

# Transcript for the AERONET Cimel Setup Video

OK, it's a sunny day on Mt. Aeronet and I'm going to teach you how to set up a Cimel Sun photometer and put it in the PARK Position. It's important to park the robot prior to mounting the sensor head. OK, so now the robot is parked and I am mounting the sensor head. It can be a little tricky depending on the version of the robot, some have straps and some have metal bands but with a little bit of practice you can master the technique of mounting the sensor head. There's a couple of little points that you need to consider, one that the sensor head must be flush with the base of the mounting bracket on the robot, you can see where I'm pointing there and also the connection for the sensor head must be close within that little V or notch of the mounting bracket and if you position it properly then the collimator will be pointing in the right direction up and down as you see in this photograph. Once that's mounted then we will do a park again and at that point the sensor head should be neater pointing directly down. Once you have done that then you want to do a GO SUN so go into scenario mode and push GO SUN then the sensor head will be pointed up at where it thinks the sun is. OK, so once the sensor head is pointing toward the sun, then you have to rotate the base to align it so that the sun comes through that little pin hole and aligns on the target. To do this you rotate the base until you get the sun on the target like this. OK so now I am happy with the positioning of the robot. I'm going to park it again and support the sensor cable so the weight of it doesn't affect the tracking. So park it, you never can do too many parks. Park it once again then do a GO SUN to verify the alignment. I'm very happy so now I will park the robot and level the robot and the sensor head. Do this in the park position always, and we avoid using the level on the top of the robot because we found the calibration fails and they lose water etc. we just never use them so we just use a level provided by AERONET and check the top of the robot. OK, so once I check the robot and I put the level on the claw itself the mounting bracket and check the level there check the level on the top of the sensor head that is off sometimes it's because of this loose nut, sometimes it's possible in shipping that this nut loosens and the motor housing can rotate and the claw. So we loosen that nut using a 10mm wrench and an Allen wrench and then we mount the sensor head back on and you can see ever so slightly there that I am rotating that whole motor and once I get the sensor head level again we tighten it back up and apply a little pressure here because you want this not to slip again. OK so you firmly tighten that bolt and then do another GO SUN to see if you are successful an that is a beauty there. So once we are happy there we park it and GO SUN 2 or 3 more times. You can never PARK and GO SUN too many times and you are looking for that beam of light to be on that target or as close as we can get to minimize the amount tracking the instrument will have to do.

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