



ADVANCED CENTRIC SYSTEMS B.V

**MICRO-SIZE VERSATILE ELECTRO-OPTICAL SURVEILLANCE
PAYLOAD FOR SMALL UAS & MULTICOPTERS**

Product brochure



THE PROBLEM

Small unmanned airborne platforms, both fixed-wing and rotary-wing, are employed more and more extensively for surveillance and tactical intelligence purposes. For example, some military organizations currently employ small UAVs for 'over-the-hill' tactical surveillance missions even at the company level.

Owing to the size and weight restrictions that apply to these platforms, the payloads they may carry cannot be as elaborate and versatile as the higher-capacity payloads carried by larger platforms. Nevertheless, these platforms should be fitted with the best possible surveillance payloads available in this size category.

THE SOLUTION

ACS presents Micro-VESPA – Micro-Size Versatile Electro-Optical Surveillance Payload for small UAS and multicomputer.

Micro-VESPA is an ultra-compact electro-optical surveillance payload designed specifically for small unmanned aerial platforms, both fixed-wing and hovering. Measuring only 4.5" across by 190mm high and weighing only 1.1kg, this payload accommodates a daytime camera and a thermal imager in a single compact and lightweight capsule. Best-in-class sensors and effective mechanical stabilization guarantee excellent image quality.

KEY FEATURES & MAJOR ADVANTAGES

Key Features & Major Advantages

- Ultra-compact surveillance payload for small unmanned aerial platforms
- Effective stabilization for excellent image quality
- Day and night operation
- Line replaceable sensors
- Specifications:
 - Dimensions: 4.5" diameter, 19cm high
 - Weight: 1.1kg
 - Daytime camera: full HD color 1080p, FOV 3.3° to 59°
 - Thermal imager: 640x480 pixels, FOV 18°
 - Field of regard: +20° to -90° (tilt); nx360 (pan)

- Gimbal stabilization: 80 μ rad RMS
- Gimbal angular velocity: 150°/sec.
- Communication port: RS485
- Video: HDSDI analog
- Power source: 12VDC
- Power consumption: 25W
- Shock: 20G, 5ms
- Vibrations: 5grms 20-2000Hz
- Temperature range: -10°C to +40°C
- Standard compatibility: MIL-STD-810, MIL-STD-461C

