



apixa

Vision Intelligence for Defence



Defence

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Since 2007, Apixa has developed over 100 innovative computer vision and AI solutions across a broad range of industries, including specialised applications in the defence industry.

As an active member of several military consortia, we perform cutting-edge research and transform concepts into robust and reliable systems.

Our Technologies



Computer
Vision



Deep
Learning



Imaging
Technologies



Hyperspectral
Imaging



3D
Vision



Optical
System Design



Calibration



Edge & Cloud
Computing



GPU
Processing

Domains of Expertise

■ Optical Design

Development of custom optical solutions, including integration of various sensor technologies (e.g., RGB, 3D, thermal, and hyperspectral)

■ Multi-View, Multi-Modal Imaging, and Sensor Fusion

Integrated imaging from multiple viewpoints and sensor types for richer spatial and semantic insight

■ Simultaneous Localisation and Mapping (SLAM)

Real-time spatial awareness and precise navigation in dynamic operational conditions

■ Object Detection and Tracking

Identification and continuous tracking of objects with high precision across diverse scenarios

■ Person Detection and Motion Capture

Accurate detection, pose estimation, and motion capture for a wide range of applications

■ Anomaly Detection

Advanced AI models for fast, reliable detection of outliers and deviations in complex data streams

■ High-Speed Camera Systems and Event-Based Cameras

Ultra-fast imaging solutions for capturing rapid motion and high-dynamic-range scenes beyond conventional limits

■ Data Legislation Compliance

Adhering to data protection regulations, ensuring full compliance with GDPR and the AI Act to guarantee the ethical and secure handling of data



About Apixa

Apixa is specialised in resolving challenging **computer vision** problems.

Since 2007, Apixa has been providing services and solutions in various areas of computer vision, including **deep learning** and **artificial intelligence**, imaging technologies, hyperspectral imaging, 3D vision, optical system design, calibration services, edge & cloud computing and GPU processing.

Over the years, Apixa has engaged in a multitude of **research-oriented** and **industrial automation** projects. Our customers include renowned international players, high-tech niche players and a range of other organisations.



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