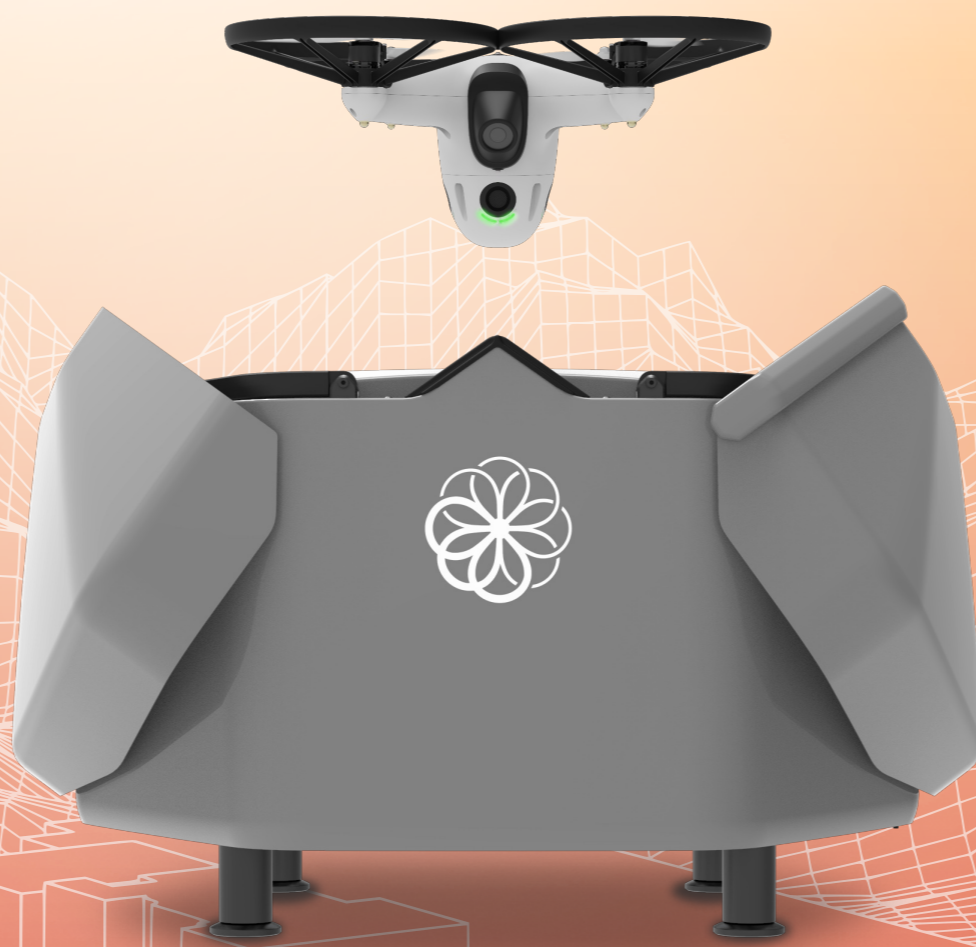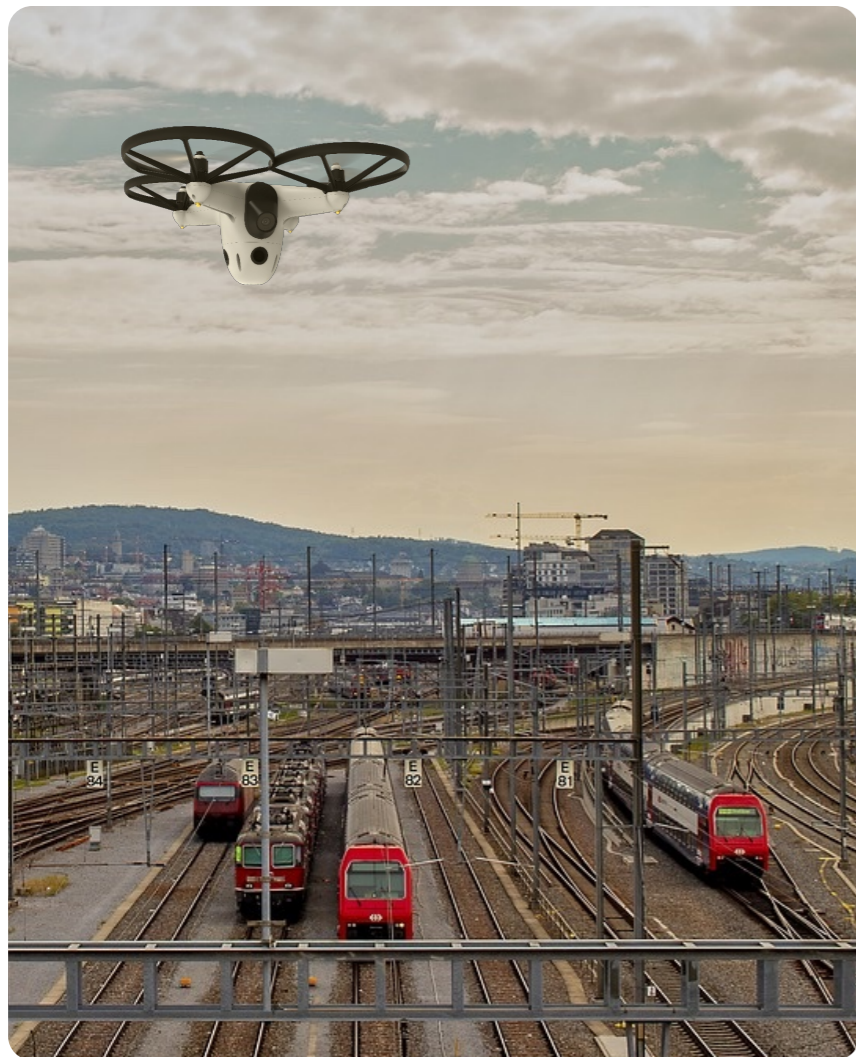# Outside insights for any property

Sunflower Labs® Beehive is a fully-autonomous drone-in-a-box system to observe, secure, inspect and patrol large outdoor properties.

Rapid deployment

Deploys in 5 seconds. Observe activity on any part of a 4-acre property in under 30 seconds.

Proactive deterrence

Actively deter intruders and loiterers with an immediate drone presence.

Geofenced operations

The Bee navigates safely and stays within a pre-defined geofence at all times.

Real-time obstacle avoidance

The Bee detects unexpected obstacles and re-routes to avoid collisions.

Object tracking & identification

Get clear visual confirmation through a high quality live video stream, even in low light conditions.

Autonomous navigation

The Bee automatically plans a path, performs a sweep, avoids obstacles, and lands back in the Hive.

Reliable landing and charging

The Bee is uniquely designed to reliably and safely land and recharge in the Hive each time — even in strong winds.

Works in 99% of weather

Whether it's sun, snow, wind, or everything in between, the Beehive system can operate in almost all weather conditions.

The advantages of the Beehive compared with traditional security solutions

	BEEHIVE SYSTEM	TRADITIONAL SECURITY
Distance covered in 15 mins	5 km or 3 miles	1/2 mile by foot
Response time	under 30 seconds	more than 5 minutes
Hourly cost	$5 per hour	$20-35 per hour
Installation time	4 hours	several days to weeks

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Technical specifications

The Bee

Designed for safety and performance, the lightweight drone features sophisticated technology for autonomous flight, high-quality video capture and accurate landing and charging, each and every time.

Weight:
1.56 kg / 3.4 lb (battery included)

Body Size:
28 x 28 x 21 cm / 11 x 11 x 8.3 inches

Full Size:
48 x 48 x 21 cm / 19 x 19 x 8.3 inches

Propeller Size:
22.9 cm / 9 inches

Cruise Speed:
14.5 kph / 10 mph / 4 m/s

Operational Flight Time:
15 minutes (+5 min. safety reserve)

Wind Speed Resistance:
30 kph / 20 mph

Gust Resistance:
50 kph / 30 mph

Operational Temperature:
-10°C to +40°C / 14°F to 104°F

Hover Accuracy:
1 foot

GPS:
Multi-band multi-constellation RTK

Camera Sensor:
Sony IMX385 low-light sensor (>0.1 lux)

FOV:
50° (v), 100° (h)

Image Resolution:
1920 x 1080 HD @ 25fps

Bandwidth Requirement:
3+ Mb/s

Video Latency:
~250 ms

Obstacle Detection Range:
6 meters / 20 feet

Max Transmission Distance:
600 meters / 2,000 feet

Battery Capacity:
4000mAh

Recharge Time Ratio:
1 : 1.5 flight time to recharge.
(2 min flight = 3 min recharge)

The Hive

The Hive not only houses and charges the Bee — it's the brains of the entire system, processing and analyzing sensor data using state-of-the-art embedded AI computing.

Weight:
35 kg / 77 lb

Dimensions when Closed:
86 x 80 x 80 cm / 31 x 34 x 35 inches

Dimensions when Opening:
98 x 80 x 63 cm / 31 x 47 x 31 inches

Power Supply:
110V or 220V AC

Runtime on Backup Battery:
1 hour

Connectivity:
Ethernet + optional 5G/LTE modem

Operational Temperature:
-20°C to +50°C / -4 °F to +122 °F

Call Today for a demo: (202) 595-2884