

# EnsoMOSAIC Cropdrone



MosaicMill has integrated quad-copter (Geodrone X4L) and Octocopter (X8) packages for precision agriculture. Alternatives and options for system configuration are:

Component	Remarks	Standard set-up	Cropdrone
X4L / X8 UAV	fully autonomous	●	●
Ground Station software	PC excluded	●	●
Flight planning software	Videodrone	●	●
Radio controller	14 channels Jeti Duplex	●	●
Rikola hyperspectral camera	snapshot, 50 bands in UAV		●
EnsoMOSAIC Fusion	photogrammetric, high-end accuracy		●
Training	3 days in Finland		●
<b>Options</b>			
Spare parts set	rotor blades + batteries	○	○
FLIR Tau 2 thermal camera	thermal camera	○	
Sony a6000 CIR/RGB camera	geometrically calibrated	○	○
Reflectance plates	for radiometric calibration		○

## UAV features

- Payload : 0.8 kg / 1.5 kg
- Height 38 cm, Diameter 67 cm
- Flight time (with Rikola HS): 38 / 25 min with standard battery
- camera power from main battery
- Wind resistance > 8 m/s
- Full telemetry data
- go-home safe mode
- Batteries 220Wh, 4 units (1+ 3 spare)
- Battery charger 30A, input 10-30V, tester
- Spare rotor blades, 2 units
- Carbon fiber construction
- Carbon fiber propellers
- Weather-protected electronics
- Camera stabilization
- Bright led lights