

D-BOX Capsules Distribution Kit

The non-invasive and green alternative to traditional chemical products distributed by big tractors. D-Box can distribute capsules for biological control fast and effectively.



THE OPERATIVE SYSTEM FOR BIOLOGICAL CONTROL

Beneficials eggs for biological control, such as trichogramma brassicae against corn borer and other parasites, can be spread in very large quantities by small light capsules. A light drone properly equipped with the Aermatica3D D-BOX can automatically distribute capsules granting the coverage of a field using the integrated BLY3D software. A light drone with the D-BOX is a valuable equipment for diffusion on big scale of biological treatment methods.

D-BOX presents several advantages such as avoiding the use of big tractors for the spread of chemicals on the fields. Moreover, the use of D-Box eliminates any safety issue for the operators, reduces the negative impact on the crops and on the environment.



FEATURES



3 liters capacity on Aermatica3D BLY-A-EVO, 5 liters on DJI Matrice 300 RTK, 10 liters on DJI Matrice 600



Up to 20 acres per flight. Sensors to verify capsule drop position.



Customizable integration on different kind of drones



Up to 2 capsules released per second at the distance set by the user. 4 dropping channels for redundant and robust distribution.



Drops determined by GPS to grant coverage and quantities per acres. Productivity of more than 250 acres per day



Automatic flight plans and distribution remote control on tablet or DJI Smart Controller by Aermatica3D BLY3D Software. Automatic Distribution report generation



Distributes beneficials in respect of the environment granting longer lasting effects than chemicals at the same cost

KEY CHARACTERISTICS

- Robust and fast distribution due to multiple actuators
- High fault tolerance due to channels redundancy and sensors
- Different kind of capsules distribution
- Variable rate of distribution according to the specific requirements of the operational conditions
- Remote controlled by the software
- Precise dropping position independent from drone speed based on GPS system
- Distribution real time status remotely monitored by the pilot through the BLY3D APP
- Release mechanism adaptable to multiple tanks for different drones
- Interchangeable with others Aermatica3D Kits

OVERVIEW

Total weight (tank excluded): 700g

Dimension: 13*18*10cm

Compatible with Drones with $\geq 1\text{Kg}$ payload

Native integration on DJI Drones with SDK:

- DJI Matrice 100/600/210/210 RTK/300 RTK
- Drones equipped with DJI A3/N3 flight controllers

Compatible with drones other than DJI:

- Stand Alone Configuration controlled by a remote controller
- Integrated on Pixhawk Drones Mavlink compatible

YOUR KIT CAN BE CUSTOMIZED ACCORDING TO YOUR NEEDS

SCAN THE QR CODE AND
WATCH OUR D-BOX VIDEO



Operated on large scale on thousands of acres

AWARDED AS TECHNICAL
INNOVATION AT EIMA 2018
TECHNOLOGICAL INNOVATION
CONTEST



BLY-A-EVO FEATURES

Maximum operative speed: 14 m/s ($> 50\text{ Km/h}$)

Maximum wind resistance: 10 m/s

Operative Temperature: -10° to $+40^{\circ}$

Operative Endurance: $>20\text{ min}$

Tablet and APP BLY3D

- mission planning and control
- automatic flights
- altitude above terrain control
- distribution kit control
- distribution report generation

Rapid refilling of the tank

THE FULL DRONE SOLUTION

D-BOX can be purchased stand-alone or Aermatica3D can provide it installed on DJI Matrice 300RTK, the DJI Enterprise top drone.

Aermatica3D can also provide you with our custom designed and manufactured drone solution, the BLY-A-EVO, an optimized and cost effective alternative.

