



BASILISK[®]

UAS Detection and Tracking



The threat from UAS is pervasive and complex. Basilisk defends against:

- ISRs
- Decoys
- Indirect weapons deployment
- Direct weapon delivery
- Comms relay
- Swarms

Key Features

- Detection and tracking in high clutter environments
- Backpackable – low-SWAP-C
- Rapid deployment by a single person
- Employment over a long distance in small vehicle or by an individual
- Self-contained
- Rugged packaging
- Low Cost



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Technical Specification

Pixel Size	3.45 um
FOV	180 x 47 degrees
IFOV	288 μrads
Frame Rate	5 Hz
Detection Range	> 1 km DJI 1
Size	9.7 x 7.3 x 6.2 inches
Weight	10 lbs
Power	150 W (Max)
Voltage	9-50 V DC

Simultaneous Drone Detection



Areté provides a compact low-cost passive solution

Robust Detection in Variable Clutter

Target Against the Sky

$R_{SN} = 64.16$
$R_{SB} = 0.94$
$C_{SB} = -0.06$
$R_{CN} = 1.03$
$R_{SC} = 62.37$

Target Against the Mountain

$R_{SN} = 0.0675$
$R_{SB} = 0.99$
$C_{SB} = -0.01$
$R_{CN} = 4.10$
$R_{SC} = 0.017$



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