

## **Assembly Instructions**

**Outdoor Scanning System** 





**Step 1.** Remove all items from packaging. Confirm that all pieces listed and pictured below are present. If any components are missing, please contact Resonon at support@resonon.com.



- 12. NIR Imager Cable and Power Splitter Cable (if applicable)
- 13. Objective Lens Focus Lock Wrench (if applicable)



## Step 2. Setup the Tripod

Turn the leg extension locks to release legs and tighten to lock the legs.





**Step 3.** Attach the Tilt Head to the Tripod.

Remove the screw knob from the bottom of the Tilt Head. Insert the Tilt Head Stud into the Tripod. Reattach and loosely tighten. Rotate the Computer Support Arm until it lines up with one of the Tripod legs. Fully tighten the knob.





**Step 4.** Connect the Rotation Head to the Tilt Head.

There are three screw holes in the mounting plate and in the Rotation Head. The Rotation head can only be mounted in one orientation. Line up the three mounting holes and attach the Rotation Head (with the Motor on the right of the Computer Support Arm) to the Tilt Head using the included 5mm wrench and (3) M6 screws.





**Step 5.** Attach the Computer Baseplate to the Support Arm.

Remove the lock pins from the Support Arm. Attach the Computer Baseplate to the Arm using the lock pins.





**Step 6.** Attach the Imager Quick Release Plate to the Imager if not already attached.

Using the 1/8" wrench provided, attach the two ¼-20 screws through the Quick Release Plate and into the imager. Align the Plate with the "Lens" arrow pointing towards the Imager Lens.





**Step 7.** Slide the imager and quick release into the rotation head.

Hold the Imager with the Lens pointed towards the "Insert" label on the Quick Release Mount. Gently slide the Quick Release into the holder until there is a click. Then move the Imager to desired position and turn the lock lever to secure the Quick Release plate.



To remove the Imager, loosen lock tab and push the release button on the opposite side.



**Step 8.** Connecting Rotation Head to Battery Pack and Computer.

Find the cord with the 5.5mm power connectors at each end. Install one end of the cord into the battery pack and the other into the Rotation Head Motor. Find the USB connector on the Rotation Head and connect it to the USB port on the computer.



Step 9. Connect Imager to Computer.

Find the USB 3.0 Imager Cable (if applicable) and attach the locking end to the back of the Imager. Insert the other end into a USB 3.0. port on the computer.



## NIR Imager Connection (if applicable)

The NIR imagers require power from the battery pack. Using the supplied Power Splitter cable, attach the Battery to Rotation Head Cable to the input on the Power Splitter. Connect the NIR Power connector to the camera. Connect the other portion of the splitter to the Rotation Head as previously described. Connect the Ethernet Cable from the computer to the camera.





## Step 10. Using battery pack

Flip the power switch to the (-) mark to turn the pack on. The green LED charge level indicators should be lit.

To power the pack off, flip the switch to the (O) position. *Be sure to turn off the battery pack power when not in use.* 

Also, be sure that the camera and computer screen are oriented so that they will not contact or bind cables while rotating. Adjustments to the imager direction during setup or to verify cable management can be made by rotating the stage in the Spectronon software.





**Recharging the Scanner Battery Pack.** Make sure the battery pack is turned ON. Plug the Charger into the battery pack and a wall outlet.



The display LED charge level indicators on the battery will all be lit during charging. The charger LED will be RED while charging and will become GREEN when the battery is fully charged.

Your Rotation Stage and Imager are now ready to be used. Please consult the Spectronon User Manual for operation of the software. If you have any questions or concerns, please contact Resonon at support@resonon.com.

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