

# Mobile Surveillance Unit

## EP-910-T

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## OVERVIEW

### Purpose and Scope

This document provides field service personnel at EPIC iO, partner organizations, or customers the information necessary to properly break down a Mobile Surveillance Unit and prepare it for safe relocation or storage. The document addresses the following operations:

- Lowering and securing the mast for transport
- Verifying safe shut-down and disconnect
- Disconnecting and removing cameras, equipment and preparing the cables for transport
- Stowing the outriggers and chocks
- Final inspection, logging, and securing the unit

This document defines the approved standard process and procedures for the demobilization of an EPIC iO Mobile Surveillance Unit.



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## Responsibilities

Assigned field service personnel conducting demobilization operations must ensure all appropriate safety precautions are followed, and all disassembly steps are performed exactly as prescribed. Additionally, the parties conducting breakdown operations are solely responsible for protection of the sensors, batteries, solar panels, cameras and other equipment associated with the Mobile Surveillance Unit.

### STEP 1

## Stowing Solar Panels / Lowering the Mast

- Press rubber-coated lever and slide panels inward until retracted and locked in closed position. (Figure 1)
- Release the spring-loaded "L" shaped pin on the side of the panel and lock in place. (Figure 2)
- Loosen turnbuckles on all guy wires until tension is released.
- Insert winch handle and rotate clockwise to remove the weight from the mast pin. (Figure 3)
- Remove the mast security pin and stow then slowly rotate winch handle counterclockwise to lower mast completely. (When lowering, ensure the cameras or speaker do not hit the solar panels.) (Figure 3)
- Remove winch handle and store inside cab.
- Detach guy wires from mast anchor points and stow in cab for transport. (Figure 4)
- Attach hook-eye turnbuckle and clip onto mast to secure for transport. (Figure 5)



Figure 1



Figure 2



Figure 3



Figure 4



Figure 5

### STEP 2

## Powering Down the MSU

- Turn off the PV Array (right) breaker first, then turn off the Battery (left) breaker. (Figure 6)
- Turn the main disconnect (red handle) counter-clockwise 1/4 turn to disengage the batteries. (Figure 6)

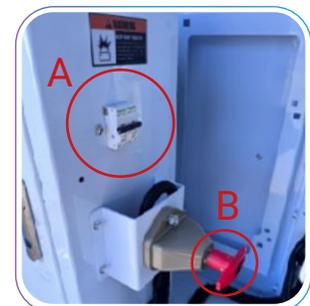


Figure 6

## Disconnect Shore Power (If connected)

- Turn OFF both breakers above the outlet (Down = OFF). (Figure 7)
- Unplug extension cord from 120VAC power source.
- Disconnect extension cord from unit receptacle.
- Remove adapter (if NEMA L5-30 connection is used) and store inside cab.
- Tighten thumbscrew on access panel for transport.



Figure 7

### STEP 3

## Remove Cameras/Equipment

- A. Remove locking pin to rotate mast head into a safe working position.
- B. Loosen the screw on the top of the camera mount and remove cover. (T30). (Figure 8)
- C. Disconnect RJ45 pigtail and 10 pin power cable from the camera. (Do not use force to remove the connectors.)
  - The 10-pin harness has a yellow locking “collar”. Ensure the “collar” is in the ‘unlock’ position and pull from harness, NOT cable. (Figure 9)
- D. Loosen 3x screws securing the camera head, rotate camera head counter-clockwise, and remove camera from mount. (Figure 10)
- E. Without disconnecting, place the 10-pin harness in the empty space toward the back of the mount.
- F. Replace mount cover and tighten screw.
  - Ensure no cables/wires are pinched between the gasket and mount cover when reinstalling the cover.



Figure 8



Figure 9

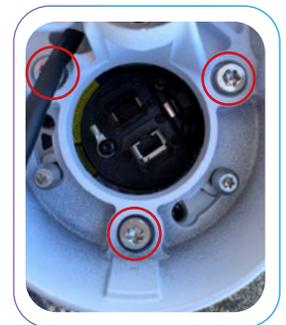


Figure 10

## Radar (If equipped)

- A. Loosen 4x screws on the face of the radar. (T20)
- B. Disconnect ethernet cable and remove gasket and cable from radar.
- C. Loosen the 2x screws then lift the radar up to remove from mount.

### STEP 4

## Retract Stabilizer Legs

(Ensure parking break or wheel chocks are engaged to prevent unwanted rolling)

- Locate the jack handle inside the cab.
- Turn jack handle counter-clockwise to raise jacks until wheels bear full load. (Figure 11)
- Remove adjustment pin and raise leg all the way up then reinsert pin. (Figure 12. Figure 13)
- Pull release pin and push outriggers in until pin re-locks in transport position. (Figure 14. Figure 15)

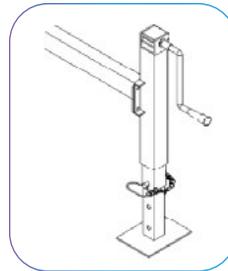


Figure 11

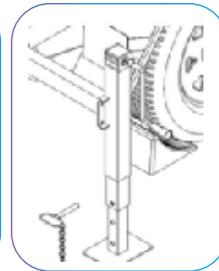


Figure 12

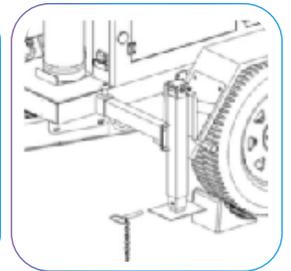


Figure 13



Figure 14



Figure 15

### STEP 5

## Prepare MSU for Tow

- Remove hitch lock (if installed) and stow in cab.
- Use wheel jack to lower hitch onto ball of tow vehicle. (Figure 16)
- Pull handle on jack and rotate horizontally for transport. (Figure 17)
- Connect and secure safety chains and electrical harness.
- Release parking brake lever (push down from upright position). (Figure 18)
- Remove wheel chocks and store securely.



Figure 16



Figure 17



Figure 18

### STEP 6

## Final Transport Check

### Walk around unit ensuring:

- Solar panels secured in transport position.
- Mast fully lowered and secured.
- All equipment, cables and accessories are stored securely.
- Outriggers stowed and locked.
- Verify tow vehicle connection and lighting.

## 6 simple steps to setting up your Mobile Surveillance Unit Demobilization

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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