energisolv

COMPANY OVERVIEW & STRATEGIC PARTNERS

2022

Artificial Intelligence

Oil & Gas

Security

Drone Geomapping

Pipeline Surveillance

Energy

System Integrations

About EnergiSolv

EnergiSolv Limited was birthed out of our ambition to solve problems that have never been solved before. EnergiSolv is a leading enterprise AI software provider for accelerating digital transformation. The proven EnergiSolv Application Platform provides comprehensive services to build enterprise-scale AI applications more efficiently and cost-effectively than alternative approaches.

❯ Artificial Intelligence

Solve complex business problems by augumenting human competencies with AI.

❯ Machine Learning

Convert your data points to insights and drive profit by predictive forecasting.

With our world class team, our Application Platform supports the value chain in any industry with prebuilt, configurable, high-value AI applications for reliability, supply network optimization, energy management and customer engagement. Through our partnerships we are licensed to fly drones in Nigeria

❯ Data Analytics

We help teams extract useful insights from huge amount of data collected towards business growth.

What We're Into

❯ Telecommunication & Financial Institutions:
Artificial Intelligence solutions that address problems in communication, cyber security and digital transformation.

❯ Manufacturing
AI systems that improve logistics management, prevent HSE hazards, simplify inventory management.

❯ Energy
Our smart drones and cameras can be used for real time monitoring of production assets, pipeline infrastructure and barging/marine operations.

Photo Gallery: SEPLAT Technology Week

sparkcognition™

AI PERFECTED FOR BUSINESS

SparkCognition's AI solutions predict future outcomes, optimize processes, and prevent cyber-attacks.

We do this by analyzing and learning from all types of data, augmenting human intelligence.

SparkCognition is making AI a **Reality.**

- Visual AI deployed on 25,000+ cameras across 16 countries
- Logistics AI used to move 3 billion barrels of oil globally
- SkyGrid installed on 30,000 drones across 100+ countries
- AI for Renewables currently managing 8.5 GW of capacity
- Sensor fusion tech deployed in one of the world's largest maritime exercises
- Maintenance AI in use on our F-16 fleet
- Best in class predictive maintenance deployed on many of the world's most productive oil rigs

Our Products Across Industries

AI in Energy:
O&G Maintenance Advisor

- AI solution designed specifically for O&G applications
- Anomaly detection and predictive maintenance based on advanced machine learning models
- Manage events/alerts and use prescriptive analytics to find patterns, improve models, and perform root cause analysis

Case Study - Oil & Gas

Analyze time series data collected from hundreds of data points to identify future events.

We aim to deliver world-class AI solutions that allow you to solve your most critical problems, empowering you to run a more sustainable, safer, and profitable business. SparkCognition's award-winning AI solutions predict future outcomes, optimize processes, and prevent cyberattacks. We partner with the world's industry leaders to analyze, optimize, and learn from data. We augment human intelligence, drive profitable growth, and achieve operational excellence.

AI and Cybersecurity:
Cybersecurity on AI
- AI-based, next-gen anti-virus protection
- Zero-day threat protection including ransomware
- Online/Offline protection (air gapped)
- IT/OT support
- Legacy operating system (OS) support

Available From Our Partners:

Lenovo SIEMENS Secureworks SGS

Vision AI:
- **Ingress Egress**
- **Queueing Analysis**
- **Fuel Efficiency**
- **Warehouse Productivity**

Safety Moment and AI:
HSE - Identify Risks
There is an enormous amount of information to manage existing and unknown risks available throughout the corporation. This information is too large to comprehend.

Risks can be identified and managed by analyzing both structured and unstructured data.

Identify unknown risks – Improve safety.

Experts in Electro-Optics & Infrared Technology Since 1982

Since 1982, HGH designs, develops, assembles and sells electro-optics systems for industrial, civil, defence and security applications. The company has established itself as an international reference in terms of innovation in infrared technology, through the development of multiple advanced sensors.

Worldwide Leader in Innovative High-Value Optronics Business and Technologies

By leveraging our unique expertise in infrared technologies and optronic systems, HGH has focused on high-technology and high-value added application niches at a global scale, including wide area surveillance for protection of critical infrastructures, test & measurement supporting a wide range of calibration and test equipment from UV to SWIR and industrial thermography for thermal process control monitoring.

SECURING OIL & GAS ASSETS
with SPYNEL® Panoramic Thermal Solution

360° SITUATIONAL AWARENESS AROUND OIL & GAS FACILITIES

The SPYNEL® panoramic thermal solution enables to monitor – with one single camera – the immediate surroundings of Oil & Gas facilities and to anticipate asymmetrical threats. This field-proven solution offers a real-time panoramic video display, enhanced by cutting-edge detection analytics such as Artifical Intelligence (AI) modules, automatic classification, behaviour analysis and sets of automated actions adapted to the criticity of the threats. SPYNEL solutions can be deployed in any challenging weather environment and easily interfaced with counter-reaction devices (searchlights, acoustic devices...).

KEY FEATURES

- Enhanced situational awareness
- Early warning detection (up to 500km2 on vehicles and rubber boats)
- Automated classification, simultaneously on multiple targets
- Detection of unconventional threats (rubber boats, stealthy boats, swimmers…)

- Advanced alarm customization (trajectory analysis, virtual line crossing, speed, AIS…)
- Integration with third-part VMS (ONVIF compliant)
- Minimal logistics (cabling, mast), deployable in remote locations
- User friendly & compact software interface

360°

Shenzhen Smart Drone UAV Co., Ltd. (proudly known as SMD), as the class-leading industrial UAV application solution provider which headquarters in the "Chinese Silicon Valley of Drones", is dedicated to the development of state-of-the-art industrial UAVs and providing world-wide customers with excellent product experience. Founded in 2014, SMD is a professional company committed to the R&D, manufacturing and sales of professional UAVs.

Inspired and driven by the impetus of extreme innovation, SMD continues to make vast investment in R&D labs, top-of-the-line instruments and devices, which result in hundreds of invention patents. Thanks to SMD's endless pursuit of product excellence, it has now developed various outstanding industrial-grade UAVs, especially V200, V330, and V380. These amazing drones are tilt-rotor VTOL fixed-wing type, which combines the technical advantages of VTOL and fixed-wing drones, and are widely being used in various industrial applications including security and defense, logistics, survey and mapping, inspection, etc.

V330pro

50KM [31.07mi] CONTROL RANGE
2.5 hr + ENDURANCE
Up to 2.5 kg [5.51lb] USEABLE PAYLOAD CAPACITY
30000mah * 2 POWER SUPPLY

The **V330pro** is an electric vertical takeoff and landing (VTOL), fixed-wing unmanned aircraft used to provide multi-sensors services. Runway independent, the V330pro UAS could be set up and operation within less than 20 minutes and be recovered within less than 15 minutes. With a 30X optical zoom and thermal imager weighted within 2kg. V330pro flight time is up to 2.5 hours and maximum control range is up to 50km. In addition to the multi-mission payload bay and superior optics, the V330pro features the advanced flight control system and ground control station offering a fully customisable and modular UAS that can meet operational or client requirements.

SPECIFICATIONS

WINGSPAN	3.14m [10.3 ft]
LENGTH	1.66m [5.45ft]
USEABLE PAYLOAD	CAPACITY Up to 2.5 kg [5.51lb]
ENDURANCE	2.5 hr @2kg [4.41lb]
CONTROL RANGE	50km [31.07mi]
CURISE SPEED	85km/h [52.81mph]
MAXIMUM SPEED	118km/h [37.32mph]
OPERATING TEMPERATURE	-10 °C ~60 °C [14°F~140°F]
PACKAGE SIZE	1.785m*0.59m*0.69m [standard version]

SMD-01D 30X OPTICAL ZOOMER
- LWIR 640*512
- VIDEO OUTPUT HD-SDI/1080P/30Hz
- 3-AXIS
- OPERATING TEMPERATURE -20 °C ~60 °C [-4°F~140°F]

SMD-01A 30X OPTICAL ZOOMER
- RANGE FINDER 1km
- VIDEO OUTPUT HD-SDI/1080P/30Hz
- OPERATING TEMPERATURE -20 °C ~60 °C [-4°F~140°F]

SMD-01D 30X OPTICAL ZOOMER
- VIDEO OUTPUT HD-SDI
- OPERATING TEMPERATURE -20 °C ~60 °C [-4°F~140°F]

SWITCHABLE SENSORS
Advanced day and night imaging system providing onboard tracking, image stabilisation with H.264/5 compression.

DATA LINKS
Offers downlink to ground and the ability to communicate through various frequencies with encryption.

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