CINETICS

AXIS360

Quick Start Guide

Basic set-up for your Axis360 system

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Parts







1 | Setup up Slide

See it in video here: https://vimeo.com/90878151

Slider Assembly (The slider comes partially assembled)

Step 1. First take your slider and un-fold the outrigger legs by loosening the knobs. Position the legs so

your slider is standing. For ideal balance, you don't want legs too narrow or too spread apart



- Step 2. Remove end caps from rails (Figure 1)
- Step 3. Remove outrigger leg from rails (Figure 2)
- Step 4. Attach additional rails, screw together all the way
- Step 5. Move rail brace to the center where the rails connect (Figure 3)
- Step 6. Replace outrigger leg and end caps

REMEMBER

Be sure to push outrigger legs all the way on, this is important for putting on the belt





Figure 1.

Figure 2.

1 | Setup up Slide cont.

Cart Overview

The side with the raised Cinetics lettering is the brake, tighten or loosen to engage or disengage brake. The other side is the tensioner, tighten to make sure it is tight enough to keep the weight of the camera level on the rails without tightening too much to restrict the slide.



Attach the motor drive belt

See it in video here: https://vimeo.com/121074865

TIP: It is important that the belt is taut and without any slack

Step 7. Take one end of the belt and loop it under the cart so you won't have to thread it through later (Figure 4)

Step 8. Push the belt loop down with your finger and lock into the cart hook. You want the grooved side of the belt facing inward. Pull tight so there is no extra room around the hook (Figure 5)

Step 9. Put on brake to stop your cart from moving

Step 10. Loosen pulley tensioner and bring all the way forward (Figure 6)



Figure 4.





Figure 5.

Figure 6.

1 | Setup up Slide cont.

Attach the motor drive belt cont.

Step 11. Loop the belt around the pulley with the grooved side inward for grip (Figure 7)

Step 12. Thread belt under the cart and loop belt around the motor on the other end of the slider (Figure 8)

Step 13. Release brake on the cart by loosening the brake

TIP: To attach the other belt loop you can use your hand to push the cart toward the belt loop you are hooking on, this will reduce any slack in the belt (Figure 9)

Step 14. Push the other belt loop down over the hook (Figure 10)

Step 15. Tighen pulley tensioner by pushing it away from the cart, then secure it by tightening the knob; The belt should be taut (Figure 11)



Figure 7.



Figure 8.



Figure 9.



Figure 10.



1 Setup up Slide cont.

Attach Ballhead to Cart

Step 16. Attach ballhead, you can use the one we provide or your own (Figure 12)

Step 17. Under cart use the silver screw to secure ballhead to cart, tighten with Hex Key (Figure 13)

Step 18. Screw Clamp onto ballhead and arca-style plate into your camera



Connect Motor to Controller

Step 19. Plug motor cable into Motor Port (Figure 14)

Step 20. Snap motor onto the Male Quick Connect piece next to the motor (Figure 15)

TIP: Snap the Quick Connect pieces together by first positioning them together at an angle then pushing downward and forward like popping on a bottle cap (Figure 16)

Step 21. Place camera on ballhead

Step 22. Connect camera cable to camera



Figure 15.



Figure 16.

1 | Setup up Slide cont.

Attach Slider to Tripod(s)

You can mount the Axis360 on any tripod by connecting it to the rail brace or outrigger legs. The Rail Brace has a 3/8"-16 thread and the Outrigger Legs have 1/4"- 20 threads. The Slider can be mounted horizontally or vertically.



Figure 17.



Figure 18.



Two Axis360 vertical slider setup on tripod

2 | Setup up Pan

See it in video here: https://vimeo.com/101748664

Parts Needed:

Arca-style plate Motor Ballhead Controller Tripod

There are two preferred setup options:

Option 1. Attachment for Tripod

Step 1. Attach Axis360 Motor to tripod (Figure 19 & 20)

Step 2. Place ballhead on Axis360 Motor and attach the clamp to it (Figure 21)

Step 3. Attach arca style plate to camera and slide into clamp

TIP: Make sure clamp is securely tightened

Step 4. Connect cable to controller Camera Port (Figure 14)

Step 5. Snap the controller onto the motor using the quick connect pieces (Figure 15, 16 & 21)



Figure 19.





Figure 21.

REMEMBER

For heavier cameras we recommend a sturdy ballhead. You can attach a clamp directly onto the motor (instead of the ballhead).

Figure 20.

2 | Setup up Pan cont.

See it in video here: https://vimeo.com/97264416

Option 2. Attachment for Slider

This set up is preferred for mounting on the slider for a SLIDE AND PAN though it also works on a tripod.

Cinetics Quick Connect Pieces

Male Quick Connect

Threaded Male Quick Connect



Female Quick Connect

Step 1. Separate ballhead from Male Quick Connect (Figure 22 & 23) and set aside

TIP: Make sure the ballhead grip is un-tightened. It's easier to un-snap the piece when the ballhead is connected to something such as a tripod

Step 2. Screw Threaded Male Quick Connect into Motor and snap ballhead onto that connector (Figure 24)



Figure 22.

Figure 23.





2 | Setup up Pan cont.

Option 2. Attachment for Slider cont.

- **Step 3.** Remove Female Quick Connect from controller (Figure 25)
- **Step 4.** Unscrew ballhead and remove ball. Screw ball into the back of the controller (Figure 26)
- **Step 5.** Take controller, now with ballhead ball, and mount controller into ballhead clamp (Figure 27)
- Step 6. Mount arca-style clamp onto motor thread and thread arca-style plate into your camera
- **Step 7.** Connect motor cable to controller



Figure 25.



Figure 26.



Figure 27.



Figure 36. Assembled Pan setup Option #2 mounted on slider cart

3 | Setting up Tilt

See it in video here: https://vimeo.com/97264416

Parts Needed:

Motor L-Bracket (2) Clamp (2) Controller Hex Key

- Step 1. Mount motor on short side of L-Bracket, tighten with hex key (Figure 28)
- Step 2. Screw Threaded Male Quick Connect into bottom of L-Bracket (Figure 29)
- **Step 3.** Mount clamp to motor thread (Figure 30)
- Step 4. Attach short side of 2nd L-Bracket to clamp and tighten (Figure 30)
- Step 5. Snap controller into connector
- Step 6. Connect motor cable to controller





Figure 29.



Figure 30.

Figure 28.

3 | Setting up Tilt cont.

Step 7. Put ballhead with clamp on tripod. Slide the long end of the L-Bracket supporting the controller into ballhead clamp and securly tighten clamp (Figure 32)



Figure 31.



REMEMBER

When panning or tilting, balancing is a critical procedure in making sure that Axis360 works correctly. Balancing simply requires that the camera's center of gravity is located as close as possible to the axis of rotation. Position the L-bracket so that the camer's center of gravity is located near the axis of rotation.



Finding a camera's center of gravity must be acquired empirically (the center of the lens may not necessarily be the center of gravity

4 Setting up Pan and Tilt (2 Axis System)

Parts Needed:

Assembled Pan Setup Option # 1 (Page 8) Assembled Tilt setup (Page 11) Sturdy Tripod

Step 1. Place Pan setup #1 on tripod, remove ballhead and attach clamp directly to motor (Figure 33)Step 2. Take assembled Tilt Setup and slide the long end of the L-Bracket supporting the controller into the motor clamp. Securly tighten clamp (Figure 34)







Figure 34.



5 | Slide and Pan (2 Axis System)

See it in video here: https://vimeo.com/97264416

Parts Needed:

Assembled Slider setup (Page 3) Assembled Pan setup Option #2 (Page 9)

- Step 1. Assemble Slider setup (Figure 35)
- **Step 2.** Assemble Pan setup #2 and place directly onto the cart, motor down (Figure 36)
- **Step 3.** Screw in cart thread to bottom of Axis360 motor and tighten with Hex Key





Figure 36. Assembled Pan setup Option #2 mounted on slider cart

6 Setting up Slide, Pan and Tilt (3 Axis System)

See it in video here: https://vimeo.com/97264416

Parts Needed:

Assembled Slide setup (Page 3) Assembled Pan setup Option #2 (Page 9)

- Assembleed Tilt setup (Page 11)
- Step 1. Assemble Slider setup (Figure 37)
- Step 2. Place Pan setup #2 directly onto the cart, motor down (Figure 38)
- Step 3. Screw in cart thread to bottom of Axis360 motor and tighten with Hex Key
- Step 4. Take assembled Tilt Setup and slide the long end of the L-Bracket supporting the controller

into the motor clamp. Securly tighten clamp (Figure 39)





Figure 38. Assembled Pan setup Option #2 mounted on slider cart





7 | Quickstart Controller Settings

See it in video here: https://vimeo.com/127733270

1 AXIS PAN/TILT/SLIDE TIMELAPSE

We recommended that you first read the CineMoco Instructional Manual for a more detailed breakdown of the controller menu functions.

Menu Page Settings:

There are four sections of the menu: GEN (General), CON (Controller), MTR (Motor), CAM (Camera).

To scroll through each section just press the Menu button

When shooting a timelapse, make sure your camera is set to Manual Mode. Auto Focus is not recommend as it will usally take too long to focus between shots.

- Step 1: Plug your camera cable into the controller and camera
- Step 2: Press menu button so GEN is selected
- Step 3: Use the arrow keys to move up and down in the menu
- **Step 4:** Highlight over Record and use the right arrow key to change the mode to Timelapse
- Step 5: Move down to Setup and use the right arrow key to change the setup to Keyframes
- Step 6: Leave Scrl Ramp at default
- Step 7: Press MENU to move over to the MTR menu tab
- Step 8: Select your Motor Type (Slider for Slide, Pan/Tilt for Pan or Tilt)
- OPTIONAL: Select Speed to change the Motor speed, choose from Low, Medium, or High
- Step 9: Press MENU to move over to CAM menu tab
- **Step 10:** Highlight over Cam Type and press the right arrow to select your camera type

Step 11: Highlight over Fire Test Shot and hit the right arrow to take a picture and make sure your camera is connected



7 | Quickstart Controller Settings cont.

Main Page Settings

Press the Home/Play button. This is where you can customize your timelapse settings **Step 1:** First set your End Point

- Moving the right or left arrow will spin the motor right and left
- Find the place you want your timelapse to end
- To set End Point scroll down to Set End Point with the down arrow then hit the right arrow button
- There will now be a check mark next to Set End Point

Step 2: Do the above to set your Start Point

You can select Go to Start or Go to End by pressing the right arrow. This will show you the positions you set for your start and end. If needed, you can make any adjustments; just make sure you select either Set Start Point or Set End Point again by hitting the right arrow key to confirm

Step 3: Scroll down to Record Time

- Choose Record Time by pressing the right and left arrow keys to adjust the number
- Step 4: Set Playback Time
 - Press the right and left arrow keys to adjust the number
- Step 5: Choose Exposure
 - Press the right and left arrow keys to adjust the number

REMEMBER

Exposure should always be faster than the interval time so that camera has time to shoot before the next movement

Step 6: Choose PlayB FPS (Playback Frames Per Second)

- This will change the desired number of photos
- Generally 24 FPS

Step 7: Choose Move Type

- <u>S-M-S</u> (shoot-move-shoot) stops to take a photo, moves, stops to take a photo, moves and so on..
- Continuous never stops moving while shooting the photos

7 | Quickstart Controller Settings cont.

Main Page Settings cont.

When you are ready press the play button. On the screen you will see how many photos are going to be shot, and as the Controller begins shooting, you will see how many photos it has shot so far. Pressing play will end the timelapse.

General Settings:

Exposure: a good place to start is at 1.0s but you can change it to what you need depending on your environment. This setting needs to be longer than your camera exposure setting so the camera does not move while a photo is being fired during a S-M-S (shoot-move-shoot) mode. Setting your camera to Bulb Mode enables this setting to control the camera's exposure time, instead of just triggering it.

Record Time: 01:00:00s (for a 1 hour timelapse)

PlayB Time: 0:30s (desired video playback time).

Move Type: S-M-S (camera shoots, camera moves, camera shoots)

PlayB FPS: 24 fps

Ramp: Default 5%