

# K-KIT Beneficials Distribution Kit

The sustainable and green alternative to traditional chemical products spraying. K-Kit can distribute light biological products in an easy and precise way.



## THE OPTIMIZED SYSTEM FOR BIOLOGICAL CONTROL

Beneficials are very light products to be distributed and can be spread in easy and precise way by a light drone properly equipped with the Aermatica3D K-KIT and automatically managed by the integrated BLY3D software. A light drone with the K-KIT is an effective tool to aid the diffusion on big scale of biological treatment method.

## FEATURES



Capacity up to 3 liters on 1-2 Kg payload small drones. Customization option for bigger capacities



Up to 15 acres per flight for small drones, with BLY3D Software for optimized automatic flight plans



Customizable integration on different kind of drones



Distributes several beneficials such as predatory mite



Easy calibration of the amount distributed



Integrated software for optimized distribution flight plans and kit real time remote control



Distributes beneficials granting the vitality of the insects respecting the environment



## KEY INNOVATION POINTS

- Capability to properly distribute safely different useful insects on different type of drones
- Different Automatic flight plan modes according to specific beneficials and crops requirements
- Double Variable Control Rate Degrees of Freedom actuation
- Software controlled moving mechanism to enable the possibility for the insects to be properly merged with the dispersion medium during flight
- Not linear insects distribution quantity control through use of the air generated by the drone's forward flight not affecting insect vitality
- Distribution speed measurement sensor system to get proper variable rate distribution quantity with complex algorithm artificial intelligence based to grant the distribution of the right number of insects on the field area
- Distribution real time status remotely monitored by the Pilot by the BLY3D APP on Tablet

## OVERVIEW

**Total weight (empty): 800g**

**Dimension: 20\*20\*30cm**

**Compatible with Drones with >= 1Kg 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 not DJI Drones:**

- 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 K-KIT VIDEO**



**Designed in  
collaboration with  
Koppert Italia**



**AWARDED AT EIMA 2022  
TECHNOLOGICAL  
INNOVATION CONTEST**



## BLY-A-EVO FEATURES

**Maximum operative speed: 14 m/s (> 50 Km/h)**

**Maximum wind resistance: 10 m/s**

**Operative Temperature: -10° to + 40°**

**Operative Endurance: >20 min**

**Tablet and APP BLY3D**

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

## THE FULL DRONE SOLUTION

K-Kit 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.

