



# UV-C Light Disinfection

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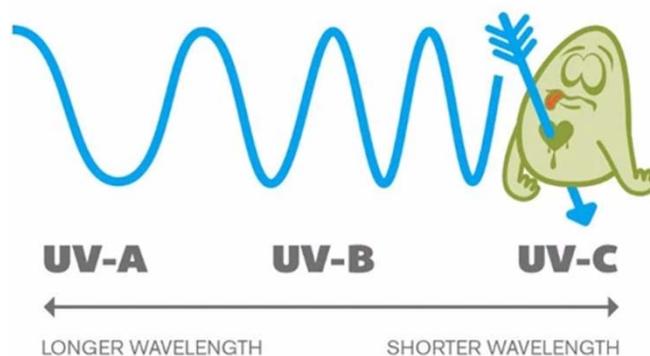


# Objectives

- Understand the role of UV light in disinfection.
- Establish a process for gross decontamination of ambulances following transport of a suspected COVID-19 case.
- Understand safe operation of UV light systems.
- Understand the features of the ClorDiSys UV-C Light Disinfection system.

# Ultraviolet Disinfection

- Ultraviolet light is a form of electromagnetic radiation with a wavelength shorter than visible light, making it invisible to the human eye.
- Emitted in the UV-C spectrum (254 nm wavelength)
- UV-C light fractures the DNA of the microbial, breaking it apart and causing it to die.



# The Lantern

- Virtua Health has deployed UV-C Light systems at each of it's hospital Emergency Departments that will be available for use by EMS Agencies.
- The UV-C light will be stored in the ER and must be requested from a Security Officer.





# Safety

- Ultraviolet light is a form of invisible radiation and is hazardous to the skin, eyes and any living tissue.
- Before running a cycle, always verify that no one is present in the room.
- Do not open, enter, or in any way access the room while *The Lantern* is in operation



# Pre-cycle Checklist

- Open Ambulance doors and allow ambulance to air out.
- Don PPE and disinfect with EPA approved cleaning product.
- Doff PPE
- Ensure that the 4 UV-C lamps are in place and connected
- Ensure that the lantern and 4 UV-C lamps are clean and free of dust.



# Placement of the Lantern

- Placed in a location that maximizes exposure on all surfaces.
- Can be placed on its base, or handing upside-down with the integrated hook.
- UV-C light is only effective on surfaces within its line of sight.
- After one cycle, the Lantern is to be moved to a different location and cycled a second time.



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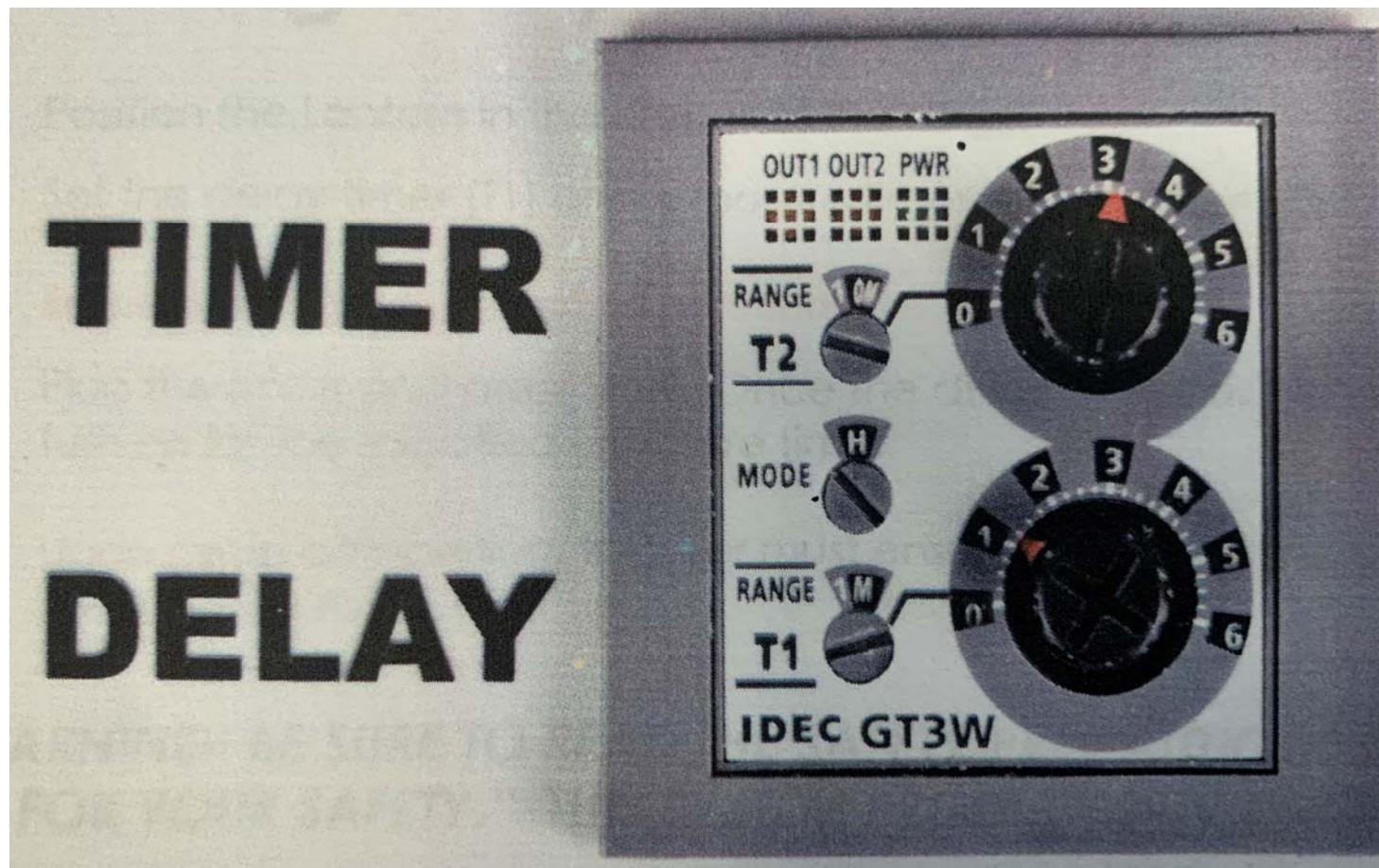




# Starting a Cycle

- Position the lantern in the center of the target area.
- Set the delay timer (T1) and exposure timer (T2).
- Ensure the ambulance is free of all personnel
- Plug the unit in, press start, and exit the ambulance.
- Upon completion, the user must ensure the UV-C lamps are off before re-entering the room (unplug the Lantern before repositioning)

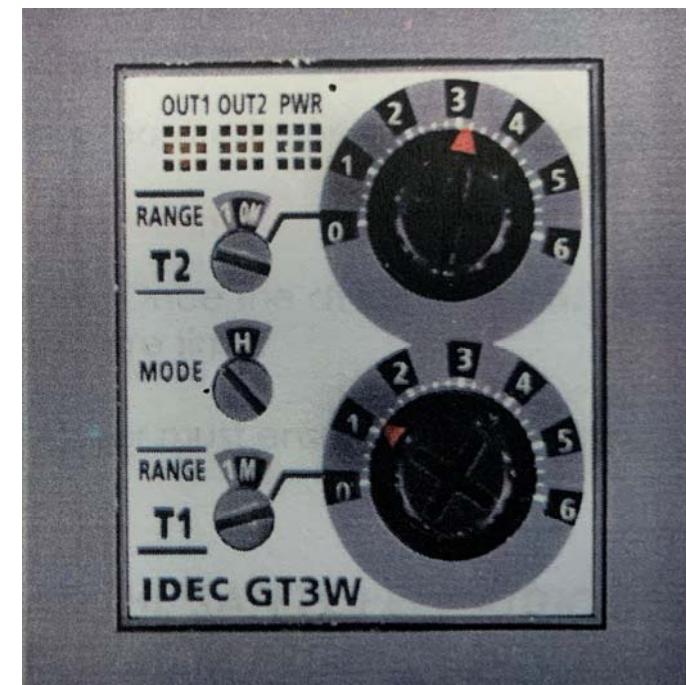
# TIMER DELAY



# Time

- Set timer to 5 minutes for each location.
- Set delay timer to allow for providers to exit ambulance and close all doors.
- Press start button and exit ambulance.

*At completion of cycle, move the Lantern to a new location and repeat the above steps*







# Clean and Return

- Clean metal surfaces of the Latern with an EPA approved cleaning product.
- Be sure to clean the bottom of the unit.
- Return the clean unit to a security officer.





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