## How to start Facebook 360 degree live streaming with ORBIT360/4KVR360 camera.

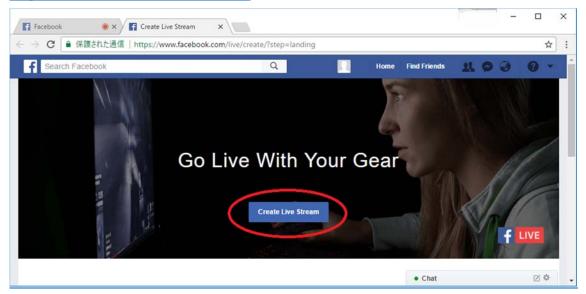
## Preparation for live streaming.

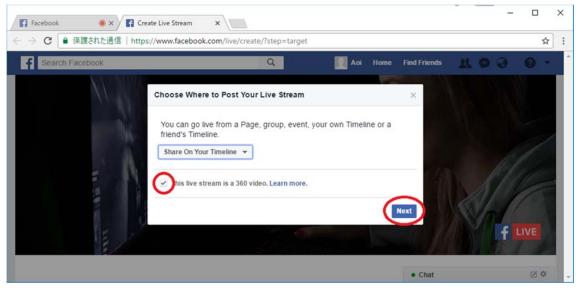
- 1. Windows / Mac PC (Recommend Window10 64bit or Mac OS 10.12.x.)
- 2. Live streaming software.
  There are some tools which can support Facebook live streaming. Please see the following page for reference.
  <u>https://www.facebook.com/help/799185466881268/?helpref=hc\_fnav</u>
  We use "OBS Studio" at this time.
  <u>https://obsproject.com/download</u>

https://obsproject.com/forum/resources/how-to-stream-to-facebook-live.391/

## Steps to start Facebook 360 live streaming.

- 1. Install "OBS Studio" to your PC.
- Change DV's USB connection setting to Web Cam mode.
   Power on DV and connect USB cable with PC.
   Wait for some minutes until USB driver installation is completed. (Windows OS will install USB Camera driver automatically.)
- 3. Open Facebook web site and login with your account. Go to the following page and click "Create Live Stream". https://www.facebook.com/live/create/





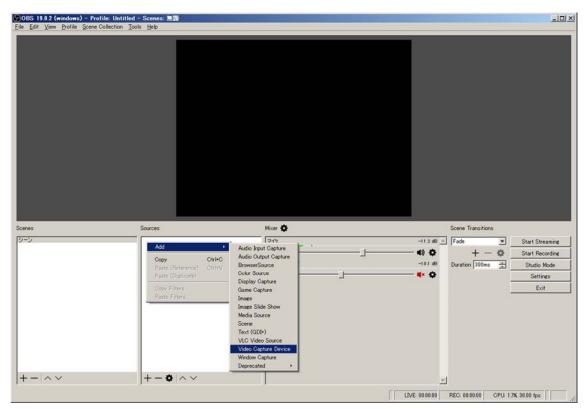
Select 360 video checkbox and click "Next" button.

Create Live Stream X		-		×
	ive/create/?targetid=100007231840251&step=create		☆	:
Search F Posting Live Stream on Your Timeline	×	0	0 -	^
What's on your mind?				
Basic	۵			
Video Title	OFFLINE	14		
360 VR Live streaming	If your video stream isn't working, make sure you copied the contents of these			
Video Game Ø	fields into your video streaming software's settings. Learn more. Secure connection (SSL)			
Tag a game (ex: Overwatch)	Server URL Ø	11		
	rtmp://live-360.facebook.com:80/rtmp/	£ 1	IVE	
	Stream Key 🕐			
	1884266091824434?ds=1&s_l=1&a=AThmGXF7sM1RE			
	your live video. For example, don't include bumpers, pre-roll, mid-roll or d content is clearly distinguishable from live content.			U
·£ (0)			Ø ¢	I.

Enter "Video Title" and copy "Stream Key" to your clip board. This "Stream Key" is necessary in next step 4.

Don't close this Facebook page.

4. Launch "OBS Studio".



Select "Video Capture Device" from right click menu of source setting area.

Greate/Select Source		<u>?</u> ×
· Create new		
4KVR360		_
C Add Existing		
I ✓ Make source visible		
I▼ Make source visible		. (
	OK Ca	ancel

Select "Create new" and enter source device title and click "OK" button.

Properties for '4KV	/R360'	<u>?</u> ×
Device	PD/PRO 4KVR360	•
	Deactivate	
	Configure Video	
	Configure Crossbar	
-	Deactively when not showing	
Resolution/FPS Type		•
Resolution		•
FPS	Match Output FPS	
Video Format	Any	•
YUV Color Space	Default	•
YUV Color Range	Partial	•
Buffering	Auto-Detect	•
	Flip Vertically	
Audio Output Mode	Capture audio only	•
	Use custom audio device	
	OK	icel

Select "PIXPRO 4KVR360" or "PIXPRO ORBIT360" as Device setting.

Select "Custom" as Resolution/FPS Type setting.

Select "1920x960" as Resolution setting.

Click "OK" button.

🚱OBS 19.0.2 (windows) - Profile: Unt			
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Scenes	Sources	Mixer 💠	Scene Transitions
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		715 -11.2 dB	Duration 300ms 🛨 Studio Mode
		↓ → ◆ ( <b>*</b>	Settings
		4KVR360 0.0 dB	Exit
+-!~~	+-•	(4) ¢	
		LIVE: 00:00:00	REC: 00:00:00 CPU: 2.9% 30.00 fps

Click "Settings" button.

(*) Settings			<u>?×</u>
General	Base (Canvas) Resolution		•
	Output (Scaled) Resolution		•
Stream		Bicubic (Sharpened scaling, 16 samples)	•
Output	Common FPS Values 💌	] 30	•
Audio		☐ Disable Aero	
Video			
Hotkeys			
Advanced			
		OK Cancel App	aly

Select "Video" setting.

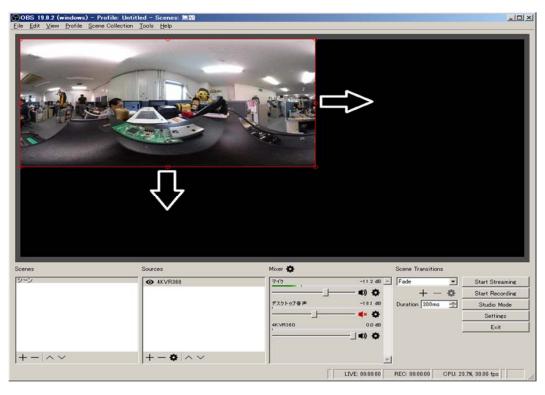
Enter "1440x720" in "Base (Canvas) Resolution" and "Output (Scaled) Resolution" setting. (Facebook's supporting input resolution is maximum 720 pixel in height.)

Settings		<u>?</u> ×
General	Stream Type Streaming S	ervices
Stream	Service Facebook Li	
Output	Server Default	Show
Audio		Show
Video		
Hotkeys		
Advanced		
		OK Cancel Apply

Select "Stream" setting. Select "Streaming Services" as Stream Type. Select "Facebook live" as Service. Paste "Stream Key" strings which is copied in step 3. Click "OK" button

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		デスクトゥブ音声 -18	Fade	Start Streaming
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		デスクトップ音声 -16 マイク -11 -11 -11 -11 -11 -11 -11 -11 -11 -11		Start Streaming Start Streaming Studio Mode Settings

Click "Start Streaming" button.

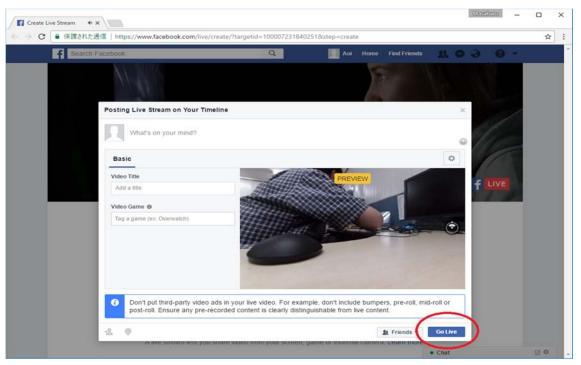






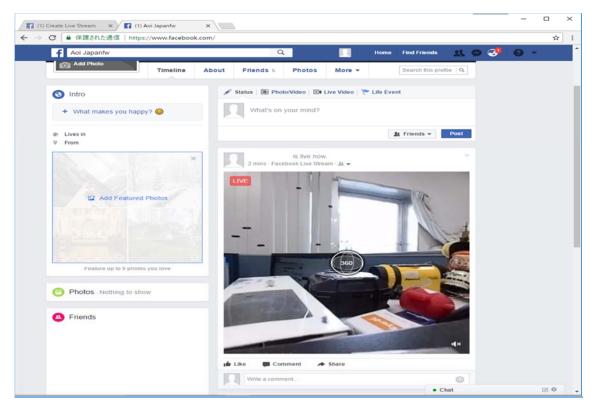
Stretch output live streaming video area to fit canvas size. (1440x720)

5. Go back to Facebook page of step 3.



"Go Live" button will change to available in a minute.

Click "Go Live" button to start live streaming.



Open your Facebook home page. Then you can see your 360 live streaming.