LaserFly

Agricultural robot for sustainable pest & weed control

- Laser-based pest & weed control
- 24/7 autonomous operation
- Free from pesticides & herbicides
- Battery powered & light weight
- Easily adaptable to various pest & weed

Features

- 100 W qcw diode based laser system (per laser)
- Modular & scalable design
- 2,94 µm laser for high efficiency & safety
- Ideal for no-till farming
- Minimal fire hazard (non-burning technology)
- Patent pending detection & targeting setup

Specifications

- Dimensions: ~ (160 × 110 × 90) cm^3
- Weight: ~ 140 kg
- Operation time: ~ 8 hrs
- Charging time: ~ 4 hrs

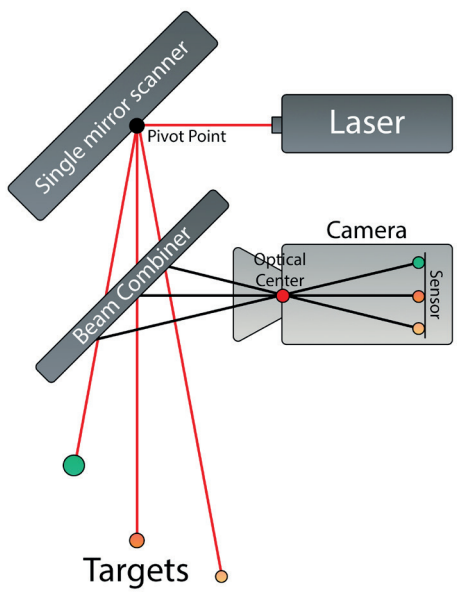
Performance (per laser)

- 300 beetle larvae shots / min
- 150 small weed cuts / min
- Field of view: 90° H x 30° V
- Adaptable motion platform speed up to 1 km/h

Intelligent Targeting

Fast object detection enabled by advanced AI algorithms, ensures accurate and automated targeting.

- Coordinate transformation in 2 dimensions
- No depth information required
- No object matching required



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