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# CV.MR.IG EN

## Mirror Rig Installation Guide

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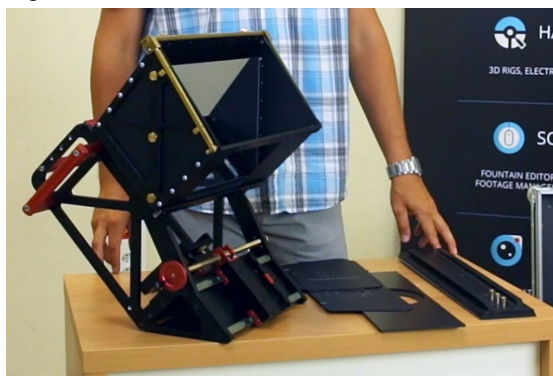
Welcome to CinemaVision – to the 3D movie world.

CinemaVision would like to present a 3D film set and the method of its installation.

### 1. The CinemaVision set

CinemaVision set contains:

- Mirror Rig,
- Dove Tail - main mounting plate with a set of screws,
- MatteBox Insertings,
- top French Flag,
- side French Flags x2 pcs.,
- camera mounting plates x2 pcs.



To properly compose the CinemaVision 3D set in the first place mount double V-lock battery power supply board on the main mounting plate.



Place camera communication cable GIG-E on the main mounting plate. This cable and the bottom camera power cable should be placed precisely and held with a screw clamp which we will use later to mount Ambient Lockit device.



We screw the main mounting plate with the Rig by using three brass screws and a flat-blade screwdriver. The cables can be hooked for a while so as not to interfere.



Now the Rig is ready to be put on the tripod, and to be leveled.



## 2. Camera equipment installation

Our 3D set will consist of two RED Epic Mysterium-X cameras and two identical lenses - 25 mm focal length Cooke mini S4/i.

In addition, we will need two Easy Top Wooden Camera plates with a set of screws and brackets, which we will use later to mount a Follow Focus device.

Tools we need are flat-blade screwdriver, standard RED allen key, and a small torx key.

We have to prepare also two CinemaVision camera mounting plates.



First we have to replace the RED cameras radiator cover with the Easy Top plates.



The next stage is to mount CinemaVision camera mounting plates on both cameras.



Then to the upper right edge of the camera tighten the motor holders of the follow focus unit.



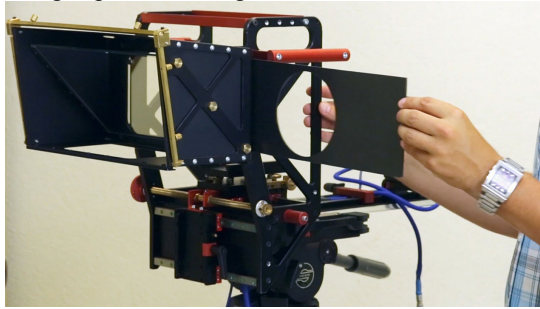
Now the cameras are ready to be fitted with lenses.

It is worth remembering that the lenses should be always assigned to a particular camera (left to left and right to right) and to install them always in the same way. This will facilitate the subsequent set synchronization.

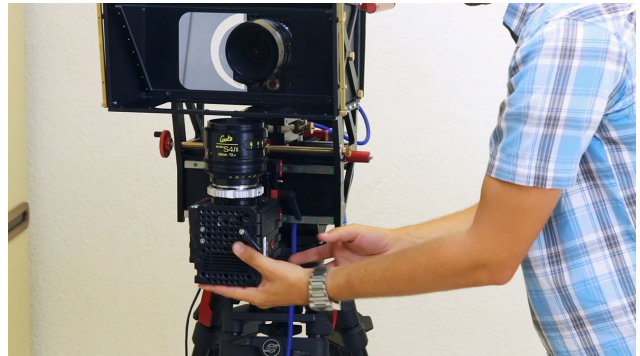
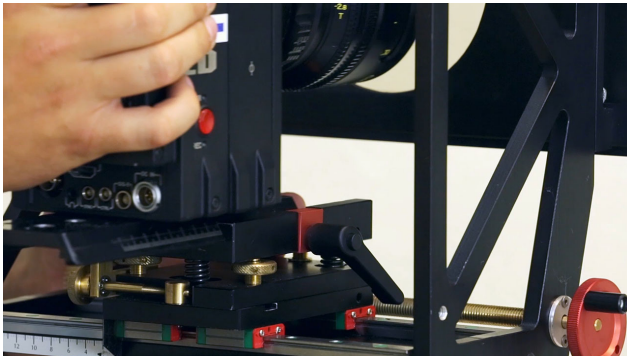




Before mounting the cameras on the Rig slip the inserting into the Mattebox.



The left camera should be mounted on the upper, horizontal trolley, and the right on the vertical, bottom trolley.



The next step is inserting the batteries to power the set and mounting screens for the cameras.

The screens can be screwed to the mounting holes on the Rigs upper crossbar.



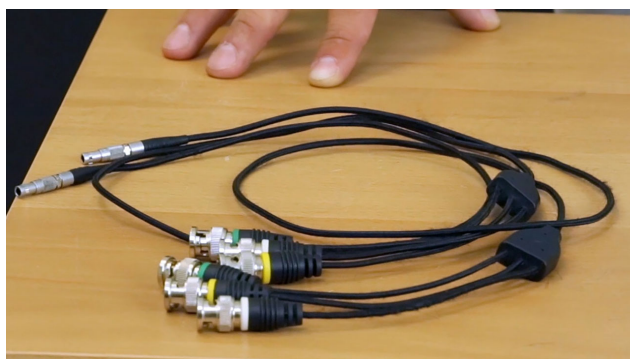
The screen mounted on the left side has to be connected to the upper, left camera and the one mounted on the right to the bottom, right camera.



### 3. Ambient Lockit connection

To connect Ambient Lockit device will be needed:

- Configured Ambient Lockit with a mounting screw,
- RED 3BNC-TO-00 SYNC cable x 2 pcs.
- LTC-OUT cable 2 pcs.
- BNC double female connector x 2 pcs.
- BNC tee-shape signal splitter
- 2.5 mm allen key



Green tips of the BNC Sync cable responsible for a genlock signal should be joint with a tee-shape BNC connector. Connect LTC-OUT cables with a yellow-marked tips using BNC double-female connectors. Other white tips are useful when using an external trigger.

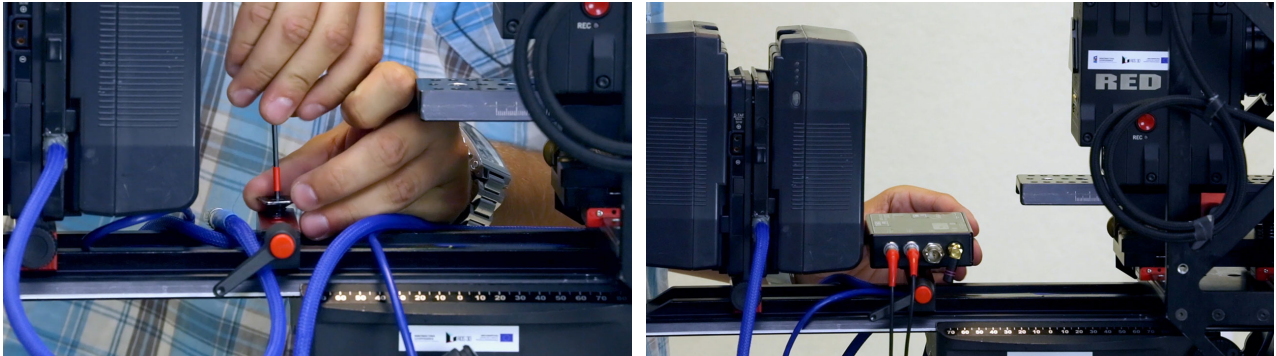


Connect LEMO plugs of LTC-OUT cables and genlock BNC connector to the appropriate sockets of the Ambient Lockit.





Screw Ambient connector to the previously mounted bracket.



At this stage, appropriate cables can be connected to the cameras:

- sync cable from Lockit device,
- GIG-E communication cable,
- power.

We perform the same for the bottom camera.

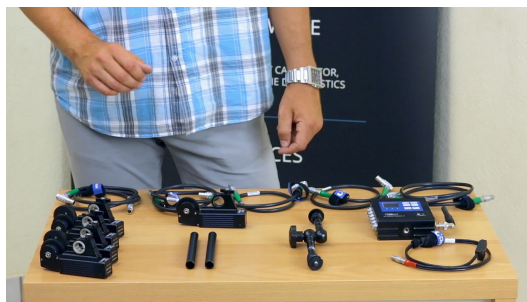


#### 4. Follow Focus Aladin Mark II connection

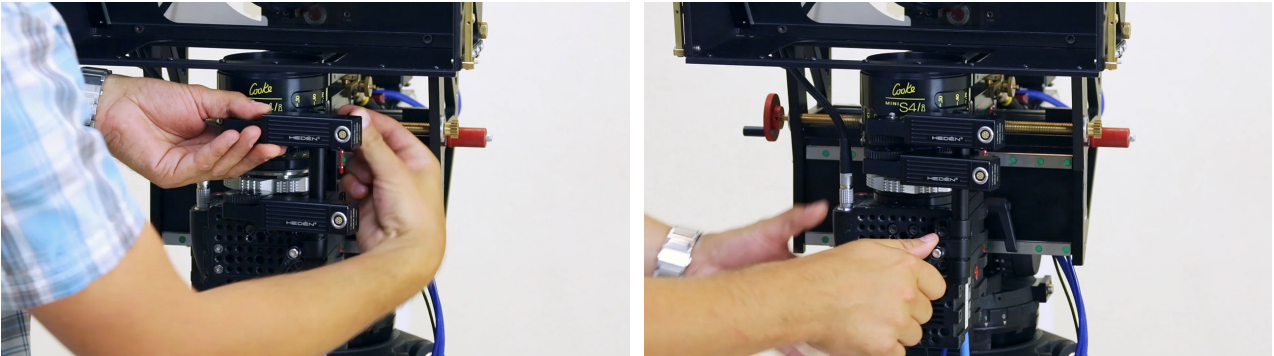
Our 3D set is equipped with a Follow Focus Aladin Mark II device.

It consists of:

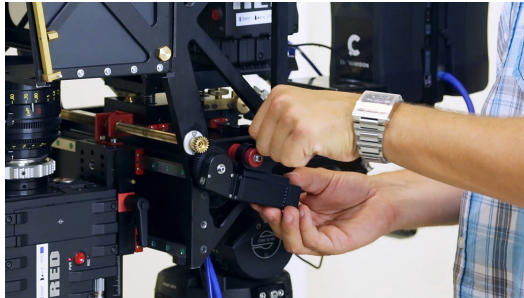
- servo motors to control lenses x 4 pcs.,
- cable for servo motor x 5 pcs.,
- Aladin Mark II control device,
- magic arm coupler,
- power cable,
- an additional servo motor to control the interaxial,
- mounting rod x 2 pcs.



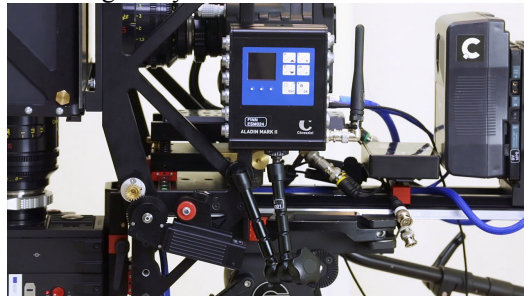
Servos to control iris and focus mount on both lenses using rods.



Next, install an additional servo motor to control the interaxial of the 3D set.



Using the magic arm coupler attach to the Rigs body the Aladin Mark II Follow Focus control device.

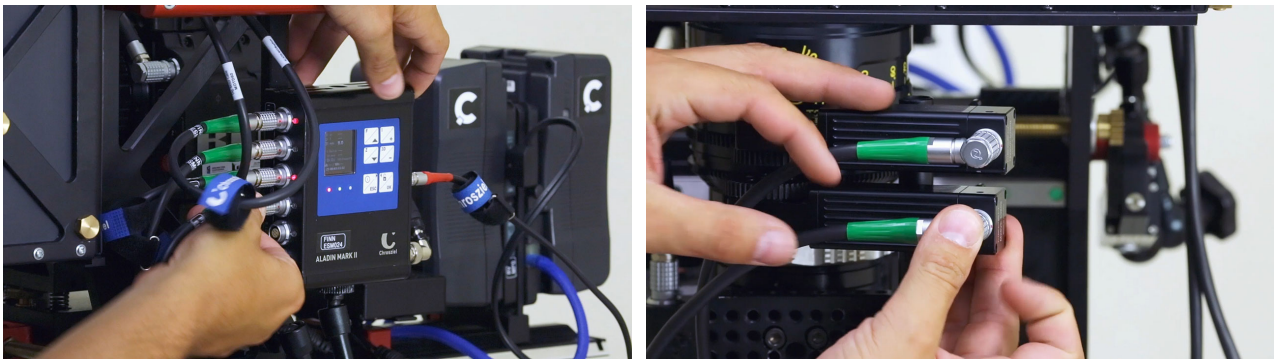


Connect the power supply to the socket on the battery plate.





Plug lens motors control cables into the appropriate sockets of the Aladin driver.



At the end plug the cable to the servo controlling the interaxial of the 3D set.



Wiring should be arranged carefully so as not to interfere during the later work with the camera.

Now the 3D CinemaVision set is ready to be synchronized.



We invite to watch the tutorial movie: *CinemaVision Mirror Rig Tutorial (CV.MR.VT1 EN)*.

**END**