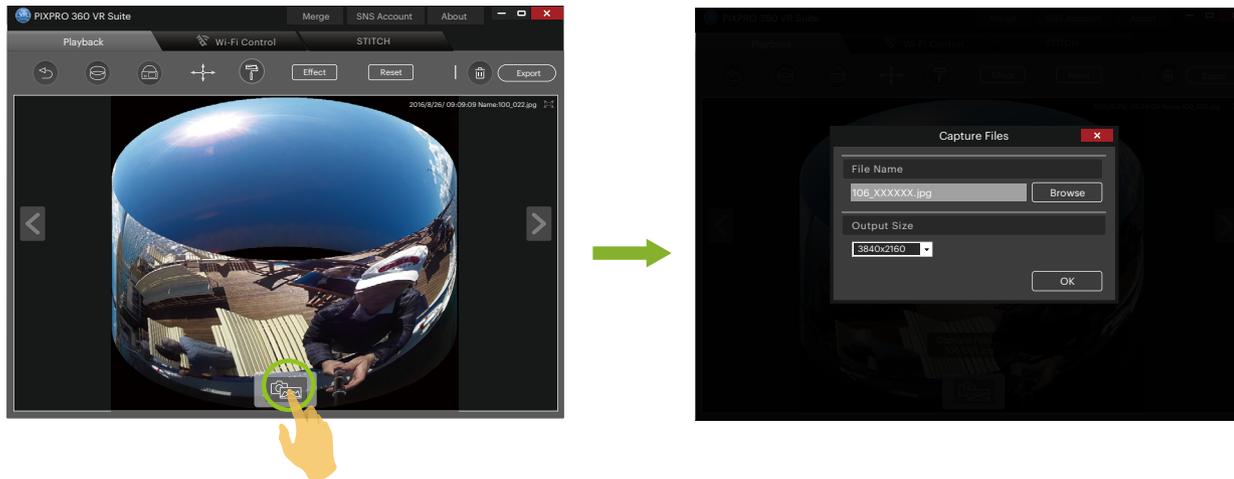
Click the [Expand]  icon to enlarge the desired image and enter the enlargement screen. Then click the [Reduce]  icon to return to the Single Playback Interface.



- Press and hold the left mouse button to move or rotate the image. Roll the wheel or equivalent mouse control to move forward and backwards to zoom in and out of the image.
- If you are using a touch-screen computer, you can use your finger to drag the image to move and rotate or two fingers to zoom in and out of the image.

## **Saving Expanded Photos:**

1. In a non-Wi-Fi® connected state, the unfold effect of the current photo can be saved by clicking the  icon.



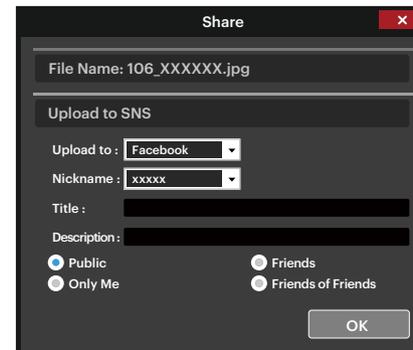
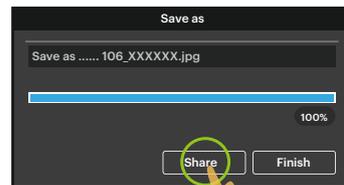
2. Click [Browse] to select the storage location of the file and then click [Archive] to return to the Capture Files screen.
3. Click the [Output Size] option box to select the desired file output size.



Please refer to the following table for the input and output size of each image:

Input Size		Output Size			
		Eq	16:9	4:3	1:1
Round (Dome) 1:1	1072 x 1072	1920 x 960	1280 x 720	1280 x 960	~ 1072 x 1072
	1440 x 1440		~ 1920 x 1080	~ 1920 x 1440	~ 1440 x 1440
	1920 x 1920				~ 1920 x 1920
	2048 x 2048	~ 3840 x 1920	~ 3840 x 2160	~ 3840 x 2880	~ 2048 x 2048
	2880 x 2880				~ 2880 x 2880
	3264 x 3264				~ 3200 x 3200
	3680 x 3680				~ 3680 x 3680
VR-Global 2:1 (Equirectangular)	1280 x 640	1920 x 960	1280 x 720	/	
	1920 x 960		~ 1920 x 1080		
	3840 x 1920	~ 3840 x 1920	~ 3840 x 2160		
	5520 x 2760				
	7360 x 3680				~ 7360 x 3680
Front 16:9	1280 x 720	/	1280 x 720	/	
	1920 x 1080		~ 1920 x 1080		
	3840 x 2160		~ 3840 x 2160		
Front 4:3	2304 x 1728	/	/	~ 3840 x 2880	
	2592 x 1944				
	3526 x 2644				

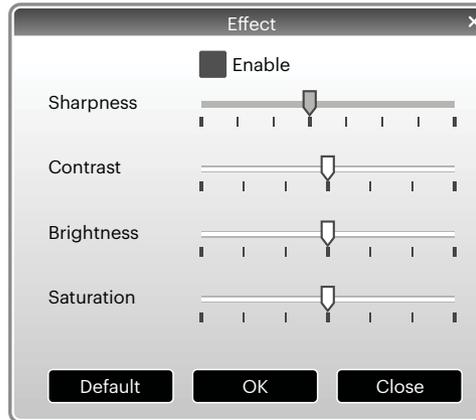
- Click [OK] to enter [Save as] screen. When saving and storage is complete, click [Finish] to return to the Single Playback Interface screen or click [Share] to share it to the desired social networking software or website.



## Effects

 This function is available for photos or videos in a non-Wi-Fi® connected state.

1. Click the [Effect] button to enter the [Effect] window.



2. Slide the arrow to the left or right to adjust the Sharpness/Contrast/Brightness/Saturation of photo or video.

 Before adjusting Sharpness, click the [Enable] button.

3. Click [OK] to save the settings. Click [Default] to restore the initial photo/video settings. Click [Close] to close the window.

## Reset

Click the [Reset] button to restore the settings of your photo/video to the initial unedited state.

 This function is only available for images shot in Round (Dome) Mode and VR Mode.

# AutoMove

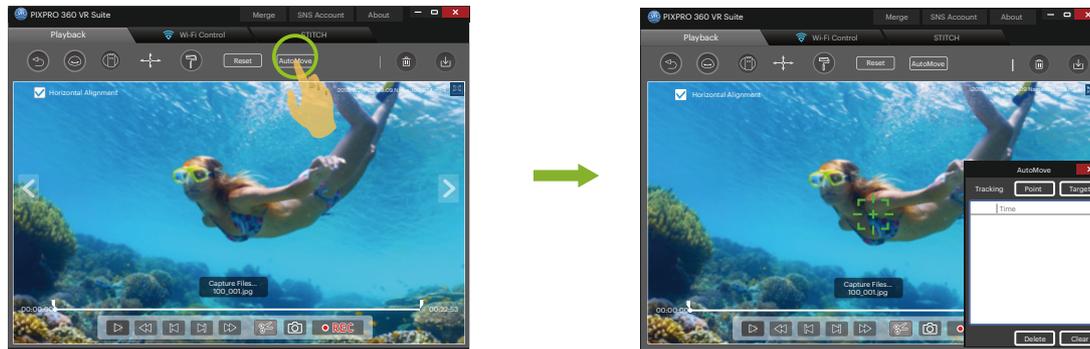
 This function is only available for videos recorded in VR Mode.

## Point Tracking

This will move the viewing position to a specific chosen point in the video in a linear fashion.

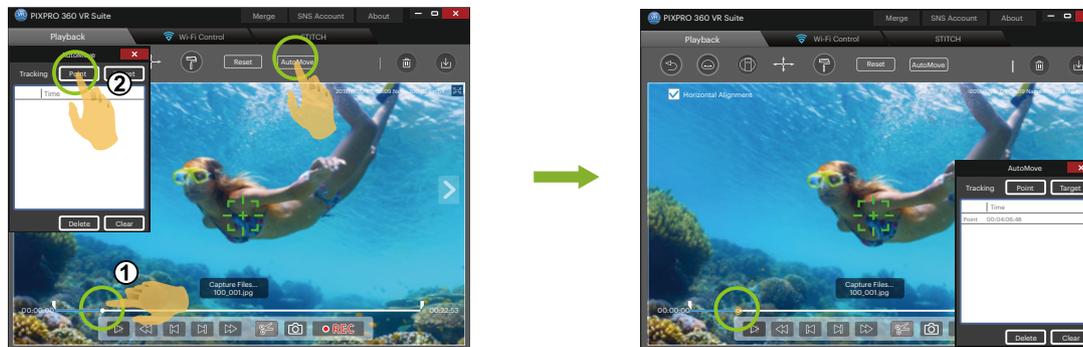
 To move fluidly and smoothly, you may select multiple points to track in the video.

1. Click the [AutoMove] button to display the [AutoMove] window and green focus frame.



 You can drag the [AutoMove] window to any position on the screen so that you can easily preview the set motion in real-time.

2. Preview the video and select a desired frame as the target tracking point by sliding the small dot or sliders on the progress bar. Click the [Point] button and the selected frame on the video progress bar will be marked and its time will display on the [AutoMove] window.



 Click the tracking record you want to delete and click the [Delete] button to delete it. Click the [Clear] button to clear all tracking records.

## Target Tracking

This feature will automatically track a desired target/object when you initially select it. If the target/object is lost during recording, the target tracking feature will quit.

 To correctly track an object or target, please select and choose an object that is a different shape and/or color from the rest of the background environment.

1. Drag the screen to create the green focus frame on your object or place it on the desired position. Doing this will automatically select objects or subjects that cross the selected position.

 To avoid losing the selected object during the tracking process, we recommend placing the focus frame on the steadiest part of the desired object/subject and as far away as possible, such as on the subjects head or torso when in motion.

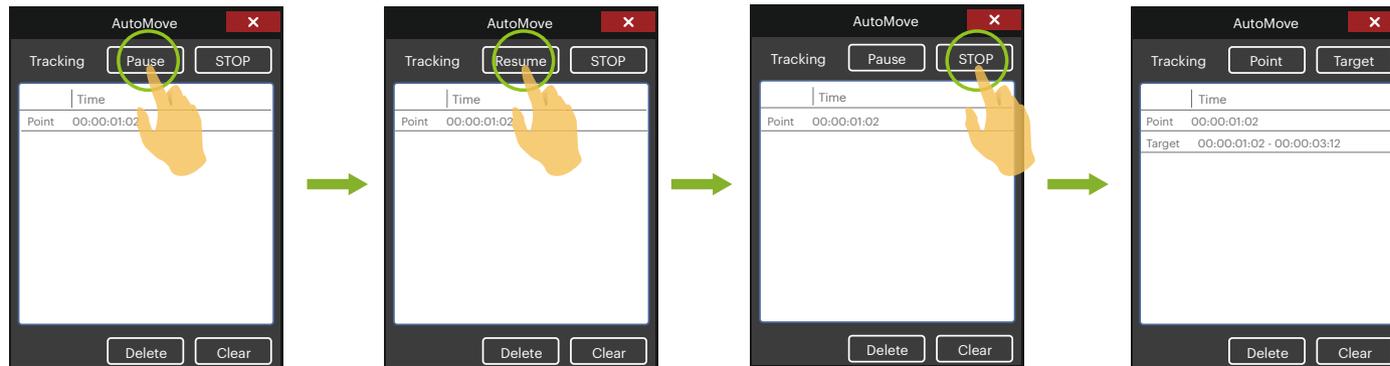
2. Click the [Target] button to start target tracking.

When you click the [Pause] button, the target tracking pauses and the focus frame turns 'red'.

Click the [Resume] button to resume target tracking and the focus frame turns 'green'.

Click the [STOP] button and finish tagging, the tracked time segment is displayed.

Click the [Target] button to begin recording the new target tracking.



 Click the tracking record you want to delete and click the [Delete] button to delete it. Click the [Clear] button to clear all tracking records.

 The tracked time segment will be marked with a yellow-green color on the video Progress Bar.

3. Click [X] to close the [AutoMove] window.

# Control Bar for Video



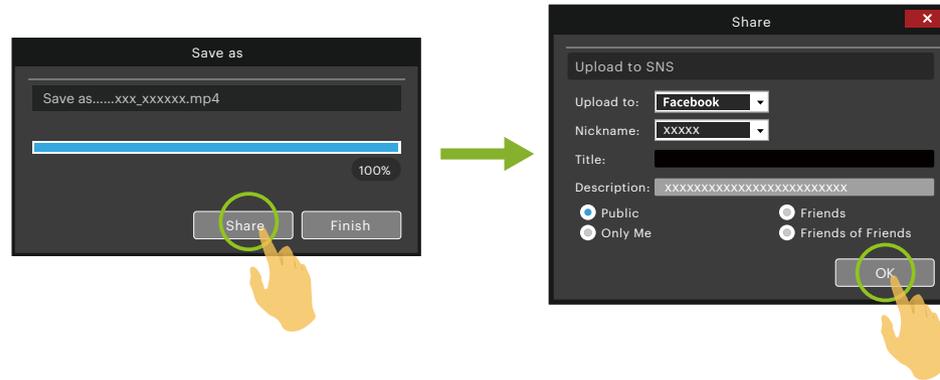
Click  to play the video, and click  to pause the video.

•  Play	•  Pause
•  Previous Frame/Rewind	•  Next Frame / Fast Forward
•  Go back to the first frame	•  Jump to the last frame
•  00:00:00 00:22:53 Video Progress Bar You can jump to a particular frame in your video file by sliding the small dot on the progress bar to the desired frame. The starting and ending points of video files can be selected by selecting and moving the two sliders above the progress bar.	

When the ▶ icon is displayed on the video, you can move the two sliders above the progress bar to select the section of the video you want to edit and save as a completely new video.

- ✂ Video Cutting/Editing

Click the ✂ button and select [Archive] in the pop-up window to enter the [Save As] progress box. When the save/storage is complete, click [Finish] to return to the Video Play screen or click [Share] to share it to the desired social networking software or website.



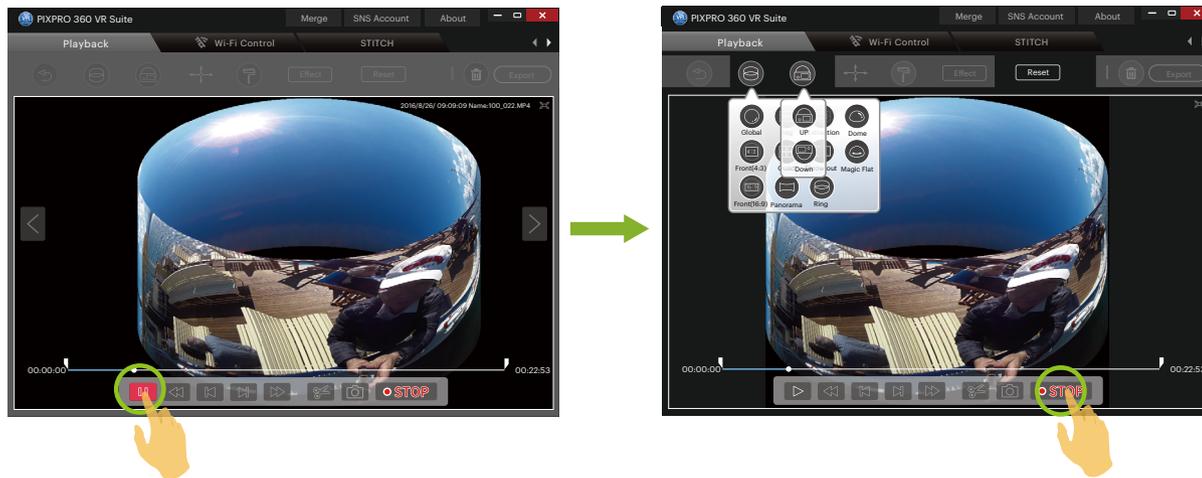
- 📷 Screenshot  
When the ▶ icon is displayed on the video, you can capture the current frame as a photo file.

- REC Re-record

1. Click the ● REC button to enter Re-record screen.



- Click [Browse] to select the storage location of the file and then click [Archive] / [Save] to return to the Re-record screen.
- Click the [Output Size] option box to select the desired file output size.
  - If the video is set in the [Equirectangular] mode (🌐) to playback, it will be re-recorded in the size of [3840 x 1920, 2880 x 1440, 1920 x 960, 1440 x 720 or 720 x 360]; if not, it will be re-recorded in the size of [3840 x 2160, 2560 x 1440, 1920 x 1080, 1280 x 720 or 640 x 360].
- Click [OK] to return to the Video Play screen to start recording and click the **● STOP** button to stop recording.

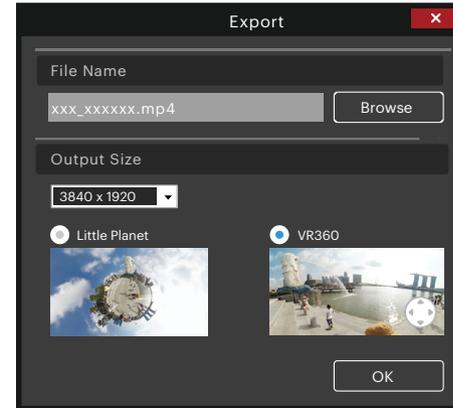
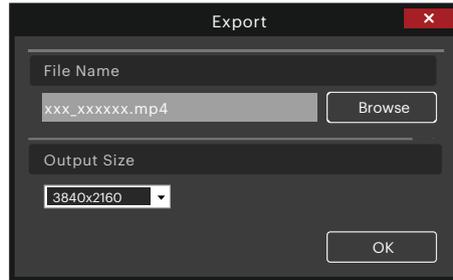


- When recording, you can click the [ ] [ ] button to pause, then click the play [▶] button to continue.
  - When the [▶] icon is displayed on the video, you can adjust the video settings and the new effects will be recorded in the new video file you create and save.
- When recording is complete, the [Save As] progress box will pop-up. When storage and file saving is complete, click the [Finish] button to return to the Video Play screen or click [Share] to share it to the desired social networking software or website.

## Exporting and Sharing

- **In the Single Playback Interface**

1. Click the [Export] button to enter the Export screen.



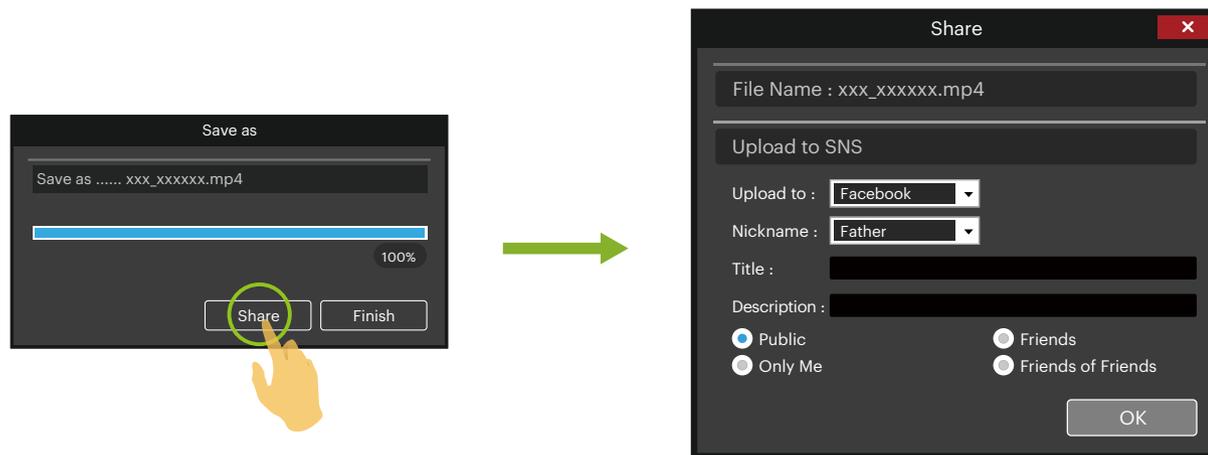
 For VR photos or videos, there are two output types for you choosing. Front mode (16: 9) where you can not move the viewpoint after output; VR mode (2: 1) where you can move the viewpoint on this software or SNS.

2. Click [Browse] to select the storage location of the file , then click [Archive] to return to the Export screen.
3. Click the [Output Size] option box to select the desired file output size.

 Corresponding table for each type of image and resolution:

Image type		Resolution				
VR/Round (Dome) images Eq (  ) Unfold mode	Photos	7360 x 3680	3840 x 1920	1920 x 960	1280 x 640	-
	Videos	3840 x 1920	2880 x 1440	1920 x 960	1440 x 720	720 x 360
All images Non-Eq Unfold mode	Photos	3840 x 2160	2560 x 1440	1920 x 1080	1280 x 720	640 x 360
	Videos					

4. Click [OK] to enter the [Save As] screen. When the save/storage is complete, click [Share] to enter the [Share] screen.



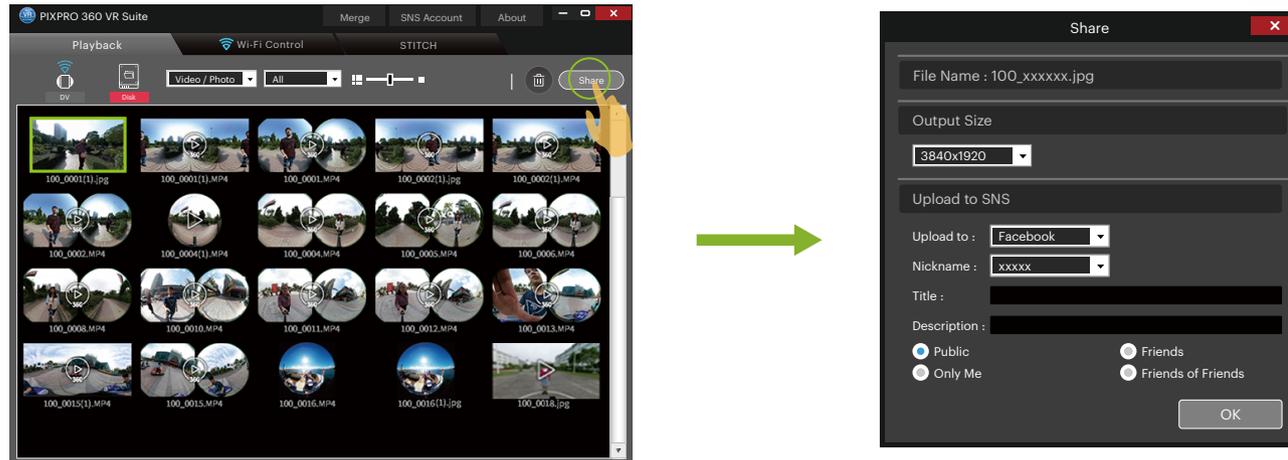
- (1) Select the desired social networking software or website you have a registered account with or want to register to share (See Page 18 for registration method and instructions).
- (2) It is a requirement to enter the [Title] and [Description] of the file and select the desired range of sharing
- (3) Click [OK] to export the current file/image and upload it to YouTube™. When the file is finished uploading, click [Finish] to return to the Single Playback Interface

 You can click [Finish] to skip the SNS share function and return to the Single Playback Interface.

- **In the Index Playback Interface**

 Selecting simultaneous playback of photos and videos is not possible.

1. Select one or more photos (or videos) that you want to share, then click the [Share] button to enter the Share Interface.



2. Select the desired social networking software or website you have a registered account with or want to register to share (See Page 18 for registration method and instructions).
3. It is a requirement to enter the [Title] and [Description] of file and select the desired range of sharing.
4. Click [OK] to directly upload the image files onto YouTube™.

 After uploading, you can check the uploaded photos (or videos) by logging into your YouTube™ account.

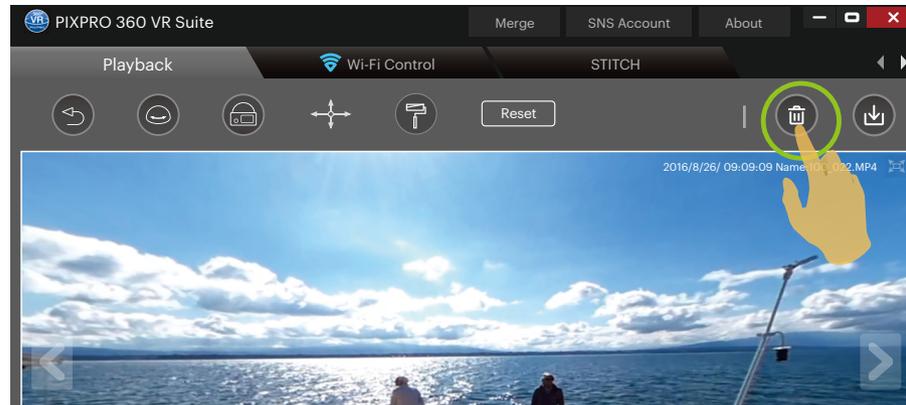
5. Click [Finish] to close the upload window and return to the Playback Index screen

## Deleting

Deleting selected photos or videos.

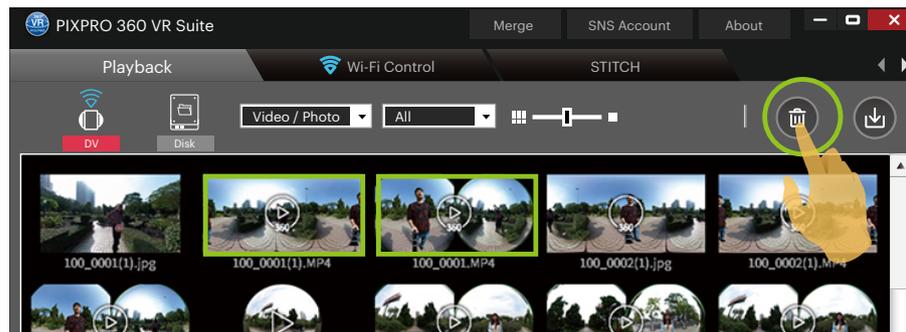
- **In the Single Playback Interface**

Click the left < / right > icons to switch to the previous/next photo or video, then click the trash  icon to delete it.



- **In the Index Playback Interface**

Select one or more file(s), then click the trash  icon to delete them.



## >4 Merging

Click [Merge] to enter the [Merge] screen. There are two options: (1) Join Videos; (2) Create Videos.

- 📄 Images or files that are not taken by this camera, or a series of different manufacturer's cameras or the same KODAK PIXPRO branded models with different settings and parameters, cannot be stitched using this PIXPRO 360 VR Suite software.
- 📄 If merged image files have differences in original recording conditions that vary from the original image files, the difference in information will display as an [Error] in red fonts located in the [Error] bar.

### Joining Videos

Several videos can be joined together to be integrated and saved into one video.

Only videos that have the same recording parameters as the original video files can be added or joined using this PIXPRO 360 VR Suite software software.

1. Click [Join Videos], then click [Add] to combine several video files from the file selection dialog box



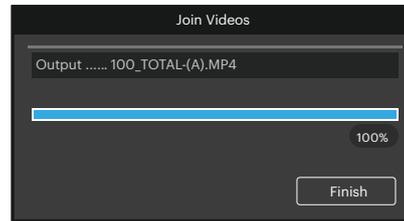
Click [Remove] to delete the video file(s) selected in the list of input files. This feature can be used to delete unwanted files or error files prompted with a red error font

Click [Clear] to delete all of the video files in the list of input files

Click the up ↑ or down ↓ arrows to move the selected video files and adjust the order of the video files in the list of input files

2. Click [Browse] to choose the path to save the final new output file

3. When there are no error files in the list of input files, click [OK] to start the video joining mode and file integration.



4. When the output is complete, click [Finish] to return to the Merge screen.

## Creating Videos

Several photos can be integrated into one new video.

Only photos that have the same original recording conditions as the first photo can be joined via integration in this software.

1. Click [Create Video] then click [Add] to add one or more photo files from the file selection dialog box

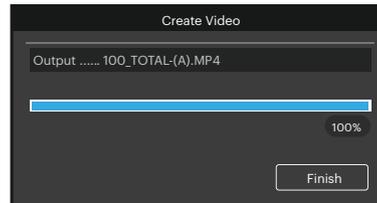


Click [Remove] to delete the selected photo file(s) selected in the list of input files. This feature can be used to delete unwanted files or error files prompted in a red error font

Click [Clear] to delete all of the photo files in the list of input files

Click the up ↑ or down ↓ arrows to move the selected photo files and adjust the order of the photo files in the list of input files

2. Click [Browse] to choose the path to save the newly created output file.
3. When there are no error files in the list of input files, click [OK] to start the new video integration and joining of photo files into a new video.

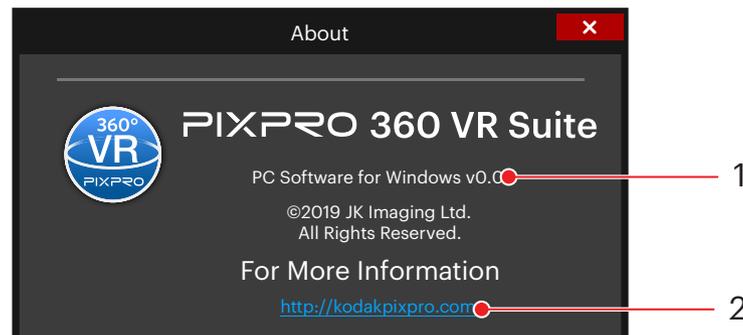


4. When the output is complete, click [Finish] to return to the Merge screen.

## >5 About

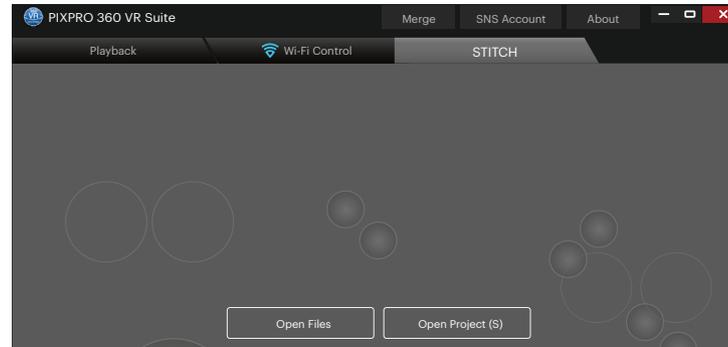
Click [About] to enter the About Interface.

1. Here you can view the current version of software
2. Visit our KODAK PIXPRO official website via the software interface for more information



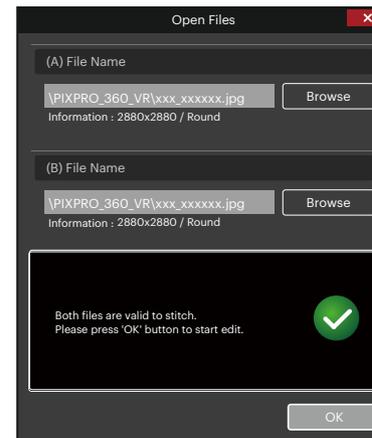
# > STITCHING with the SP360 & SP360 4K Cameras

Click the [STITCH] tab to enter the first screen of STITCH. There are two options: (1) Open Files; (2) Open Project(s)



## > 1 Open Files

1. Click [Open Files] to enter the [Open Files] interface
2. Click the first [Browse] button to select a round video (or photo) you want to add. Then click the second [Browse] button to add another round video (or photo). When the two newly added videos (or photos) match successfully, the  icon appears.



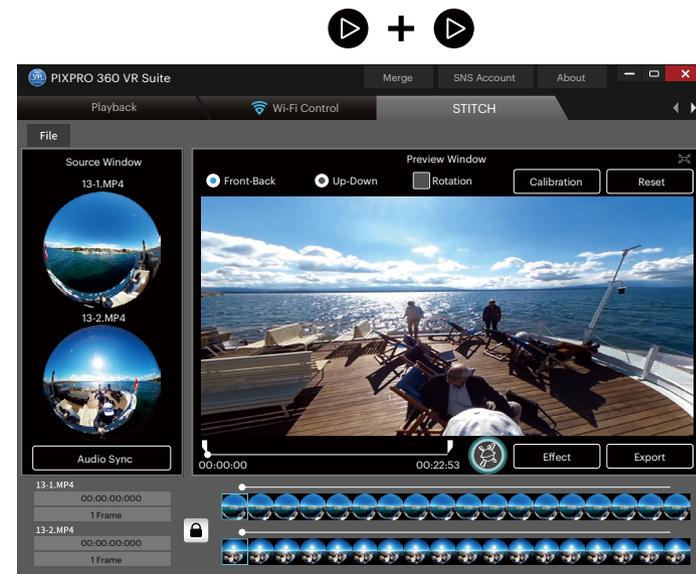
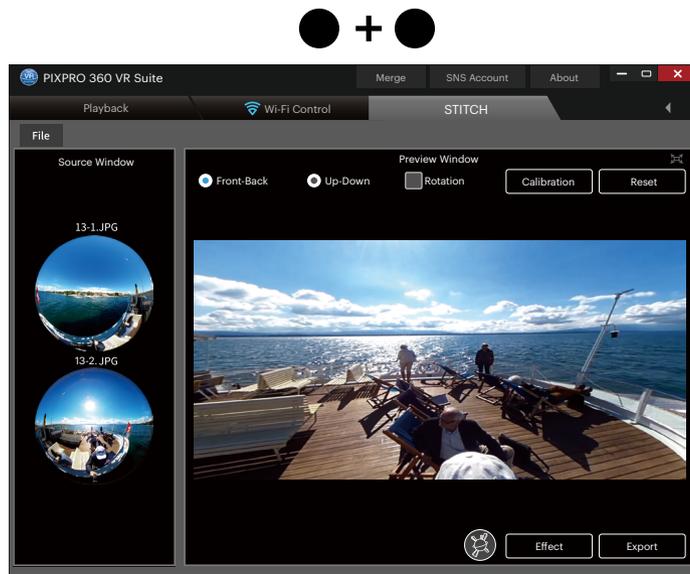
You can click the [Browse] button again to replace the added round file.

- 
 If the following information appears, stitching cannot be completed correctly:
  - The selected video/photo file is invalid or damaged
  - The aspect ratio of the selected file is not supported
  
- 
 Please select video/photo files with the same resolution  
 Please select video files with the same frame rate
  
- 
 You cannot stitch a video file with a photo
  
- 
 If the following information appears, stitching cannot be completed correctly. To ensure correct stitching, please make sure that the camera's EIS is set to 'Off' before shooting  
 Some files using EIS will not stitch accurately because the chosen file(s) is/are recorded with the camera setting EIS 'On'
  
- 
 Please select two video or photo files for stitching
  
- 
 Two video files can be dragged directly from the folder into the application interface, to quickly open the videos



- 
 Only round videos files (with aspect ratios of 1:1) can be stitched and saved.

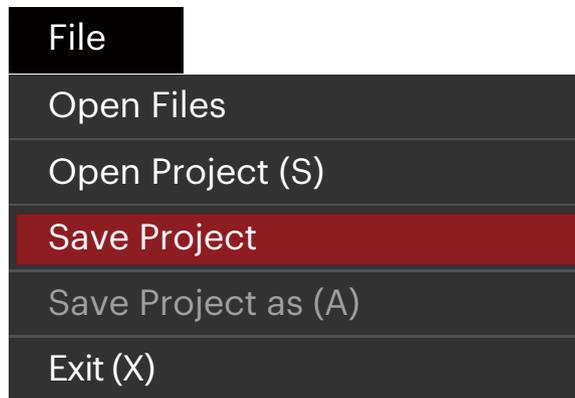
3. Click [OK] to enter the [STITCH] interface (The default for first frame synchronization).



## Set Stitching of images

### File

Click [File] in the pop-up File menu window.



Open Files: You can re-select new Globe Video (or photo) files for stitching in the pop-up window

Open Project(s): Open the project file (.spvr) saved previously

Save Project: Click [Save Project] and open the pop-up save window. Click [Save] to store the current stitched file as a project file (.spvr), then the software will automatically enter the project file stitching screen



 In the pop-up/save window, you can click [Cancel] to return to the Stitch Interface without storing the current file.

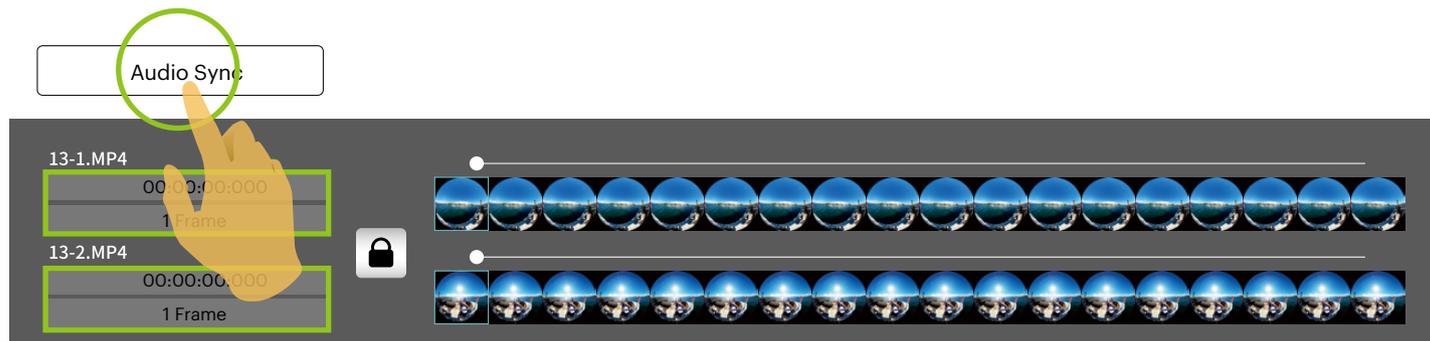
Save Project as (A): Save the project file being edited as a new file.

Exit (X): Close the File menu window.

## Source Window:

- **Audio Sync**

When stitching two videos together to make one 360° VR file, click [Audio Sync] to calibrate and synchronize output of video automatically based on the audio properties.



If the automatic stitching result is not satisfactory by choosing [Sound sync], the alternative steps below can be used in order:

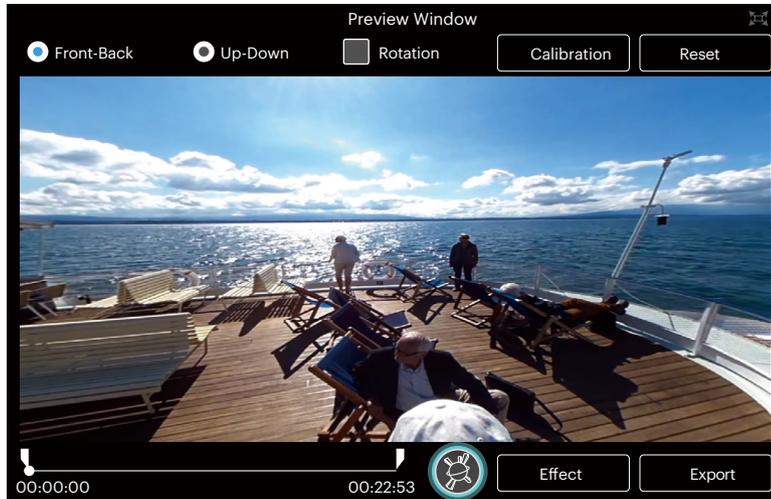
- 1) Video should be displayed in the form of frames in the timeline
- 2) Click  to  and de-synchronization the locking/stitching of two videos
- 3) Click or drag the dot on the progress bar of the video to search for a specific time/frame of the video
- 4) Click the frame to be specified as the start frame of the video segment, move the mouse cursor and stop on the thumbnail of desired frame; at this time, the thumbnail of the adjacent three frames will be automatically enlarged and displayed. You can also specify the start frame of zoomed-in video
- 5) After manual calibration is completed, you can click  to lock  once again and set the desired calibration effect



## Preview Window:

- **Adjust the image output direction**

Click [Front-Back] or [Up-Down] to calibrate the output direction of the images.



- **Rotate the image**

Click [Rotation] to rotate the image.

- **Calibration**

Click [Calibration] to take the following actions:

Click and select the videos to be calibrated and a yellow box will appear on the selected videos

Roll: drag  +0.0 or click  or  to rotate the angle of image

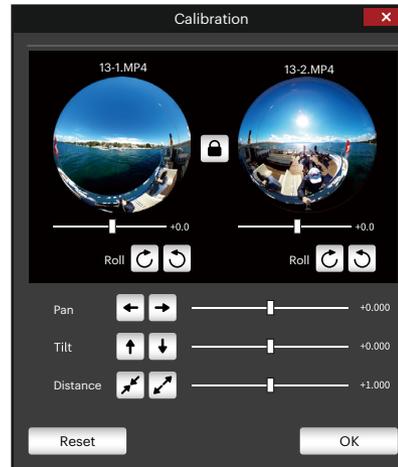
Click  to unlock  and only the selected images will be calibrated at this point

Click  to lock  and two images can be calibrated simultaneously at this point

Pan: drag  +0.0 or click  or  to calibrate the image angle horizontally

Tilt: drag  +0.0 or click  or  to calibrate the image angle vertically

Distance: drag  +0.0 or click  or  to zoom in or out of the range of the image display



Click [Reset] to restore the above settings to the initial state

Click [OK] to save the above settings. Click  to stop image calibration.

- **Trim**

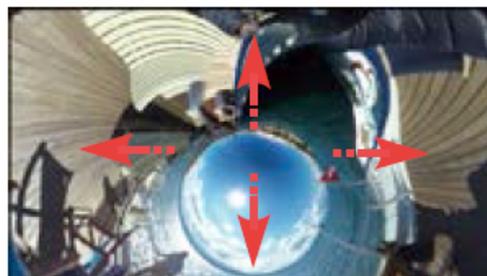
Drag the dot on the progress bar to preview the compositing effect. Drag the arrow on the progress bar to set the starting point and ending point of your video output.



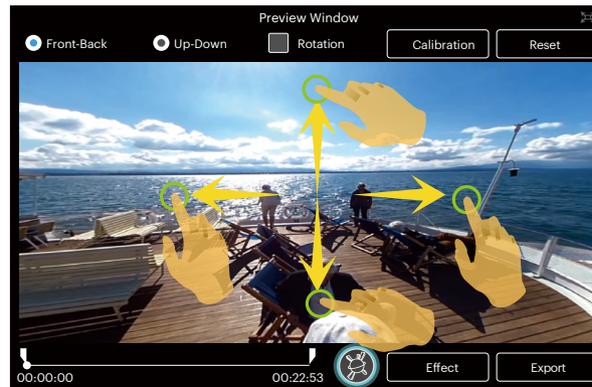
- **Little Planet**

Click the icon  to enter the preview window for Little Planet.

Scroll the mouse wheel to zoom in or out of the image and click the left mouse button to calibrate the angle of the image preview.

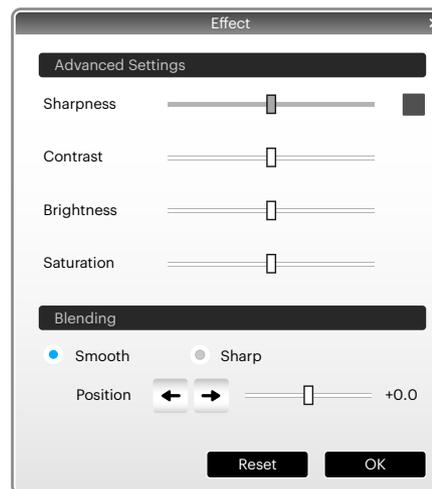


- In the [Preview Window], scroll the mouse wheel to zoom in or out of the image and click the left mouse button to calibrate the angle of the image output.



- **Effect**

Click [Effect] to enter the Effect screen. Drag the slider or click the icon to adjust the desired display effect of the image to achieve better composition. Click [OK] to save the desired effects.



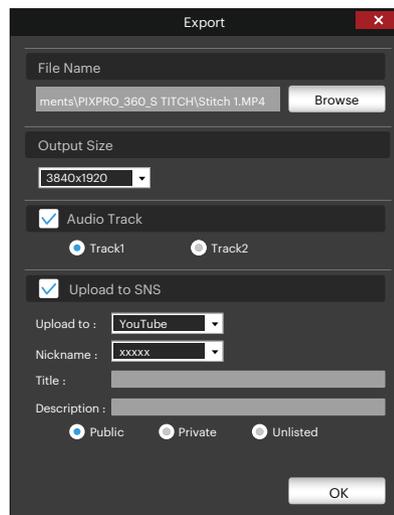
- **Reset & OK**

[Reset] to restore the image to its initial state.

Click [OK] to save the settings.

## Export the Stitched Image :

Click [Export] to reach the following settings.



- **File Name**

Name the newly composed video.

Click [Browse] to select a storage path.

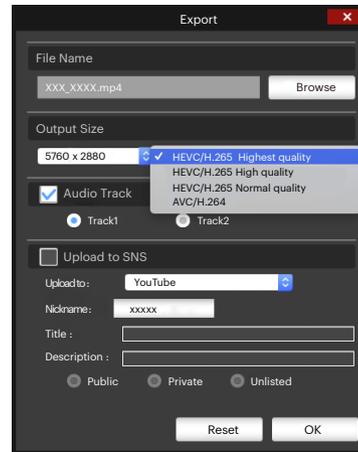
- **Output Size**

 The size of the newly composed video is restricted by the size of the original video: (O: Available X: Unavailable)

Photo Round (Dome) Mode	Original Size \ Output Size	7680 x 3840	5760 x 2880	3840 x 1920
	3680 × 3680	O	O	O
2880 × 2880	O	O	O	
3264 × 3264	O	O	O	

	Output Size	5760 x 2880	3840 x 1920	2880 x 1440	1920 x 960	1440 x 720	720 x 360
	Original Size						
Video Round (Dome) Mode	2880 × 2880	O	O	O	O	O	O
	2048 × 2048	O	O	O	O	O	O
	1920 × 1920	X	O	O	O	O	O
	1440 × 1440	X	X	O	O	O	O
	1072 × 1072	X	X	X	O	O	O
	720 × 720	X	X	X	X	X	O

 h.265 codec is only supported by Mac 10.13 High Sierra or higher.  
For Mac systems prior to 10.12 there is no support for recording 5.7K movie and h.265 codecs.



- **Audio Track**

Select output audio. Select [Track 1] to output the audio of video A; and select [Track 2] to output the audio of video B

- **Upload to SNS**

Click [Upload to SNS] to select shared platform  
Selectable videos: YouTube™

- **OK**

Click [OK] to export the stitched image and file

## >2 Open Project(s)

1. Click [Open Project(s)] in the first screen of STITCH or click [File] in the STITCH Interface. Then click [Open Project(s)] in the pop-up file menu window
2. Select the stored project file (.spvr) in the pop-up window and click on the [open file] button to enter the stitching screen of the project file



 If the two source files for stitching the project file fail to connect, and are missing or damaged after you click the [open file] button, you will need to re-select the new file for stitching and try the process again

3. Set the file (See Page 52 to 55 for explanations)
4. Click [Export] to share your photo/video to desired social networking software or the website on which you want to share.

 You can click [Save Project as (A)] in the pop-up file menu window to save it as a new [.spvr] format file.



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JK Imaging Ltd., 17239 So. Main Street, Gardena, CA 90248 USA

[kodakpixpro.com](http://kodakpixpro.com)