

Fixed Surveillance Unit

EP-910-S

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 Fixed 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
- Final inspection, logging, and securing the unit

This document defines the approved standard process and procedures for the demobilization of an EPIC iO Fixed 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 Fixed 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 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

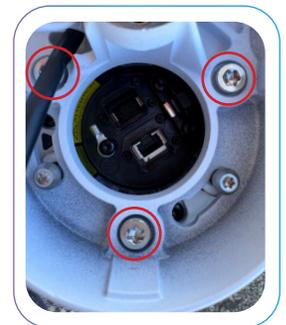


Figure 10

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

- Locate the jack handle inside the cab.
- Turn jack handle counter-clockwise to raise jacks. (Figure 11)
- Remove cotter pin and rotate 90° horizontally, then reinsert pin to secure. (Figure 12. Figure 13)
- Pull release pin and push outriggers in until pin re-locks in transport position. (Figure 14. Figure 15)



Figure 11

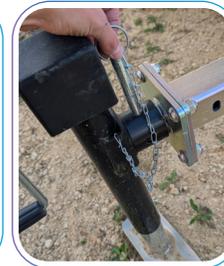


Figure 12



Figure 13



Figure 14



Figure 15

STEP 5

Final Transport Check

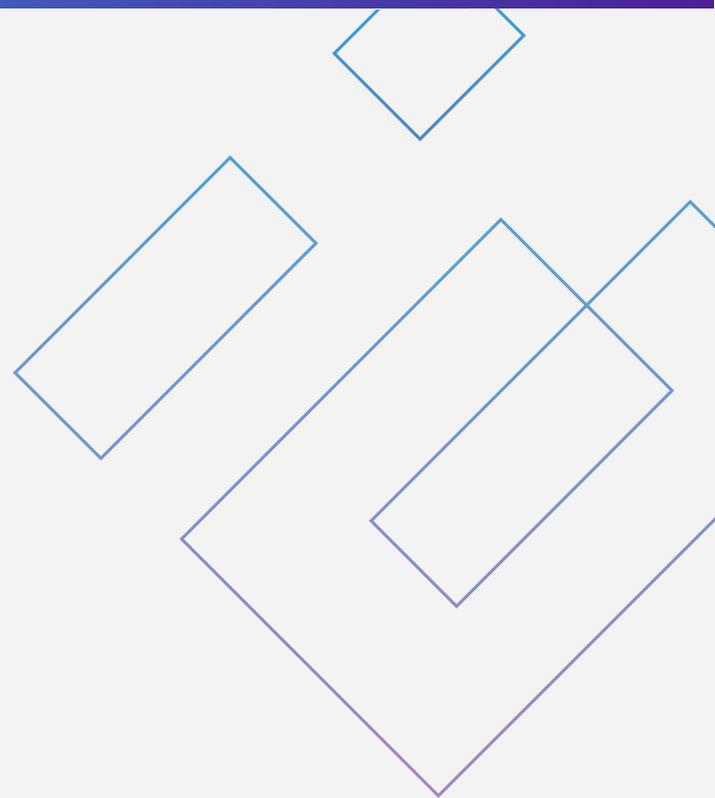
Walk around unit ensuring:

- 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.
- Return all keys to the the lock box.

5 simple steps to setting up your Fixed Surveillance Unit Demobilization

For additional questions please contact our customer support team at support@epicio.com. We're happy to help!

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