



orcaVUE

XL User Manual





WARNING

READ BEFORE USE

- * IMPROPER USE OR FAILURE TO FOLLOW SAFETY PRECAUTIONS FOR THIS PRODUCT CAN RESULT IN DAMAGE TO EQUIPMENT OR PROPERTY, SERIOUS PERSONAL INJURY, OR DEATH
- * OPERATORS MUST ENSURE THAT USERS AND SPECTATORS STAND CLEAR OF THE ARM RADIUS AT ALL TIMES (A MINIMUM OF 3 FEET IS RECOMMENDED). THE USE OF STANCHIONS AND/OR OTHER BARRIERS TO ENFORCE THIS LIMIT IS ADVISED
- * SUBJECTS MUST TAKE THEIR PLACE ON THE ORCAVUE PLATFORM BEFORE THE DEVICE IS TURNED ON AND WAIT UNTIL THE ARM HAS COMPLETELY STOPPED BEFORE STEPPING OFF
- * **A LOSS OF BALANCE CAN RESULT IN FALLING FROM PLATFORM AND POSSIBLY SERIOUS INJURY AND/OR DEATH. THEREFORE, SUBJECTS MUST NOT BE UNDER THE INFLUENCE OF DRUGS OR ALCOHOL OR BE OTHERWISE IMPAIRED.**
- * OPERATORS MUST BE 18 YEARS OLD OR OLDER

NOTE:

- * DO NOT exceed the recommended maximum weight for camera and accessories of ten pounds or set the unit's speed to more than 60% when using the unit in a fully-loaded capacity
- * The OrcaVue XL holds a maximum of 6 people
- * Only use on a level surface
- * The OrcaVue Gala is intended for use with cameras such as the iPhone, iPad, and GoPro that include internal video stabilization. Videos shot using cameras without these capabilities may demonstrate some shakiness caused by participants moving about the platform

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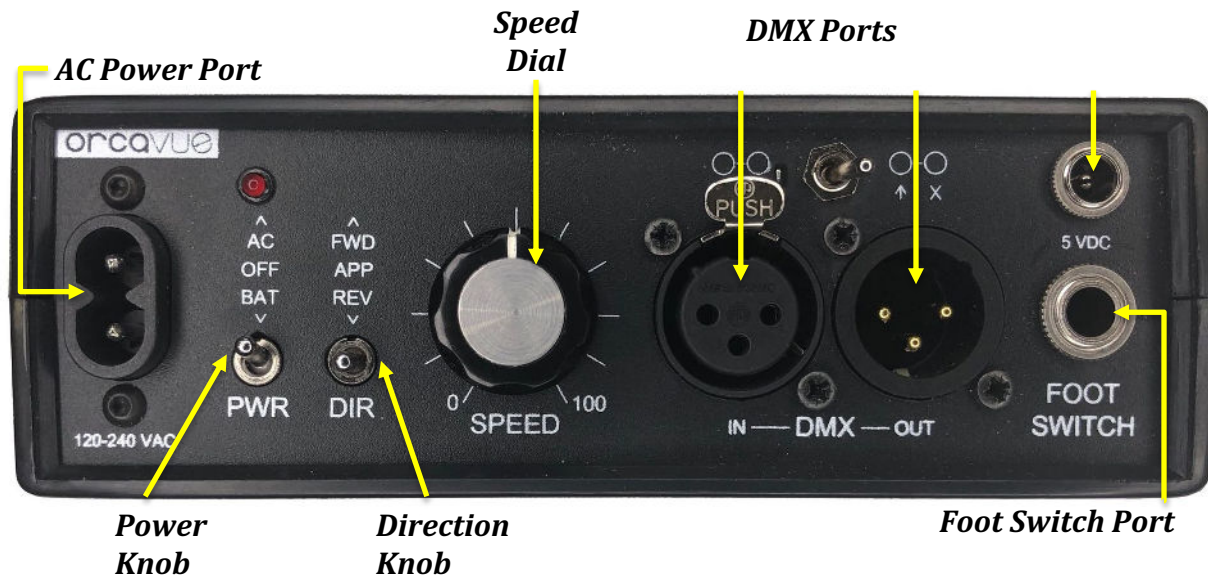
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1. Controller (Figure 1)



1.1 Unit Power

1. The Power switch (PWR) controls the power to your unit, and has three positions: AC, OFF and BAT (**figure 3**):
 - Use the up position (AC) when you are powering the unit using AC power, typically from a wall outlet.
 - Use the down position (BAT) when you are powering the unit from a V-mount battery. Note that in order to use this option, your unit must be equipped with the v-mount arm-drive battery option.
 - Use the middle position (OFF) when you wish to cut power to the unit.
2. If using AC power, plug the AC power cable (**figure 2**) into the AC power port (**figure 3**). The red light above the PWR knob will be lit/on, if the unit is successfully being powered:



Figure 2



Figure 3

1.2 Camera Arm Direction

1. The Direction switch (DIR) controls the direction that the camera arm swings, and has three positions: FWD, APP, and REV (**figure 3**):
 - The up position (FWD) spins the camera arm in a clockwise direction
 - The down position (REV) spins the camera in a counter-clockwise direction
 - The middle position (APP) allows the unit to be controlled by a device running an app with built-in OrcaVue integration

1.3 Camera Arm Speed

1. The speed dial (SPEED) controls the speed at which the camera arm spins.
 - The white mark on the speed dial indicates the arm rotation speed (0-100) that the unit is currently set to. This range roughly corresponds to 6-30 RPM.
 - **NOTE:** The speed dial only works when the DIR switch is set to FWD or REV. If the DIR switch is set to APP, the speed is controlled from within a compatible application.

1.4 DMX Ports

1. The DMX ports enable DMX devices such as fog or confetti machines to be synchronized with the start of the arm rotation so that the resulting videos capture the device's effects at the optimum moment. The DMX address assigned to the device determines the timing and may be between 1 and 59. Initially, when the unit is off, 0 is sent to all addresses. When the unit is turned on, the first digit determines the length of the delay (in seconds) before a value of 255 is sent to that address; the second digit sets the duration (in seconds) during which a 255 value is sent. A device with an address of 46, for example, would turn on four seconds after the arm starts and remain on for six seconds.

1.5 Foot Switch Pedal

1. The Foot Switch Pedal is a wired solution to turn the OrcaVue unit ON or OFF.
 - Simply plug the foot switch cord into the Foot Switch Port (**Figure 4 & 5**) and ensure that the controller box has power (red light is on).
 - The Foot Switch Pedal will not work if the controller box is not powered.
 - Place the Foot Switch Pedal on the floor, so that the rubber grip is on the bottom (**Figure 6**).
 - The pedal only requires one tap/step to turn the unit on or off. There is no need to hold your foot down on the pedal to keep the unit on.



Figure 4



Figure 5



Figure 6

1.6 Wireless Remote

1. The OrcaVue remote provides a wireless means for turning your OrcaVue unit ON or OFF (**Figure 7**).
2. There is no need to plug anything in. Simply make sure that the controller box has power and press the remote button to Start or Stop your OrcaVue unit. You do not need to hold it down.



Figure 7

2. Camera Arm

2.1 Securing the Camera Arm Base

1. Unfold the camera arm by loosening the thumbscrew and pulling out the silver positioning pin at the pivot point (**Figure 8**).
2. The silver positioning pin is placed behind the arm and determines its angle. Place the pin in a hole that corresponds to your desired position.
3. Allow the arm to rest against the silver pin and then firmly tighten the thumbscrew to hold arm in a fixed position.
4. In **Figure 9**, remove the thumbscrew of the square horizontal tube and slide Camera Arm onto the silver square bar to attach arm to unit. Adjust to the desired length, reinsert thumbscrews and tighten.



Figure 8

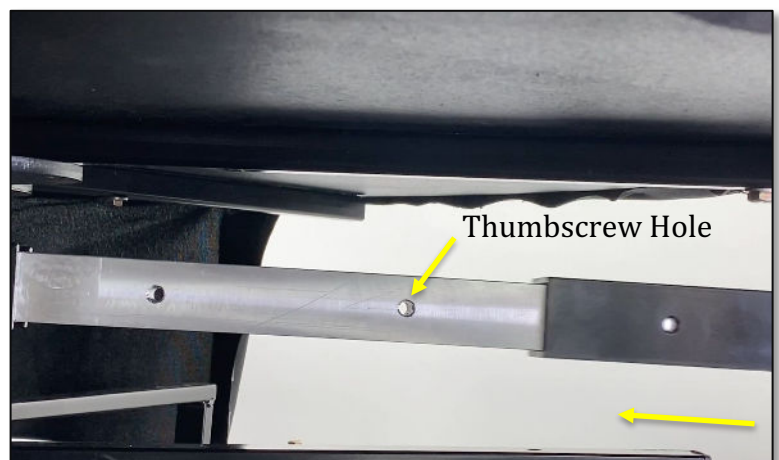


Figure 9

2.2 Camera Shoe Mount

5. Attach your desired camera to the removable camera shoe (**Figures 10 & 11**) by screwing the bolt protruding from the shoe into the camera. *Note: If you have a compatible mount that can be clamped directly by the camera shoe holder, this step is unnecessary.*

6. Attach the camera and shoe to the arm mount by loosening the silver nob so that the mount becomes wide enough to accommodate the shoe. **(Figure 12).**



Figure 10



Figure 11

7. Tighten the silver nob to firmly connect the shoe into the mount. **(Figure 13).**



Figure 12



Figure 13

2.3 Camera Arm Height – 1st Extension

1. Adjust the height of the camera arm by removing the bottommost thumbscrew on the OrcaVue XL camera arm (**Figure 14**). Telescope the tube all the way up until you see the thumbscrew hole (**Figure 15**). Insert and tighten the thumb screw into the upper portion of the arm (**Figure 16**).



Figure 14



Figure 15



Figure 16

2.4 Camera Arm Height – 2nd Extension

1. Adjust the final height of the camera arm by removing the upper most thumbscrew in the middle section of the camera arm (**Figure 17**). Telescope the tube up or down and select one of the seven available thumbscrew holes closest to your desired height as shown in **Figure 18**. When the appropriate hole is visible, reinsert and tighten the thumbscrew (**Figure 19**).



Figure 17



Figure 18



Figure 19

2.5 Counterweight System

1. The purpose of the counterweights (**Figure 20**) is to ensure that the camera arm is balanced and spins smoothly. If there is a large imbalance, you may notice inconsistent rotational speed or a wobble during rotation of the camera arm. Weight imbalances should be avoided because they place unneeded stress on the rotation mechanism and in the most severe instances could cause damage to the unit. The following four factors determine the need for counterweights; an increase in any of them will result in an increase the amount of counterweight required:
 - Camera weight
 - Camera distance from center of unit
 - Camera height
 - Rotation speed
2. Note that the four five-pound weights supplied with the unit are sufficient for cameras and accessories weighing less than ten pounds (total) when mounted with the vertical and horizontal arms fully extended and set at an angle of roughly 110 degrees while running the unit at a speed of 60% or less. If you need to exceed one of these parameters, reduce another.
3. When first mounting camera and accessories, test your setup at a slow speed and then gradually increase speed to ensure that system does not become unbalanced.



Figure 20

3. Arm Support Mode

3.1 Isolation Mode

The OrcaVue XL has the ability to completely isolate the camera arm from the platform by using what is known as 'Isolation Mode.' This setup is effective when using a camera without stabilization, and the subject is creating large amounts of movement on the platform causing the camera arm to wobble or shake. When using this mode, it is very important to use the counter weights and to limit the arm speed and weight of camera to that which can be balanced by the counter weight system. To enable Isolation Mode, do the following at six points around the base as shown in **Figure 21**:

1. Rotate the bolt 90 degrees upwards, slide it inwards so that it is in the open or unlocked position and then rotate it back down (**Figure 22**).
2. Once all six latches are in the open position, the camera arm legs should be free to drop onto the ground through their respective slots.

NOTE: Do NOT attempt to lift or transport the unit while in Isolation Mode.



Figure 21: Latch System



Figure 22: Open Locked Position



Figure 23: Closed Locked Position

3.2 Transport Mode

To put the unit back into Transport mode, do the following at each of the six latch points around the base.

1. Rotate the bolt 90 degrees upwards, slide it outwards so that it engages with the hole in leg and then rotate it back down (**Figure 23**).

4. Operation

4.1 Basic Operation

1. After completing physical setup, walk the arm a full 360-degree rotation around the unit to ensure that it will clear all surrounding objects.
2. Place stanchions or other barriers outside of the arm radius to keep participants and spectators a safe distance from the arm's path (we recommend 3 feet).
3. Have subject(s) stand on the center of the platform.
4. Instruct subjects to remain on the platform until after the arm has come to a complete stop.
5. Initiate recording according to the camera and software you are using.
6. Use the foot switch or wireless remote to initiate and halt arm rotation. Note: this may not be necessary when using recording applications that have built-in OrcaVue integration.

5. Limited Warranty and Support

5.1 Limited Warranty

Each unit includes a one-year limited warranty that is subject to some limitations such as issues caused by normal wear and tear. For complete limited warranty information, please reference:

https://orcavue.com/legal/commerce_terms_conditions.html

5.2 Support

For additional information on using your OrcaVue unit, please go to the following page where you will find an FAQ, additional written instructions as well as videos covering both hardware and software:

<https://orcavue.com/support>

6. Specifications



Overview

The XL is the largest and most professional system yet, while still holding true to OrcaVue's key characteristics: simple, portable, and affordable. This unit's state-of-the-art design delivers smooth high-quality 360 bullet-time videos within seconds.

Highlighted Features

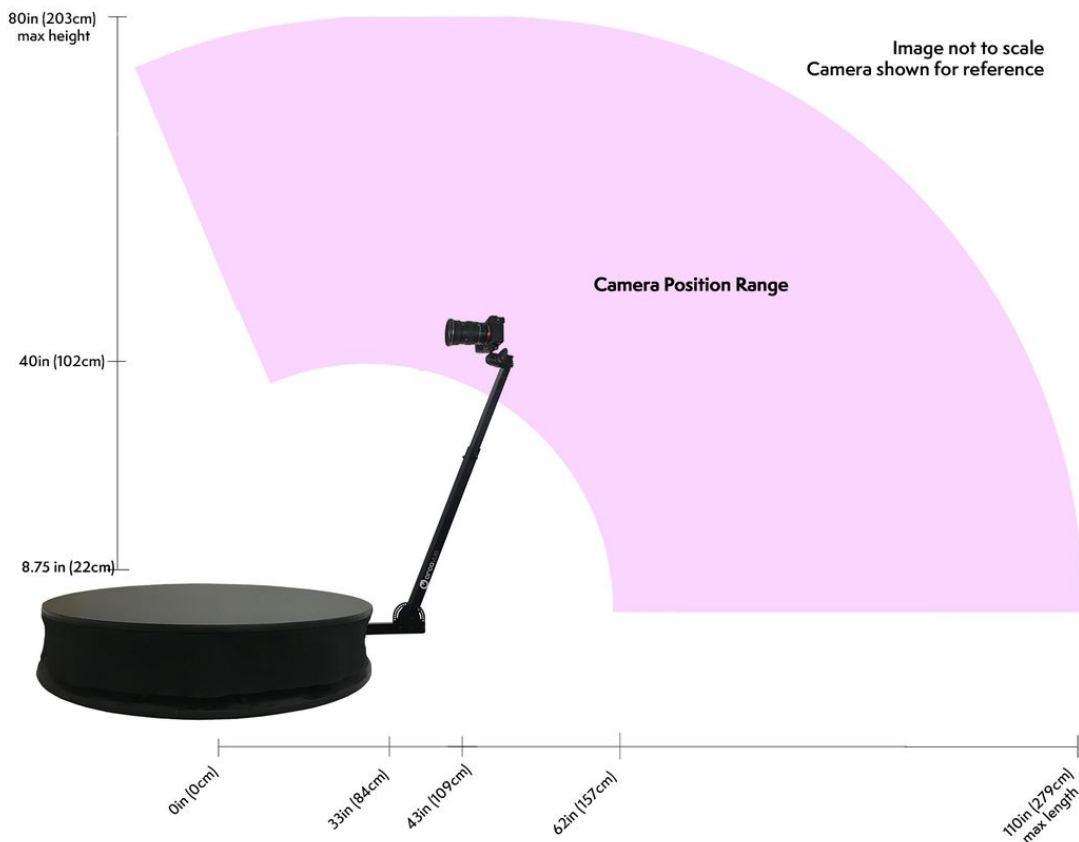
Stabilization - With its zero-shake camera stability technology, any heavy activity on the platform by the user will not effect the camera's motion, resulting in a smooth seamless shot every time.

Camera Compatibility - A reinforced camera arm allows for DSLRs or professional cameras to be mounted. Extra mounting holes also allow for accessories such as ring lights to be mounted to the arm.

Space - The 4ft platform allows for group shots and a more dynamic and fluid movement of the center piece.

Specs

Platform Diameter: 46" (1.17m)
Platform Height: 8.75" (22cm)
Footprint Range: 6' to 18' (167-548cm)
Camera Weight: 8 lbs (3.6kg)*
Max Occupancy: 6 People
Rotation Speed: 6-30 RPM (2-10 Sec / Rotation)
Unit Weight: 126 lbs (57kg)
Shipping Weight: 230 lbs (104kg)
Power Source: US Standard, 120-240VAC
Battery Life: 8+ hrs / 300 Sessions
Foot Switch Length: Optional - 11' (3.3m)
Stabilization Tech: Decoupled Stabilization



* The four five-pound weights supplied with the unit are sufficient for cameras and accessories weighing less than ten pounds when mounted with the vertical and horizontal arms fully extended at an angle of roughly 110 degrees while running the unit at a speed of 60% or less. If you need to exceed one of these parameters, reduce another.

All also subject to Vin Evans' Terms & Conditions found here: <https://www.vinevans.com/policies>