

# Mobile Surveillance Unit (EP910-T)

## STEP 1



### Position the MSU

- Identify the optimal place to deploy unit. Ensure location is fairly level, free of debris and enough space to extend solar panels, outriggers and free of any overhead objects that would interfere with the raised mast.
- Position MSU with the solar panels facing south.
  - Ensure the line of sight to the horizon is not obstructed so that solar panels will not be obstructed by vegetation, buildings, or vehicles.



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## STEP 2

### Secure and disconnect the MSU

- Engage the parking brake lever by pulling to the upright position. (Figure 1)
- Ensure all wheel chocks are in place to prevent unintentional movement. (Figure 2)
- Disconnect the MSU from the tow vehicle.
  - Use the wheel jack to raise the hitch off of the tow vehicle.
- Install a hitch lock on the MSU to assist in preventing theft. (Optional)



Figure 1



Figure 2

### STEP 3

## Position the stabilizer legs and level

- A. Pull the release pin and extend outriggers until pin re-locks in place to all four of the stabilizer legs. (Figure 3)
- B. Using bubble levels, lower jacks with supplied handle and adjust the MSU to level. (Figure 4)



Figure 3

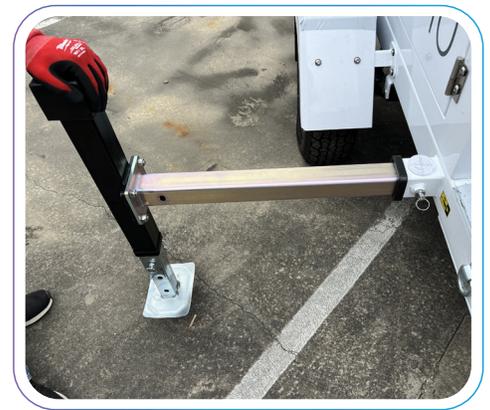
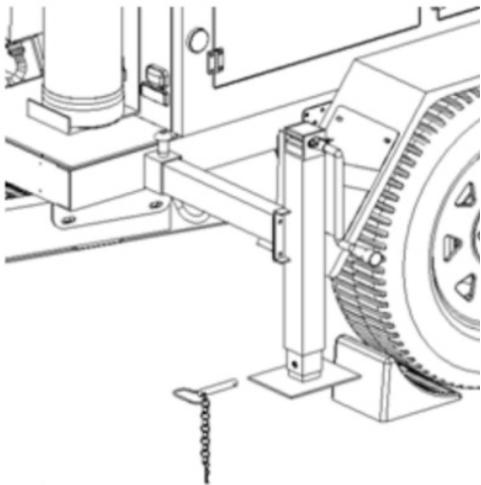
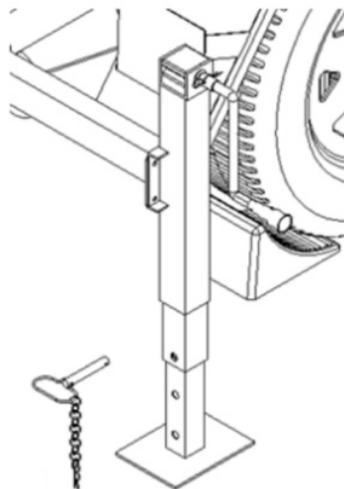


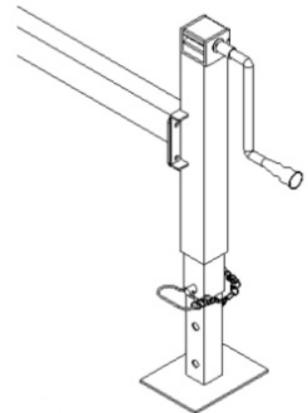
Figure 4



Pull out the locking pin in the bottom of the outrigger and fit it to the third hole above.



Apply the same action for the other 3 outriggers.



Turn the jack handle clockwise to start leveling the MSU.

### STEP 4

## Attaching/Installing Cameras/Equipment

- A. Remove mast swivel pin to enable mast head to rotate. (Optional)
- B. Remove the cover on PTZ mount. (T30 Screwdriver) (Figure 5)
- C. Align 3x studs on camera head with holes on mount and turn clockwise until stopped.
- D. Tighten 3x screws securing camera to mount. (Figure 6)
- E. Insert power cable into top of camera until you hear/feel click - check orientation of plug. Only fits one way, do not force. (Figure 7)
- F. Insert RJ45 pigtail into top of camera until you hear/feel click - check orientation of plug. Only fits one way, do not force. (Figure 8)
- G. Replace mount cover, tighten screw and replace rubber plug.
- H. Rotate mast head to desired/optimal direction and reinsert pin. (Radar specific)



Figure 5

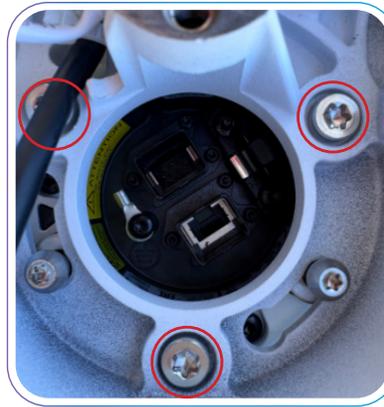


Figure 6



Figure 7



Figure 8

### STEP 5

## Powering on the MSU

- Turn main disconnect (red handle) clockwise 1/4 turn to engage batteries.(Figure 9)
- Turn on the Battery (left) breaker first, wait 30 seconds then turn on the PV Array (right) breaker.(Figure 9)
- Wait approx. 60-120 seconds to power on.
- Press "OK" on the LCD screen. (Figure 10)
- The far right icon will change from an "off" light bulb to an illuminated light bulb, and a number of ~26V should appear underneath. Then you will hear the sound of cooling fans coming from the UIG on the mast. (Figure 11)



Figure 9



Figure 10



Figure 11

### STEP 6

## Raise the mast

**(Before raising, contact your EPIC iO POC to ensure all devices and equipment are working properly)**

- Remove hook-hook turnbuckle on mast used for securing during transport. (Figure 12)
- Attach guy wires to proper anchor points on mast head. (Figure 13)
- Using winch handle, rotate clockwise to raise mast. (Figure 14)
  - The mast should have a red sticker identifying max height.
- At max height, insert security pin through mast. (Figure 15)
- Turn winch handle counter clockwise to release tension from winch cable. (Figure 16)
  - If unit is NOT in a secure location, use Allen wrench to remove set screws on handle and store handle inside cab.
- Attach guy wires to proper anchor points and tighten turnbuckles equally to remove slack (Figure 17).
  - Ensure mast perpendicular and is not leaning or being pulled in any direction.



Figure 12



Figure 13



Figure 14



Figure 15



Figure 16



Figure 17

### STEP 7

## Deploying Solar Panels

- A. Remove the bolts on both sides of solar panel brackets (Figure 18)
- B. With a second person, push solar panel assembly up and reinsert bolt in the last hole on the bracket and tighten (Figure 19)
  - The 2 nylon washers should be placed between the bolt and bracket and the bracket and the cab.



Figure 18



Figure 19

- C. Release the spring-loaded “L” shaped locking pin on panel edges. (Figure 20)
- D. Press rubber coated lever at the bottom corner of panels to release and pull to extend. (Figure 21 )
- E. Slide until you hear click and panels are locked in place. (Figure 22)



Figure 20



Figure 21



Figure 22

### STEP 8

## Connecting to shore power

- A. To access the plug, locate the small panel on the drivers side of the unit and loosen the thumbscrew. (Figure 23)
- B. Plug in the extension cord to the receptacle. (Figure 24)
  - If the unit has the NEMA L5-30 connection, use adapter provided. (Figure 25)
  - Insert adapter and turn clockwise until it locks into place then connect to extension cord.
- C. Open cover above the outlet and turn both breakers to the ON position. (Up=ON, Down=OFF) (Figure 26)
- D. Plug in extension cord to 120VAC power source.



Figure 23



Figure 24



Figure 25



Figure 26

## 8 simple steps to setting up your MSU (EP910-T).

For additional questions please contact our customer support team at [support@epicio.com](mailto:support@epicio.com). We're happy to help!

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