Building out the C-100 with Redrock Rig and Matte Box

[ ] Set up the tripod.
Make sure the head is level and the pan and tilt tensions and locks are not too tight or too loose. The tripod should be set at a comfortable height for you to attach all of the components. You will adjust it for your shot after the rig is built.

[ ] Check the camera and cage.
Open the C100 case and check to make sure the Quick Release Tripod plate is firmly mounted to the bottom of the camera cage. Tighten with screwdriver if it is loose. Also confirm that the camera is securely held in the cage. It should not wiggle at all. It should be connected to the cage at both the top and the bottom of the camera.

[ ] Carefully mount the C100 with cage to the tripod.
Slide it in from the rear until it clicks then center it on the tripod head and tighten the lock on the right side of the tripod head.

[ ] Check tripod head again
Adjust the tripod arm and make sure that the tripod head is still secure and level. The tilt lock should be tight enough that the tripod head will not fall forward or backward as you continue to add more weight and change the center of balance.

[ ] Power on the camera.
Connect the camera battery and power on the camera.

[ ] Lens the camera with the lens of your choice.
Carefully affix the lens to the camera by lining up the red dots and turning clockwise about a ¼ turn until it clicks. Confirm that the lens is securely mounted. Make sure you keep track of the camera body cap and the back cap of the lens. The lens case is the best place to put them.

[ ] Slide the 18” carbon fiber rods into the base of the cage.
Get the two 18” rods from the camera case and after loosening the two screws at the front edge of the cage base slide the two rods into the cage base. If you have trouble loosening the screws because they are hitting the tripod head you can ratchet them by slightly pulling out on the screw head and counter rotating it. You may adjust the rod length in front of and behind the camera depending on your needs, but a good place to start is an equal amount in front and behind. Make sure after you insert the rods that they are securely mounted in the cage base.

[ ] Prepare the two Noga Articulating Arms.
The two articulating arms should be straight when you screw them into the cage. If they are not straight slightly loosen the joint on the center of the articulating arms and straighten them out. DO NOT over loosen or tighten the center joint of the articulating arm.

[ ] Screw the two Noga Articulating Arms into the cage.
One articulating arm goes into the top of the cage and the other goes into the left hand side of the cage from the camera operator’s perspective. Make sure you carefully screw the arms in straight and not at an angle. Screw the arms in until the black nut is flush with the cage. The red rubber piece should be on the other end of the arm, that will be what the monitor mounts onto after it is attached to the cage. Do not over tighten the arms when screwing them into the cage.

[ ] Connect the Ikan Monitor and Ninja Blade recorder to the articulating arms.
Adjust the articulating arms so that they are in a position where you can easily screw on the monitor and recorder. Make sure the arm joint is tight and will stay stable with the weight of the monitor, but do not over tighten the arm joint.
The Ikan Monitor should be mounted at the rear of the camera and the Ninja Blade should be mounted on the camera left arm. See image for details on positioning. Make sure that both monitors are in complete contact with the red rubber piece at the end of the arm.

[ ] Attach batteries and hard drive into the Ninja Blade and Monitor.
Put both batteries into the Ninja Blade carefully and then slide in the SSD Drive. The SSD Drive only goes in one way into the Ninja Blade Recorder never force it when inserting the drive. Power up the Ninja Blade by holding the button on the right. Attach a battery to the back of the Ikan Monitor. Power it up by sliding the switch on the top left.

[ ] Connect the HDMI Cables.
Plug an HDMI cable into C100 and plug it into the HDMI input on the Ikan Monitor. Run a second HDMI cable from the output of the Ikan Monitor to the input of the Ninja Blade. If the C100 is powered up with a lens you should see an image on both monitors.

[ ] Check all settings on C100 and Atomos.
It is most important to make sure that the frame rate on the C100 matches the frame rate settings on the Atomos Ninja Blade. See additional setting specifications in C100 and Ninja Blade documentation.

[ ] Attach the follow focus to the rods
Loosen the screw on the side of the follow focus and attach it to the rods. Slide it back until it is lined up with the focus ring of the lens you are using and lock it down and then adjust the follow focus gear so it settles into the focus ring on the lens.

[ ] Prepare the Matte Box
Remove the Matte Box and Matte Box Arm from their case. Orient the Matte Box so the filter trays are facing up and pull up the Swing Arm Knob (marked with a blue M) to rotate the Matte Box Rods 90 degrees. Attach the Matte Box Arm to the Matte Box rods by carefully sliding the Arm onto the rods.

[ ] Mount the Matte Box to the Rods
Mount the Matte Box to the rods until the rods hit the bottom edge of the Matte Box. Make sure the Matte Box is securely mounted to the rods. Once the Matte Box is secure you can loosen and then pull the cloth fabric (the donut) around the lens to block any back light. Secure the donut over the lens with the pull string making sure it doesn't get in the way of the follow focus.

[ ] Add the Matte Box Flags (optional)
If desired add the Matte Box Flags to the top and sides of the Matte Box by slightly loosening the blue screws on the Matte Box and sliding the flags in between the blue screws and the Matte Box edges.

[ ] Make Any Final Adjustments
Make sure the rig is secure and stable. Adjust tripod tensions and try panning and tilting the camera to make sure that it moves smoothly.

***Please Note:*** If you change out your lens during a shoot make sure you the tripod head is locked down and carefully swing away the matte box and slide the follow focus away from the lens. Take off and secure the current lens before getting the new lens. You may need to the adjust the rod length slightly so that the follow focus and matte box space out correctly with the new lens length.

***DO NOT try and fix any of this stuff. Test before you leave Room 18 and bring back if broken.

***Please note, if you're shooting in areas with adverse weather (rain, snow, wind, sand, etc), please see your instructor about protecting the camera.***

On the C-100, make sure that you're shooting in the flat Cinema profile, have the correct shutter (1/48, 1/60, 1/120), have white balance set, have correct exposure (use the waveform monitor on the C100
and/or Atomos), and are shooting in ProRes 422 on the Atomos.