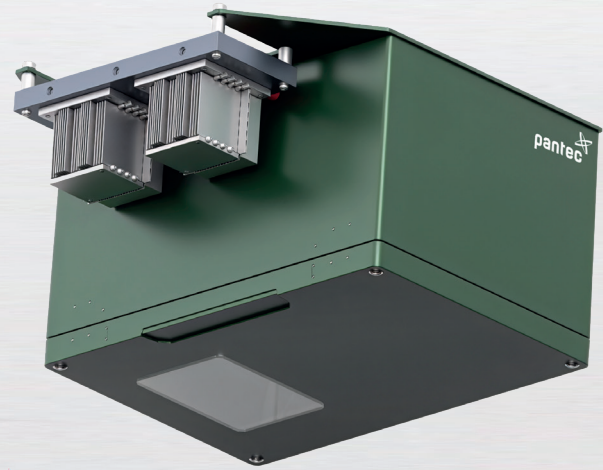


# Detect & Laser Treatment-System

For sustainable pest & weed control



- Laser-based pest & weed control
- 24/7 autonomous operation
- Free from pesticides & herbicides
- Independent of motion platform
- Easily adaptable to various pest & weed



## Features

- 100 W qcw diode based laser system
- Modular & scalable design
- 2,94  $\mu\text{m}$  laser for high efficiency & safety
- Air-cooled & sealed enclosure
- Minimal fire hazard (non-burning technology)
- Patent pending detection & targeting setup

## Specifications

- Dimensions:  $\sim (30 \times 20 \times 10) \text{ cm}^3$
- Weight:  $\sim 3,2 \text{ kg}$
- Interfaces: ISOBUS, Ethernet, RS232, WLAN, ROS 2 compatible
- Power consumption:  $< 100 \text{ W}$

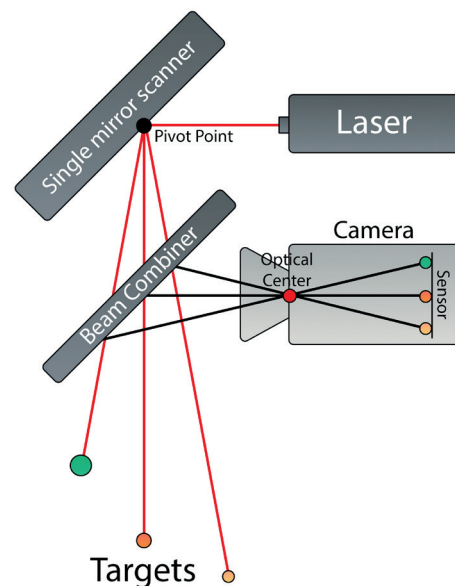
## Performance

- 300 beetle larvae shots / min
- 150 small weed cuts / min
- Field of view:  $90^\circ \text{ H} \times 30^\circ \text{ V}$
- Adaptable motion platform speed up to  $1 \text{ km/h}$

## 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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400297-DTS DLT-Box