

# Skydio X10 Dropper Prototype Reference Sheet

Updated: May 20, 2025

The Skydio Dropper attachment for X10 is a prototype attachment designed only for usage with the Restube Automatic Inflatable Floating Buoy for specific life-saving use cases.



## KEY WARNINGS:

- Skydio Dropper is a product designed specifically to drop rescue buoys—incorrect or irresponsible usage may lead to serious bodily injury and/or death.
- Skydio Dropper is designed only for use with the Restube Automatic Inflatable Floating Buoy. You are not allowed to put anything other than the Restube inside the Dropper.
- Skydio Dropper should not be used in precipitation or inclement weather. The Restube Automatic is designed to deploy in water—use in precipitation may cause the Restube to deploy and could result in a crash.
- Skydio Dropper cannot be used in conjunction with any other X10 attachments.
- Read the full Restube Automatic User Manual before use with the Dropper attachment.


## Preflight

1. Perform a visual inspection of the drone and Dropper system (per NYPD SOP)
2. Load the Restube into the Dropper
3. Power on the drone and controller
4. Ensure Centerpoint is toggled on
5. Establish a launch zone, check airspace, and perform all regular drone preflight safety checks (per NYPD SOP)
6. Keep the drone in the shade until ready to launch



**NOTE:** Before the start of your shift, it is recommended to perform a test drop (not over water, people, or hazards) to ensure the Dropper attachment functionality.

## Inflight

1. Launch the X10 and navigate towards the incident
2. Locate the swimmer (using tools like zoom or thermal if needed)
3. **Descend to 25 ft** above the swimmer (don't drop from a higher altitude)
4. Select the Dropper icon 
5. Select Look Down
6. Adjust the drone position if needed
7. **Stop moving** to ensure accuracy of the drop
8. Slide the onscreen slider to drop the Restube
9. Ensure successful inflation

## Key settings/steps

- Toggle ON Centerpoint (Global Settings > Display > Centerpoint)
- **Descend to 25 ft** above the swimmer (don't drop from a higher altitude)
- Select **Look Down**
- **Stop moving** to ensure accuracy of the drop

## Specifications

- Maximum Recommended Deployment Altitude: 25 ftAGL
- Wind Limit: 27 mph
- Default aircraft speed: 27 mph
- Operational Temp Range: -4°F to 113°F (-20°C to 45°C)

## Limitations

- Do not operate in precipitation due to the fact that the Restube is designed to deploy in water
- Dropper cannot be used in conjunction with any other attachments
- Battery life will be moderately reduced with Dropper

## Postflight

1. Inspect the Dropper attachment
2. Load a new Restube (if it was deployed)
3. Log the mission (time, location, outcome) per NYPD SOP
4. Upload video/data if required per NYPD SOP
5. Notify life guards and/or authorities with final status per NYPD SOP

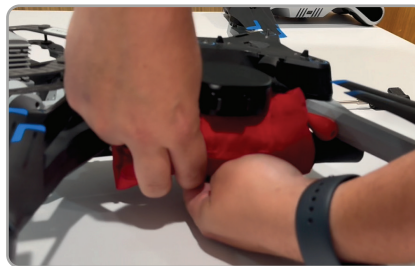
# How to install the X10 Dropper attachment

1. Align the Dropper attachment with the left-side attachment bay of your drone
2. Using the provided 2mm Hex Key, tighten the three captive screws to lock the attachment in place.
3. Where it says A4, gently lift the rubber gasket and rotate 180° down
4. Plug in the Dropper cable with the cable pointing downward



## How to load the Restube in the Dropper

1. Press the Restube against the Dropper attachment
  - The Restube logo should face inward toward the drone
  - The Restube water activator should point toward the rear of the drone
2. Pull the Dropper bungee cord up and around the Restube
3. Pinch the end of the bungee cord to create a loop, then thread through the side tab of the dropper
4. Press the pin on the side of the dropper to thread it through the loop in the bungee cord, securing it in place



Scan to view the online instructions for the X10 Dropper and access the Restube Automatic user manual.