

foldio360 Control

User Guide

Version: 1.0.0

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Introduction - *About the Foldio360 Control*

Through the foldio360 Control application, you can shoot 360 images with your DSLR camera and control your Foldio360 Smart Turntable or Foldio360 Smart Dome from your computer. To begin controlling the turntable, all you need to do is connect the application with your turntable via Bluetooth. To shoot 360 images with your DSLR, make sure your camera is compatible with our turntable first, set your camera to the appropriate mode, input the settings (number of frames, rotate speed), and begin shooting!

Once you are done shooting, import the images onto the foldio360 Edit application to edit the 360 images using the various filters and functions like batch editing, crop, and watermark. You can export the images as PNG/JPG/GIF/MP4 and upload the images onto SPINZAM to create & view your interactive 360° image.



Feature Overview

- Basic mode for turntable control
- Advanced mode for turntable control
- Turntable parameter setting
- DSLR auto shutter support for 360 photography
- Delay time setting for DSLR shooting

Supported Devices & Recommended System Requirements

- Foldio360 Smart Turntable
- Foldio360 Smart Dome

Recommended Mac System Requirements:

OS	OSX 11 or higher (Big Sur)
BT	Bluetooth 4.0 (BLE) or higher

Download Guide

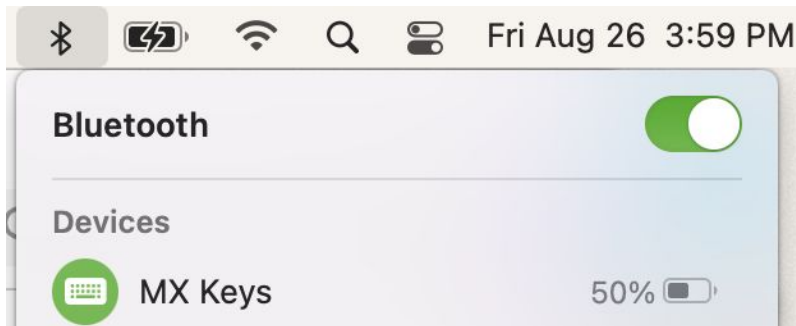
1. Visit the App Store
2. Search: “foldio360 Control”
3. Download!

Bluetooth Connection - *Enable Bluetooth*

foldio360 Control is an application that controls the turntable via Bluetooth. Therefore, it is necessary to connect the computer and the turntable device via Bluetooth. The turntable requires Bluetooth 4.0 (BLE) or higher. Most computers support it, but if it doesn't, you won't be able to control the device. For detailed connection procedure, please refer to the following.

Enable Bluetooth

Make sure your computer's Bluetooth is enabled before connecting your turntable. If it is not activated, please enable it. For Orangemonkie turntables using BLE technology, pairing with OSX is not required.



Bluetooth Connection - *Check Turntable Power*

Plug in the turntable/Foldio360 Smart Dome to a power source to turn it on. When the status indicator blinks, it is in normal standby mode.

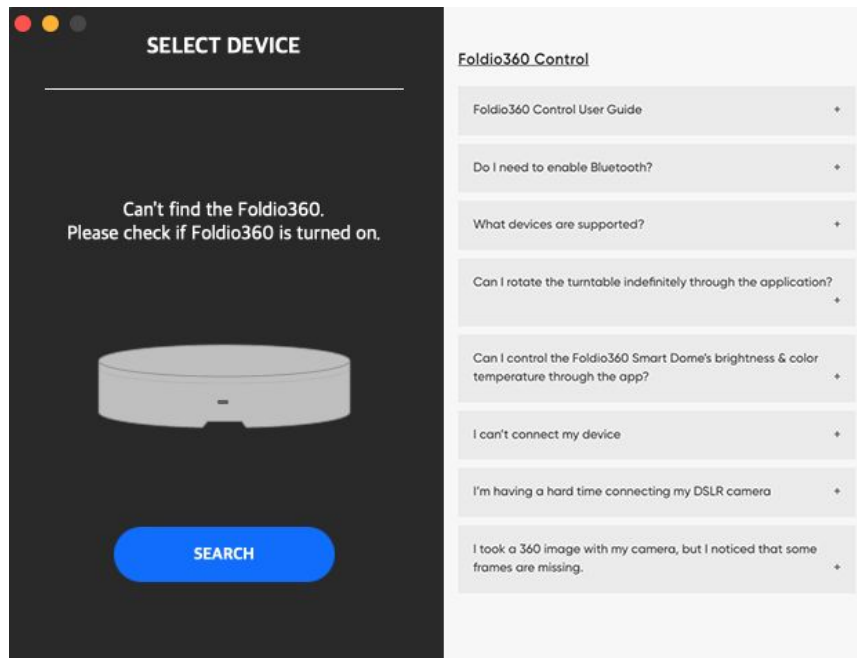


Bluetooth Connection - Launch Application

Launch the foldio360 Control application. When running for the first time, the app may request Bluetooth permission like below. When the screen appears, press OK to enable Bluetooth in the Control app.

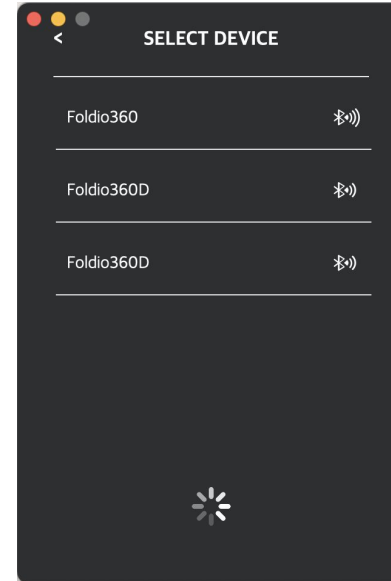


When the application is launched, the screen on the right is displayed. Click the "SEARCH" button to connect the turntable.



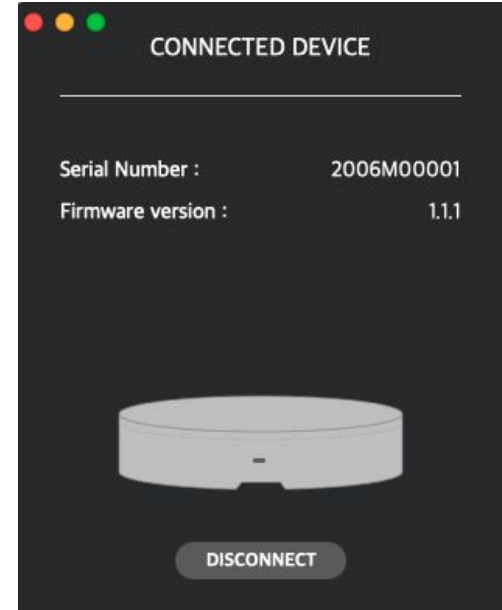
Bluetooth Connection - *Select Device*

Once the SEARCH button is selected, the screen will show a list of currently available devices. Click the device you want to connect to. If your device is not listed, recheck the previous steps. If the problem persists, unplug the device, wait at least 30 seconds, and plug it back in. Repeat the previous steps.



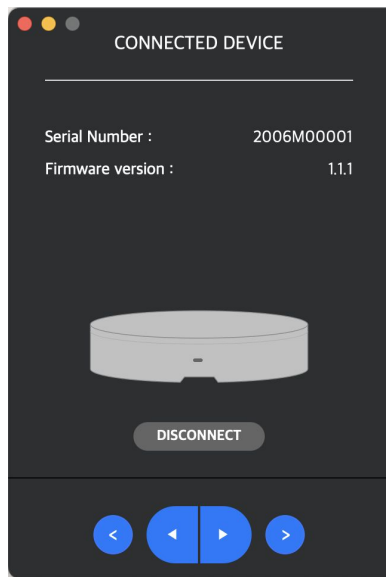
Bluetooth Connection - *Device Connected*





When the connection is complete, the following screen will appear. The serial number and firmware version of the product are displayed. If you want to connect another device or terminate the current connection, click the “DISCONNECT” button at the bottom of the screen.



Basic Controls

Once a device is connected to the application, under the “CONNECTED DEVICE,” you can press/hold the button to rotate the turntable left/right or set a continuous rotation to left/right. This function can be controlled with the 4 buttons at the bottom of the device display panel. For detailed operation details, please refer to the below table.

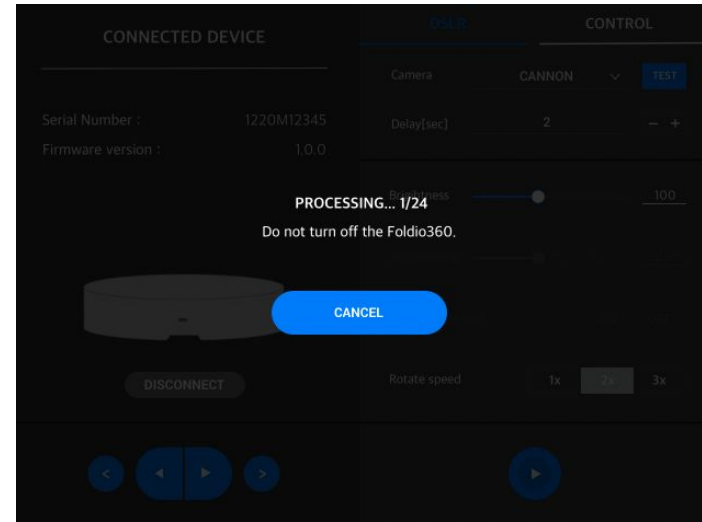


Function	Explanation
 LEFT	The turntable rotates to the left while the button is held down with a mouse. Rotation ends when the button is released.
 LEFT infinity	Click to rotate the turntable continuously to the left. In the absence of a following command, the turntable will rotate indefinitely. End the rotation by pressing the “STOP” button or the “ESC” key.
 RIGHT	The turntable rotates to the right while the button is held down with a mouse. Rotation ends when the button is released.
 RIGHT infinity	Click to rotate the turntable continuously to the right. In the absence of a following command, the turntable will rotate indefinitely. End the rotation by pressing the “STOP” button or the “ESC” key.

User Interface

The Foldio360 Control app is designed to control the turntable with OSX. The buttons are arranged to support various commands. When a button is clicked, the turntable is designed to respond immediately. In the case of a temporary action (such as holding down a button to rotate the turntable left or right), the display screen does not change.

In the case of an action that requires time, a processing screen (right) is displayed to prevent duplicate execution of actions. No other actions can be performed while this screen is displayed. The processing screen will disappear when the corresponding action is completed, and can be canceled by clicking "CANCEL" or "STOP" or inputting "ESC" during operation.



DSLR Tab

Orangemonkie's turntables use an IR (infrared) sensor to control DSLR cameras. Before using this function, please check the compatibility of your camera and refer to the camera manufacturer or turntable manual to set the camera you wish to use.

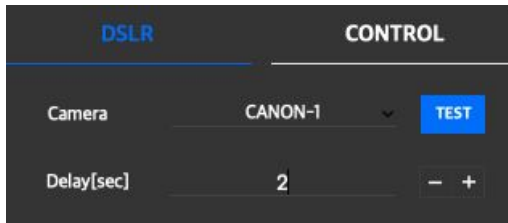
Supported Camera Brands: Canon, Nikon, Pentax, and Sony

Compatibility List: <http://spinzam.com/helpcenter/en/knowledge-base/02-dslr-camera-compatibility/>

Recommended modes:

- Canon, Nikon, Pentax: Remote mode (2 sec delay or 10 sec delay mode)
- Sony: Continuous shooting mode

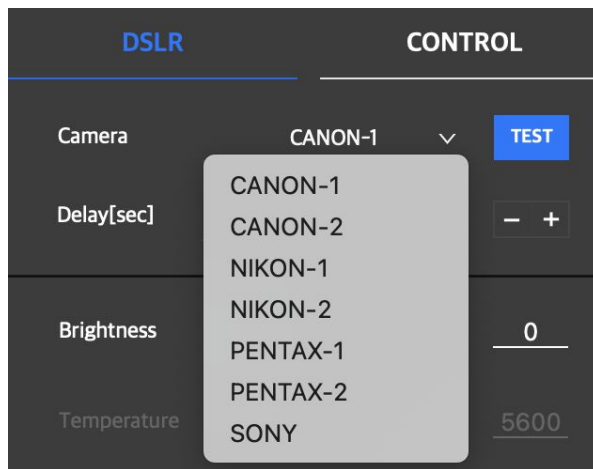
Click the DSLR tab of the Foldio360 Control app and the following screen is displayed.



DSLR Tab - Camera

Select the brand of the camera you want to shoot with. Orangemonkie's turntables transmit a signal to the camera through an IR sensor, so make sure to check the compatibility of your camera before operation.

Click the TEST button to test the connection of your camera. A test shooting signal will be sent to the camera. If the camera shutter doesn't work, check the camera settings and app settings again. If the problem persists, refer to the Troubleshooting Guide at the end of this user guide.



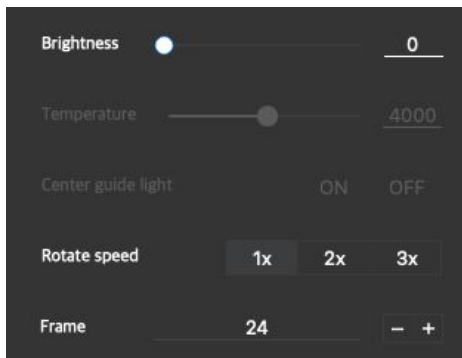
DSLR Tab - Delay

After shooting, the images will be stored on the camera's SD card. The shooting time may vary depending on the SD card's writing speed and image capacity. If the image storage speed is slower than the turntable rotation speed, increase the Delay time to ensure sufficient storage time.

DSLR	CONTROL	
Camera	CANON-1 ▼	<input type="button" value="TEST"/>
Delay[sec]	5	− +

DSLR Tab - Parameter Settings

Set the parameters of the turntable. The parameter settings are as below. Please refer to the table for detailed parameter settings.



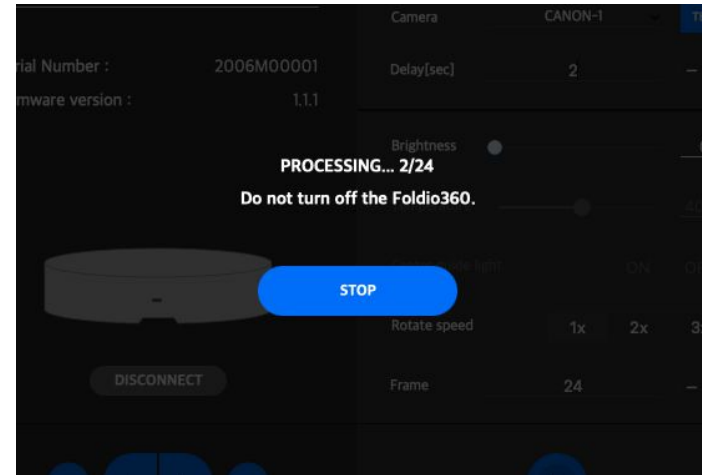
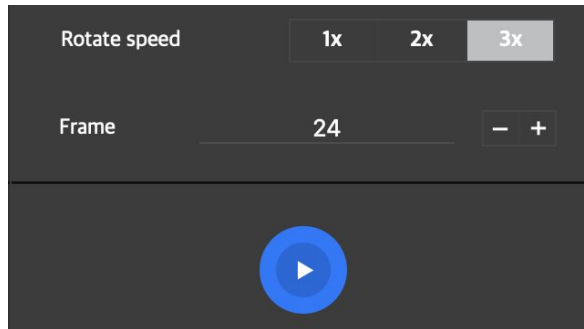
Parameter	Supported Devices	Explanation
Brightness	<u>Foldio360 / Foldio360D</u>	Foldio360: Adjusts the brightness of the Halo Edge light. <u>Foldio360D</u> : Adjusts the brightness of the LED light inside the studio.
Temperature	<u>Foldio360D</u>	Adjusts the color temperature of the LED lights. This feature is only available for the Foldio360 Smart Dome.
Center guide light	<u>Foldio360D</u>	Adjusts the center point indicator light. This feature is only available for the Foldio360 Smart Dome.
Rotate speed	<u>Foldio360 / Foldio360D</u>	Adjusts the rotation speed of the turntable.
Frame	<u>Foldio360 / Foldio360D</u>	Set the number of frames to shoot. Available number of frames: 24, 36, and 48.

**Foldio360: Foldio360 Turntable*

Foldio360D: Foldio360 Smart Dome

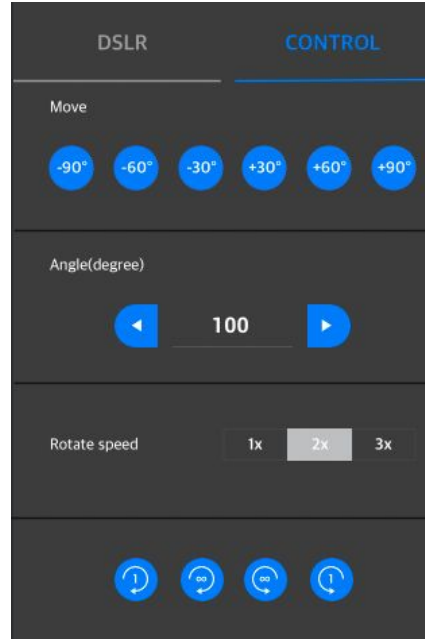
Shooting 360 Image with DSLR

Once you are finished with the settings, press the “RUN” button to start shooting. The turntable will rotate and stop automatically while your camera shoots at certain points of the rotation. No other actions can be performed while shooting. If you want to cancel the current shooting, click the “STOP” button on the processing screen or press the “ESC” key.



Control Tab

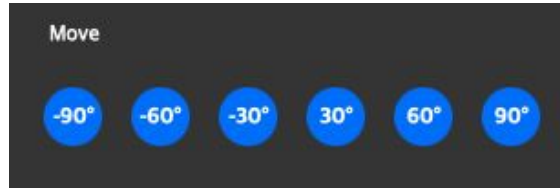
The Foldio360 Control app can also control the turntable in various ways. If you click the CONTROL tab, the following screen will be displayed.



Control Tab - Move

The Move section has shortcut buttons for frequently use angles. Click the button to rotate the turntable to the corresponding angle. Negative degrees rotate the turntable to the left. The positive degrees rotate the turntable to the right. The Move functions supports rotation from the current position to the specific degrees, such as 90°, 60°, and 30°.

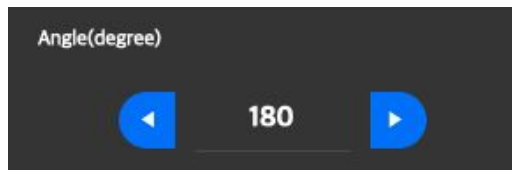
During the rotation, you can undo the action by pressing the “STOP” or “ESC” key.



Angle & Rotate Speed

Angle

Enter the desired angle and click the Left and Right arrows to rotate the turntable in that direction to the set angle.



Rotate Speed





Set the rotation speed. This function is the same as the Rotate speed on the DSLR tab.



Rotate

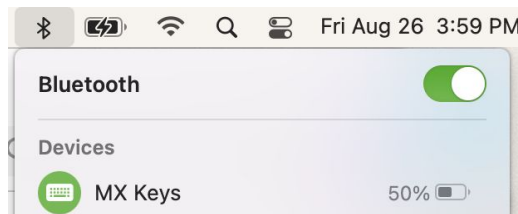
Press the Rotate button to rotate the turntable. The rotation speed follows the set speed. There are a total of 4 modes depending on the direction and type of rotation. For more information on the modes, please refer to the following table.



Function		Explanation
	CW once	Rotates turntable clockwise once and stops.
	CW infinity	Rotates turntable clockwise infinitely. If you want to stop the rotation, click "STOP" on the processing screen or type "ESC."
	CCW infinity	Rotates turntable counterclockwise infinitely. If you want to stop the rotation, click "STOP" on the processing screen or type "ESC."
	CCW once	Rotates turntable counterclockwise once and stops.

Troubleshooting Guide - *Cannot Find Device*

1. Make sure the Foldio360 or Foldio360 Smart Dome is powered on. In normal standby mode, the blue indicator will blink
2. If the indicator does not blink, it may be connected to another device. Terminate the connection from other apps in use or turn off the device, wait at least 30 seconds, and then connect the power again. Check the indicator behavior of the device as described in the previous step.
3. Check the Bluetooth status of the system. The turntable is a Bluetooth-enabled device and must have Bluetooth enabled in the system.



4. Make sure you have enabled access to the Bluetooth when launching the app for the first time.
5. If you did not see the window to enable access to the Bluetooth, go to System Preferences -> Security & Privacy -> Bluetooth. Add the Foldio360 Control app manually. The app should be in your Applications folder.

Troubleshooting Guide - DSLR Camera Is Not Connected

1. Make sure your camera brand is one of the following: Canon, Nikon, Pentax, Sony
2. Check the compatibility of your camera (has IR sensor, supports IR remote)
Compatibility list: <http://spinzam.com/helpcenter/en/knowledge-base/02-dslr-camera-compatibility/>
3. Make sure that your DSLR's "Drive mode" is set to IR "remote mode" (Ex: 2 sec delay) For Sony cameras, it can be set as continuous shooting mode.



4. Make sure there are no objects blocking the IR signal between the DSLR and the turntable. IR is a type of light, and unlike electromagnetic signals such as Bluetooth, signals can only be received when the field of vision is secured.
5. Keep your DSLR and turntable at an appropriate distance. If it is too close, the IR signal may not be received correctly. In this case, move the DSLR a little further away from the turntable.

Troubleshooting Guide - *Some Frames are Missing*

1. If the DSLR is able to shoot more than 1 frame, it is safe to say that the IR function is working normally.
2. DSLRs require some time to store high-resolution images. If the turntable's rotation speed is faster than the storage speed of the image, some frame shots may be missed. Refer to the below image and set the delay time appropriately.

