

# Zyklop™ - Laser drone shield

Common Aperture Detection & Laser Engagement



## Product description

Zyklop™ is a common aperture detection and laser engagement system for small drones, UAS group 1, in proximity of less than 1 km. The optical layout enables a large field of detection (30°) and engagement (20°) by high speed beam steering of a focused laser (1.5 kW), capable of 20° deflection in less than 15 ms.

## System integration

Zyklop™ can be stationary mounted or fit onto existing carrier vehicles for mobile deployment. The system is optimized for fast setup and features an automatic, on site calibration routine.

## Common aperture for

- High power laser (1.5 kW, NIR)
- Green pilot laser (1 W)
- Range finder (1.5  $\mu\text{m}$ )
- Visible camera
- MWIR camera

## Performance

- Field of view: 30° H x 30° V
- Field of engagement: 20° H x 20° V
- Step response (optical): < 15 ms for 20°
- Stability (optical): < 5  $\mu\text{rad}$

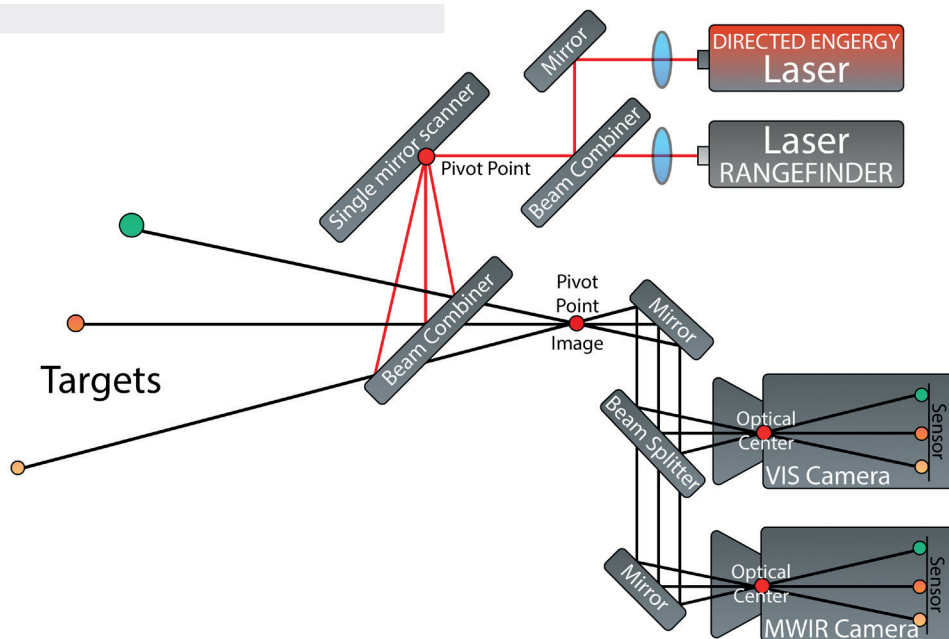


## Physical

- Dimensions: (50 x 30 x 30)  $\text{cm}^3$
- Weight: < 50 kg (Combiner without gimbal)
- Optical interface: Fiber ports
- Electrical: Industry standard interfaces



## Optical layout



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