

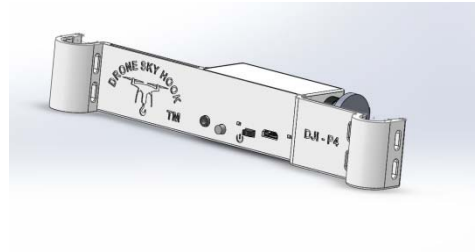
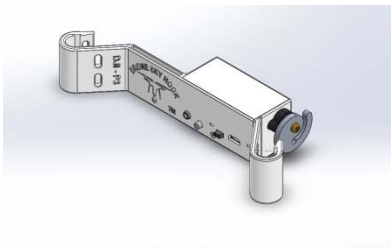


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Drone-Sky-Hook Release & Drop for DJI Phantom 4	Model: DSH-SRD1-P4
Drone-Sky-Hook Release & Drop PLUS for DJI Phantom 4	Model: DSH-SRDP1-P4
Drone-Sky-Hook Dual Release & Drop for DJI Phantom 4	Model: DSH-DRD1-P4
Drone-Sky-Hook Dual Release & Drop PLUS for DJI Phantom 4	Model: DSH-DRDP1-P4
Drone-Sky-Hook Release & Drop for DJI Phantom 3	Model: DSH-SRD1-P3
Drone-Sky-Hook Release & Drop PLUS for DJI Phantom 3	Model: DSH-SRDP1-P3
Drone-Sky-Hook Dual Release & Drop for DJI Phantom 3	Model: DSH-DRD1-P3
Drone-Sky-Hook Dual Release & Drop PLUS for DJI Phantom 3	Model: DSH-DRDP1-P3

# Installation and Operation Guide

V1.0





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### Note:

Additional information can be found in the **Frequently Asked Questions** page at the following link: <https://www.droneskyhook.com/frequently-asked-questions>



## Overview

### Overview of the Drone-Sky-Hook Release & Drop Device for DJI Phantom 4 and Phantom 3

Revolutionary innovative design that perfectly fits your DJI Phantom 4 and Phantom 3 series drones and allows for standard storage while installed.

Simultaneously transport two payloads (Dual models only) or one payload and then release & drop them, one at a time, above specific target areas.

Remote controlled AUX Channel controls your third-party devices by switching them ON or OFF during your flight (PLUS models only).

Combine this device (PLUS models only) with the optional **Drone-Sky-Hook LED Searchlight with Built-In Laser Pointer** (sold separately) to shine bright light at night on objects as far as 330 feet (100 Meters) away or use the built-in Laser Pointer to mark and illuminate points of interest on the ground.

Multiple Release & Drop modes and separate ON/OFF Control modes to best suit your application:

- Simple drone rotation (Self-contained. No linkage to the drone's front LED light is required).
- Use of C1 or C2 button on the DJI drone remote controller or DJI App (Linkage to the drone's front LED light is provided).
- Manual control.

**Connect-And-Fly in seconds!** No modification of any kind to the drone is required! No tools needed!

Quick Mounting and Locking Systems (QMLS). Perfectly fit the DJI Phantom 4 and Phantom 3 series drones.

Sensors Interference Avoidance System (SIAS). Will not interfere with the operation of the DJI Phantom 4 or Phantom 3 VPS sensors.

Unlimited operation range.

Small and light weight. Weighs only 1.75 oz ( 49 grams). Allows you to lift maximum payloads.

Quick and easy to operate. One hand payload hookup.

Over 200 carry & drop operations on a single battery charge.

Remaining Battery Capacity indicator light allows you to fly with confidence.

Built-in rechargeable battery and USB Charger. Can be charged from any 5V/1A mobile phone charger or USB jack on computers/Laptops.

Robust design. High quality 3D printed lightweight ABS.

Note: Do not overload your drone with heavy or bulky payloads that it cannot safely carry.



## Applications

### Applications for the Drone-Sky-Hook Release & Drop Device for DJI Phantom 4 and Phantom 3

The revolutionary **Drone-Sky-Hook Dual Release & Drop PLUS** device for DJI Phantom 4 and Phantom 3 unleashes your imagination for exciting adventures!

The innovative and unique design (patent pending) makes the **Drone-Sky-Hook Dual Release & Drop** devices the most sophisticated and best Deliver & Drop devices available today for the DJI Phantom 4 and Phantom 3 series drones. It allows your DJI drone to simultaneously carry two payloads (Dual models only) or one payload (variety of payloads) that can be precisely transported and then released & dropped, one payload at a time, above specific target areas.

The **Drone-Sky-Hook Dual Release & Drop PLUS** device has a remote controlled AUX Channel to control your third-party devices by switching them ON or OFF during your flight. Combine this device with the optional **Drone-Sky-Hook LED Searchlight with Built-In Laser Pointer** (sold separately) on your DJI Phantom 4 or Phantom 3 to shine bright light at night on objects as far as 330 feet (100 Meters) away or use the built-in Laser Pointer to mark and illuminate points of interest on the ground.

Take your drone experience to the next level! With unlimited range, you can release & drop each payload or turn ON / OFF external devices (PLUS models only) by simply rotating your drone (no linkage to the drone's front LED light is required) or by pressing the C1 or C2 button on the DJI drone remote controller. Prepare to be amazed as the device's high-tech brain does the work for you!

**Connect-And-Fly in seconds!** No modification of any kind to the drone is required! No tools needed! There is no need to disable the DJI Phantom 4 or Phantom 3 VPS sensors. The **Drone-Sky-Hook Dual Release & Drop** device perfectly fits the DJI Phantom 4 and Phantom 3 series drones and will not interfere with the DJI Phantom 4 or Phantom 3 VPS sensors that remain fully operational.

This small size, light weight, self-contained smart device allows you to lift maximum payloads for Exciting Fishing Adventures, Fun Activities or Search and Rescue Operations.

Drone Sky Hook strongly recommends that you follow all laws and regulations in your area, closely check your surroundings prior to takeoff and keep away from civilians, properties, trees, buildings electric poles etc.

Drone Sky Hook shall not be responsible and assume no liability for any loss, damage or injury.

#### IMPORTANT NOTES:

- Do not overload your DJI drone with heavy or bulky payloads that it cannot safely carry.
- As with DJI recommendations: Minimize interference by avoiding areas with high levels of electromagnetism including base station and radio transmission towers. Avoid magnetic interference from strong magnets, magnetite, parking structures and steel reinforcements underground. Stay away from ferromagnetic material such as cellular phones.

**DRONE SKY HOOK - your DJI DRONE Sky Partner (TM)**



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## Installation

Please click on the following links to watch the installation instructions videos:

Installing the Drone-Sky-Hook Release & Drop device on the DJI Phantom 4: [https://youtu.be/6UM\\_y4XWP3s](https://youtu.be/6UM_y4XWP3s)

Installing the Drone-Sky-Hook Release & Drop device on the DJI Phantom 3: <https://youtu.be/74b2NObnGuk>

### Installation of Drone-Sky-Hook Release & Drop Device on Phantom 4









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## Installation of Drone-Sky-Hook Release & Drop Device on Phantom 3









[www.droneskyhook.com](http://www.droneskyhook.com)





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## Operation

Please click on the following link to watch the Battery Charging instructions video:

Battery Charging of the Drone-Sky-Hook Release & Drop Device: <https://youtu.be/noZ5DaVeBfc>

### Battery Charging of the Drone-Sky-Hook Release & Drop Device







Notes:

1. The Device's battery can be charged from any 5V/1A mobile phone charger or USB jack on computers/Laptops using the standard Micro USB to USB Charging Cable (provided).
2. To maintain the battery in good operating condition it is recommended to fully charge the battery every 3 months while in storage.  
As with all Lipo (Lithium) batteries, keep the Drone-Sky-Hook Release & Drop device away from water and do not submerge it in water.
3. The PWR Green indicator LED light on the device blinks to indicate battery capacity.  
4 Blinks – pause - 4 Blinks – pause... - Batt capacity: 90 - 100%  
3 Blinks – pause - 3 Blinks – pause... - Batt capacity: 75 - 90%  
2 Blinks – pause - 2 Blinks – pause... - Batt capacity: 50 - 75%  
1 Blink – pause - 1 Blink – pause... - Batt capacity: 25 - 50%  
OFF- Batt capacity: 0 - 25% (Critical battery level - battery requires charging)

The remaining Battery Capacity indicator light allows you to fly with confidence.



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## Operation

Please click on the following link to watch the Manual Control of the Drop Wheel using FUNC button video:  
Drone-Sky-Hook Release & Drop Device - Manual Control of the Drop Wheel using FUNC button:  
<https://youtu.be/Ka6VAo9CoYU>

### Manual Control of the Drop Wheel using FUNC button on the Drone-Sky-Hook Release & Drop Device

**Turn ON the Device**







## Operation

Please click on the following link to watch the Setting C1/C2 remote controller buttons to Turn ON/OFF the drone's front LEDs lights video:

<https://youtu.be/5Fdo9xmu3Yk>

Drone-Sky-Hook Release & Drop Device - Setting C1/C2 remote controller buttons (in the DJI App) to Turn ON/OFF the drone's front LED lights











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## Operation

Please click on the following link to watch the Controlling the Drop Wheel with the DJI Phantom remote controller video:  
<https://youtu.be/eiEWSioTm9Q>

### Drone-Sky-Hook Release & Drop Device - Controlling the Drop Wheel with the DJI Phantom Remote Controller



Press twice C1 or C2 button on the Phantom remote controller to rotate the Drop Wheel and drop the payload



Press twice C1 or C2 button on the Phantom remote controller to rotate the Drop Wheel to Ready position





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## Operation

Please click on the following link to watch the Controlling the Drop Wheel with Drone Rotation (2 quick and complete Counter Clockwise turns) video:

<https://youtu.be/2PvTDT06Cgs>

Drone-Sky-Hook Release & Drop Device - Controlling the Drop Wheel with Drone Rotation (2 quick and complete Counter Clockwise turns)



Hang the Payload on the Drop Wheel (the Drop Wheel must be in Ready position)





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The Payload is released after that the drone completed 2 quick and complete Counter Clockwise turns



# Operation

## Drone-Sky-Hook Release & Drop Device – Control Modes of the Single Drop Wheel

**DSH Models:** Single Release & Drop / Single Release & Drop PLUS

### Operation Mode 1 – Drone Rotation

Remote Controller (Mode 2) LEFT STICK	Operation
	<p>Quickly Rotate (YAW) the drone two complete turns counter clockwise to drop the payload.</p> <p>To set the drop wheel back to its previous position, Quickly Rotate (YAW) the drone again two complete turns counter clockwise.</p>

### Operation Mode 2 – Drone Remote Controller C1/C2 Button and/or DJI App

Note: Use the DJI App to assign C1 or C2 button to Turn On/Off the front LEDs

Remote Controller C1 / C2 Button	Operation
	<p>Press C1 or C2 twice in quick succession (while maintaining about 0.5-1 second between each press) to drop the payload.</p> <p>To set the drop wheel back to its previous position, again press C1 or C2 twice in quick succession (while maintaining about 0.5-1 second between each press).</p>
DJI App	Operation
<p><b>Settings – Main Controller Settings – Advanced Settings</b></p>	<p>In the App menu switch the drone's front LEDs ON and then OFF or OFF and then ON. (Total of one ON-OFF or OFF-ON cycle) to simulate the operation of the C1 or C2 buttons on the drone's remote controller (see above).</p> <p>Maintain about 0.5-1 second idle duration between each switch operation.</p>

### Operation Mode 3 – Manual – FUNC button on DSH unit

DSH Release & Drop unit	Operation
	<p>Press twice the device's FUNC button to simulate the operation of the C1 or C2 buttons on the drone's remote controller (see above).</p> <p>Maintain about 0.5-1 second idle duration between each operation of the FUNC button.</p>

**IMPORTANT NOTE:** At the end of each operation wait 3 seconds for the execution your command and before the initiation of the next command (False Command Avoidance Algorithm (FCAA)).

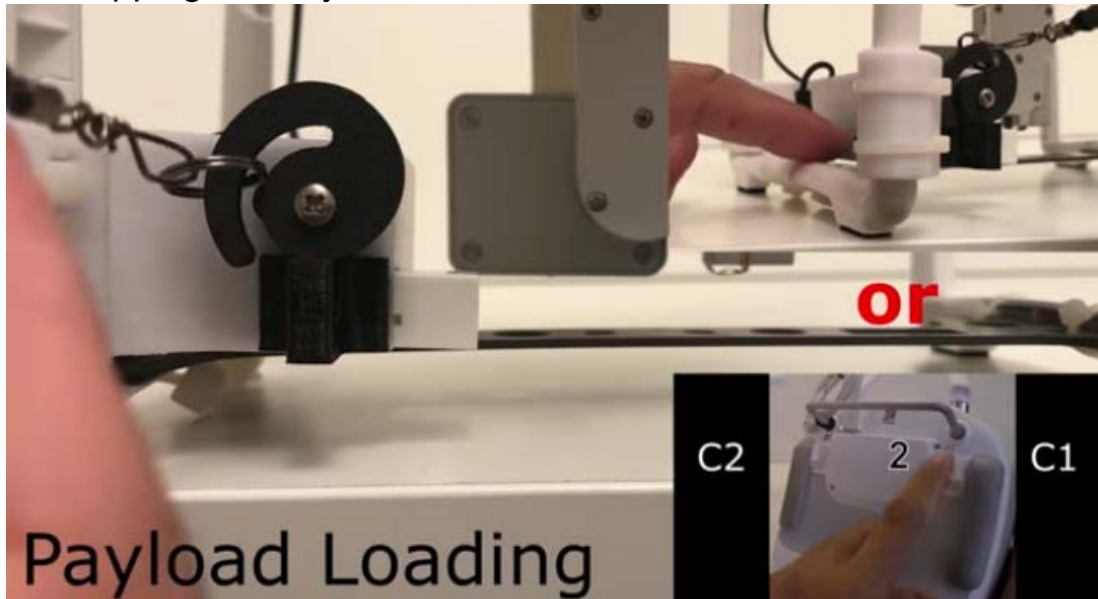


## Operation

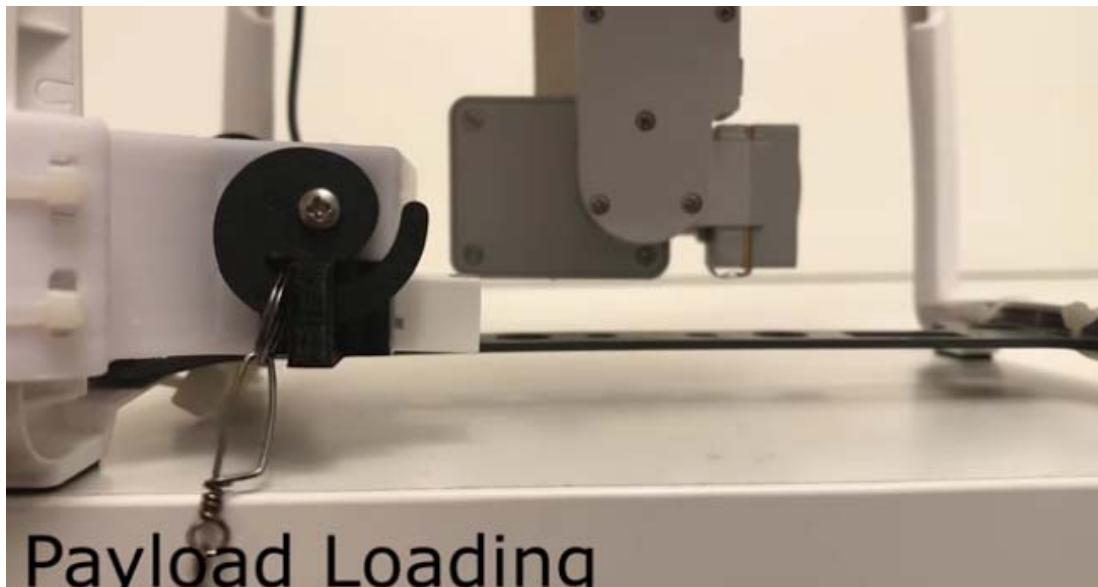
Please click on the following link to watch the Dual Release & Drop Device Operation - Loading and Dropping the Payloads video:

<https://youtu.be/enkqo-WRQjM>

### Drone-Sky-Hook Release & Drop Device - Dual Release & Drop Device Operation - Loading and Dropping the Payloads

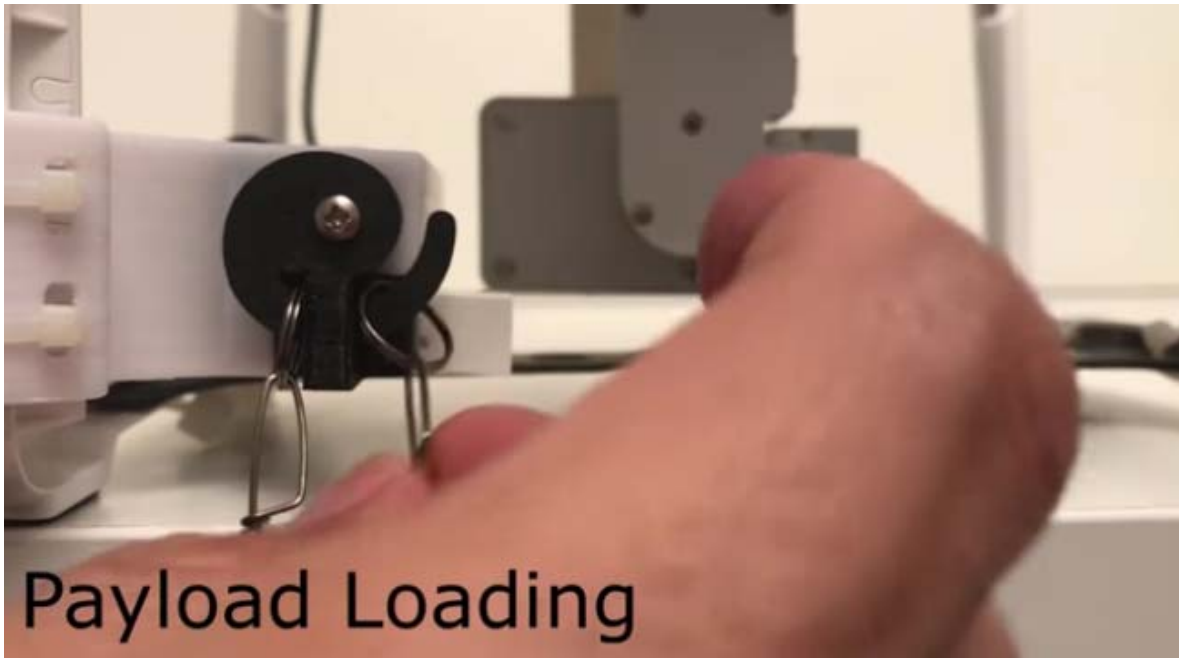


Press twice C1 or C2 button on the Phantom remote controller (or press twice on the Device's FUNC button) and the Drop Wheel will move to its Drop 1 position. Again press twice C1 or C2 button on the Phantom remote controller (or press twice on the Device's FUNC button) and the Drop Wheel will move to its Drop 2 position (Drop 2 position is shown in the picture above). Hang the Second Payload on the Drop Wheel.

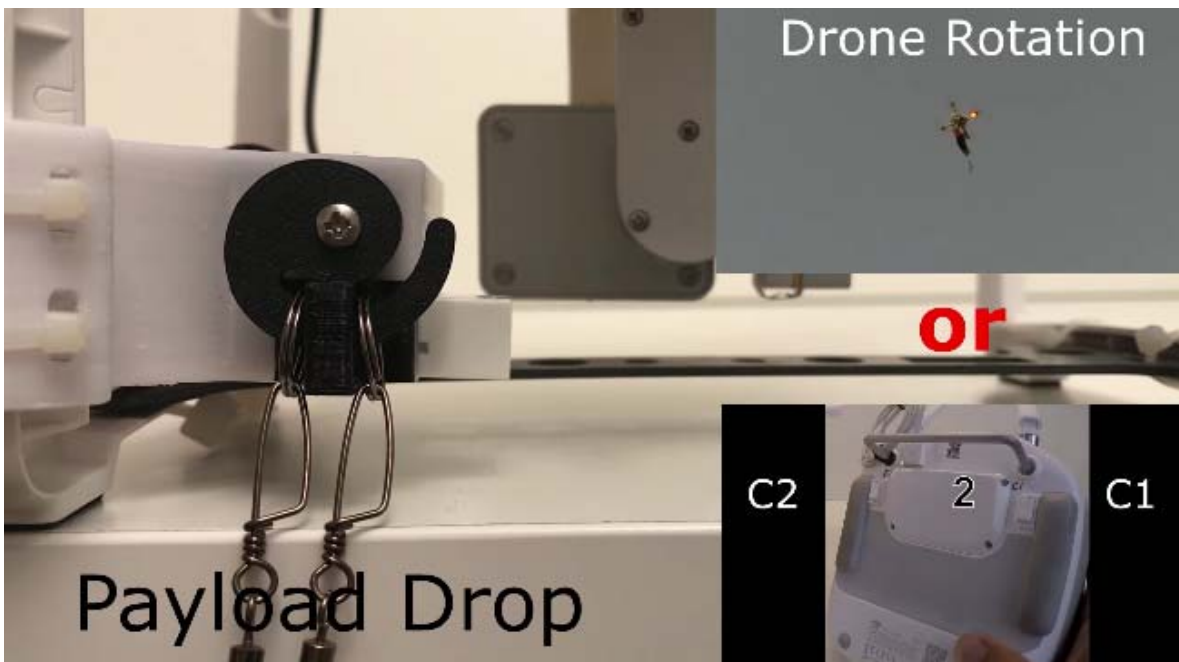


Now press twice C1 or C2 button on the Phantom remote controller (or press twice on the Device's FUNC button) and the Drop Wheel will move to its Ready position (Ready position is shown in the picture above).

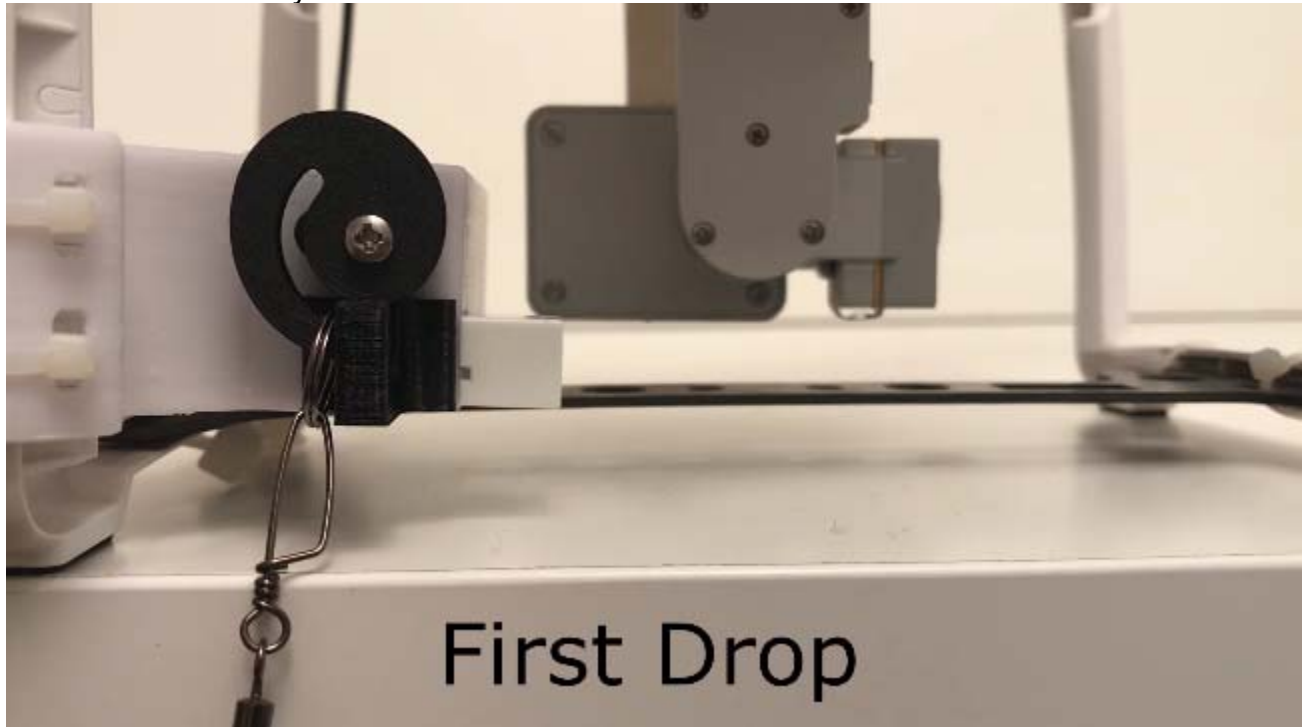




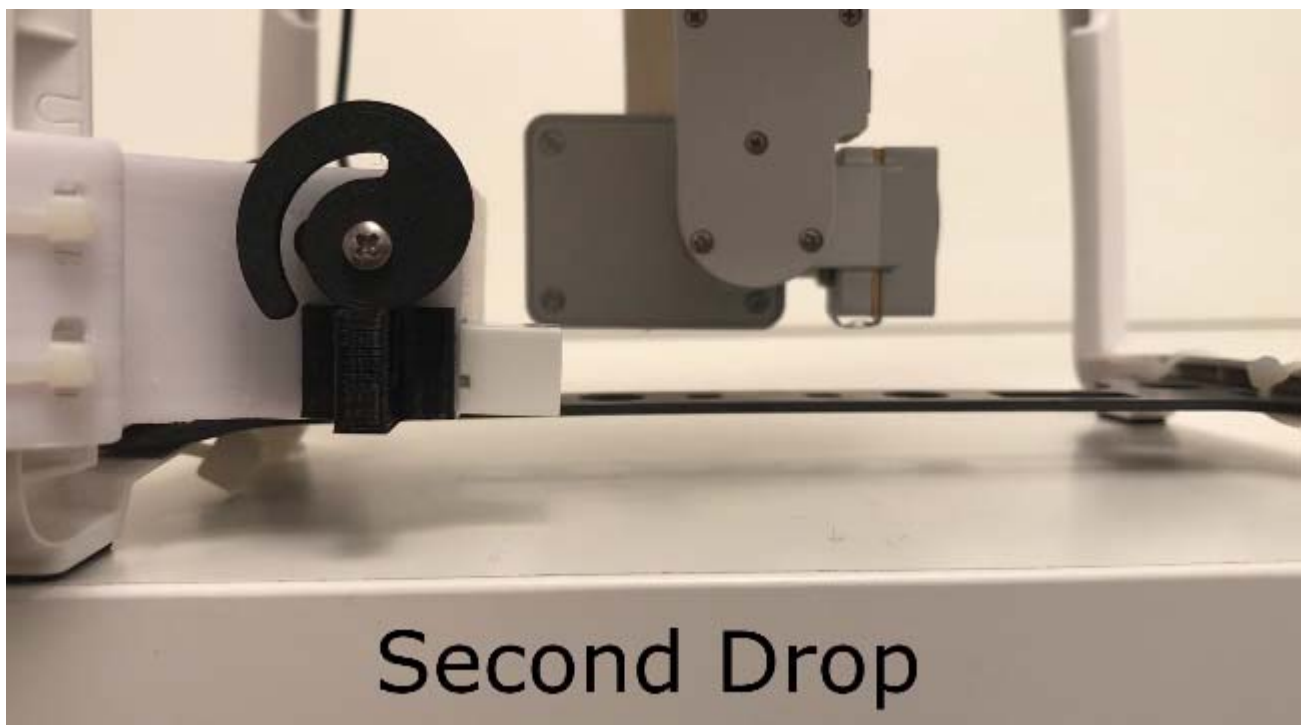
Hang the Second Payload on the Drop Wheel. The Drop Wheel is in its Ready position (Ready position is shown in the picture above).



To Release and Drop the First Payload, press twice C1 or C2 button on the Phantom remote controller or command the drone to perform 2 quick and complete Counter Clockwise turns (or press twice on the Device's FUNC button).



After the Release and Drop the First Payload, the Drop Wheel moved to its Drop 1 position (as shown above). To Release and Drop the Second Payload, press twice C1 or C2 button on the Phantom remote controller or command the drone to perform 2 quick and complete Counter Clockwise turns (or press twice on the Device's FUNC button).



After the Release and Drop the Second Payload, the Drop Wheel moved to its Drop 2 position (as shown above).


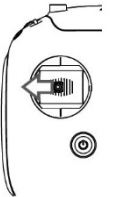
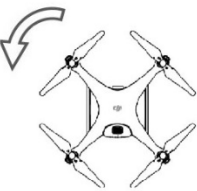


# Operation

## Drone-Sky-Hook Release & Drop Device – Control Modes of the Dual Drop Wheel

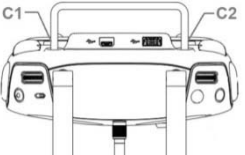
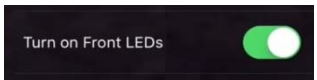
**DSH Models:** Dual Release & Drop / Dual Release & Drop PLUS

### Operation Mode 1 – Drone Rotation

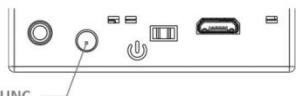
Remote Controller (Mode 2) LEFT STICK	Operation
	<p>Quickly Rotate (YAW) the drone two complete turns counter clockwise to drop the first payload.</p> <p>Quickly Rotate (YAW) the drone again two complete turns counter clockwise to drop the second payload.</p> <p>To set the drop wheel back to its previous position, Quickly Rotate (YAW) the drone again two complete turns counter clockwise.</p>
	

### Operation Mode 2 – Drone Remote Controller C1/C2 Button and/or DJI App

Note: Use the DJI App to assign C1 or C2 button to Turn On/Off front LEDs

Remote Controller C1 / C2 Button	Operation
	<p>Press C1 or C2 twice in quick succession (while maintaining about 0.5-1 second between each press) to drop the first payload.</p> <p>Press C1 or C2 twice again in quick succession (while maintaining about 0.5-1 second between each press) to drop the second payload.</p> <p>To set the drop wheel back to its previous position, again press C1 or C2 twice in quick succession (while maintaining about 0.5-1 second between each press).</p>
DJI App	Operation
<p><b>Settings – Main Controller Settings – Advanced Settings</b></p> 	<p>In the App menu switch the drone's front LEDs ON, then OFF and then back ON or OFF, then ON and then OFF. (Total of one ON-OFF-ON or OFF-ON-OFF cycle) to simulate the operation of the C1 or C2 buttons on the drone's remote controller (see above).</p> <p>Maintain about 0.5-1 second idle duration between each switch operation.</p>

### Operation Mode 3 – Manual – FUNC button on DSH unit

DSH Release & Drop unit	Operation
	<p>Press twice the device's FUNC button to simulate the operation of the C1 or C2 buttons on the drone's remote controller (see above).</p> <p>Maintain about 0.5-1 second idle duration between each operation of the FUNC button.</p>

**IMPORTANT NOTE:** At the end of each operation wait 3 seconds for the execution your command and before the initiation of the next command (False Command Avoidance Algorithm (FCAA)).



# Operation

## Drone-Sky-Hook Release & Drop Device – Control Modes of the AUX Channel (PLUS models only)

**DSH Models:** Single Release & Drop PLUS / Dual Release & Drop PLUS

### Operation Mode 1 – Drone Rotation

Remote Controller (Mode 2) LEFT STICK	Operation
	<p>Quickly Rotate (YAW) the drone two complete turns clockwise to command the AUX Channel to turn ON.</p> <p>Quickly Rotate (YAW) the drone again two complete turns clockwise to command the AUX Channel to turn OFF.</p>

### Operation Mode 2 – Drone Remote Controller C1/C2 Button and/or DJI App

Note: Use the DJI App to assign C1 or C2 button to Turn On/Off front LEDs

Remote Controller C1 / C2 Button	Operation
	<p>Press C1 or C2 three times in quick succession (while maintaining about 0.5-1 second between each press) to command the AUX Channel to turn ON.</p> <p>Press C1 or C2 three times again in quick (while maintaining about 0.5-1 second between each press) to command the AUX Channel to turn OFF.</p>
DJI App	Operation
<p><b>Settings – Main Controller Settings – Advanced Settings</b></p>	<p>In the App menu switch the drone's front LEDs ON, then OFF and then back ON or OFF, then ON and then OFF. (Total of one ON-OFF-ON or OFF-ON-OFF cycle) to simulate the operation of the C1 or C2 buttons on the drone's remote controller (see above).</p> <p>Maintain about 0.5-1 second idle duration between each switch operation.</p>

### Operation Mode 3 – Manual – FUNC button on DSH unit

DSH Release & Drop unit	Operation
	<p>Press three times the device's FUNC button to simulate the operation of the C1 or C2 buttons on the drone's remote controller (see above).</p> <p>Maintain about 0.5-1 second idle duration between each operation of the FUNC button.</p>

**IMPORTANT NOTE:** At the end of each operation wait 3 seconds for the execution your command and before the initiation of the next command (False Command Avoidance Algorithm (FCAA)).