OFIL Systems Group

Company Overview



2024

Innovative Inspection Solutions

The world's leading provider of Solar-blind UV (daytime) Non-destructive Testing technology

We help keep electrical assets' health, reliability and resilience by supporting predictive maintenance with innovative, smart inspection solutions that pinpoint, visualize and record Corona partial discharge

Company Brief

1993

Founded

7



Sites

+50

Employees

100~

Countries (thousands of systems)

Served Industries

Electrical Utilities	Manufacturers (MV/HV Devices)	Heavy Industries	Service Companies	Railways
Generation	**Motors & Generators**	**Mining**	**Inspection Service**	**Overhead Lines**
Transmission	**Insulators**	**Oil & Gas**	**Service Companies**	**Traction Substations**
Distribution	**Cables**	**Chemical**	**Aerial Inspection Services**	
Substations	**Transformer**	**Metallurgy**	**(Helicopters / Drones)**	
	Switch Boards	**Others**	**Audits Services**	
	Others			
Save costs by reducing downtimes and increasing overall efficiency	Improve the manufacturing quality processes and increase the yield	Inspect from a distance to ensure safety of workers	Detect more potential failures for customers	Save costs by early detection of failures

Among Our Customers



Our Solutions



OFIL Systems' Solution:

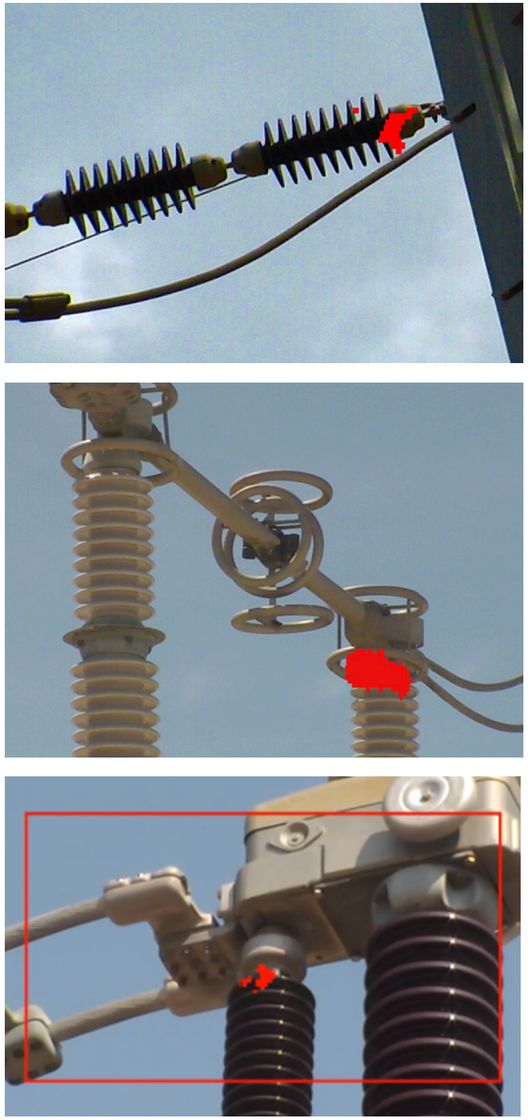
Ensure the Reliability and Health of the Power Grid

The growing demand for power, aging infrastructure, and overloading of grids are leading to an increasing number of failures. These issues disrupt the continuity of electricity supply, cause unexpected outages, and lead to significant financial losses.

Over **85%** of disruptive failures in high voltage and medium voltage equipment are Partial Discharge (PD) related.

OFIL Systems' technology detects PD-related faults in an early stage in transmission & distribution systems, substations, switching stations, etc.

Pinpointing Corona Partial Discharge and addressing potential equipment failure guarantees the reliable operation of the electrical components



Early detection of faults in power systems using OFIL's camera

OFIL Systems' Solution:

Renewable Energies: Biomass, Hydrogen, Solar, Wind, Hydroelectric, Geothermal

Substations



Power Transformers



HV Reactors



Transmission lines



Air insulated switchgear



OFIL Systems' Solution:

PD Localization in Generators & Electrical Motors

Partial Discharge (PD) in high-voltage electrical devices such as motors & generators, causes damage to insulation and degrades the performance of the machines over time.

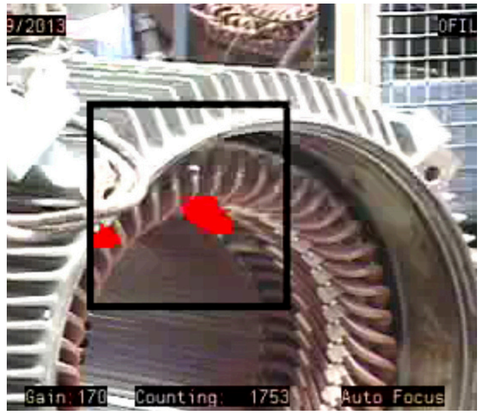
56% of generators failures are due to insulation damage.

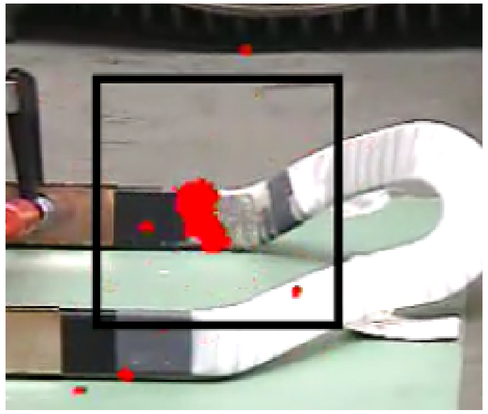


Motor Insulation failure due to PD

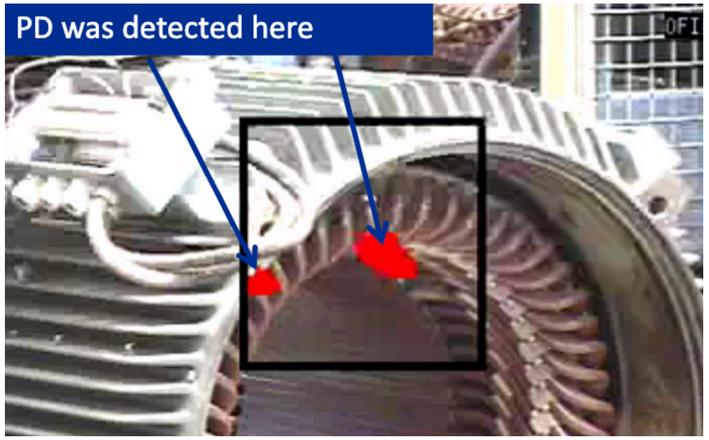
Pinpointing and Localizing the PD assists manufacturers of high-voltage machines and components to repair the faults and improve the quality.

Early detection of faults in generators using OFIL's camera



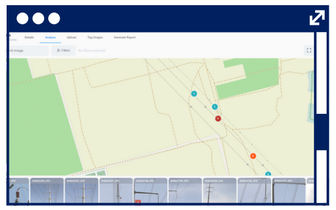






OFIL Systems Portfolio

Gridnostic



SW Solutions



Handheld





UAV



Core Cameras

OEM Integration



Airborne Helicopter

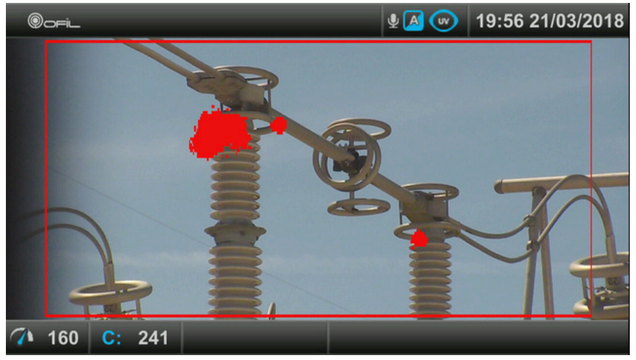
Helicopter Gimbals

Gridnostic

Advanced Diagnostics, Intelligent Decisions
Enhance your data management capabilities with our expertise

- **Global utility experience**: Working alongside hundreds of utilities globally, from various geographies, sizes and deployments, to refine maintenance strategies and diagnostics.
- **Holistic Solution**: Improves the effectiveness of interpreting UV, RGB, and thermal inspection results, designed to simplify processes and deliver actionable insights.
- **Strategic Development**: This product was developed based on research and guidelines from the Electric Power Research Institute (EPRI).

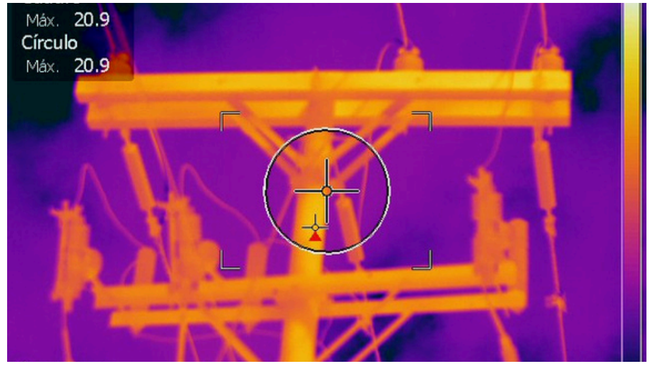
UV

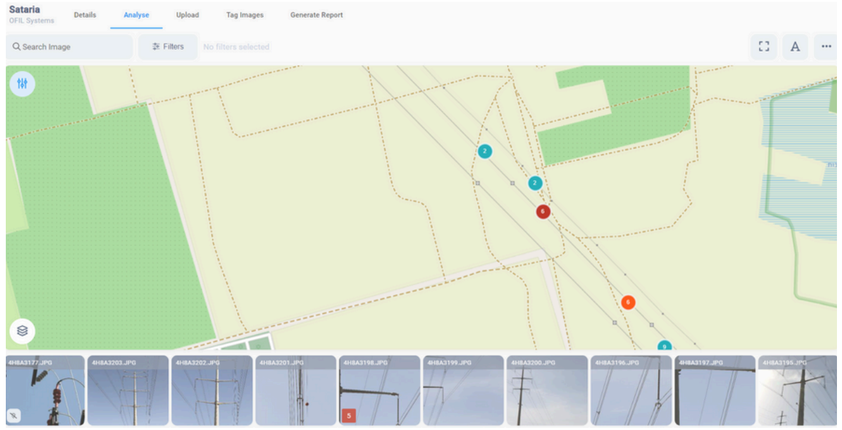


RGB



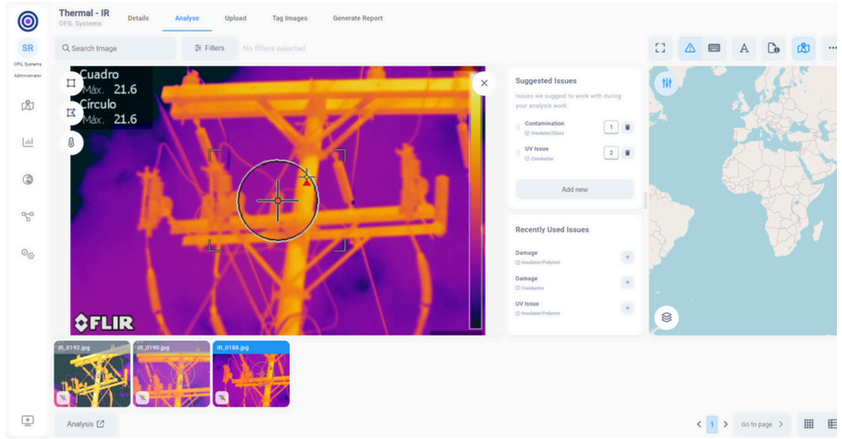
Thermal





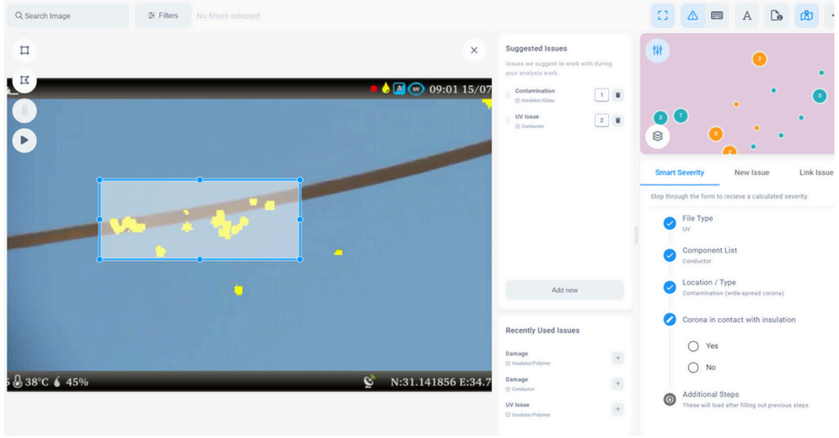
Map Display

Pictures are color-coded according to their severity levels, allowing for quick visual assessment of priority areas.



Analysis Interface

Comprehensive interface for analyzing the inspection data.



Severity Diagnostic Tool

Dynamic, interactive evaluation interface that guides the determination of numerical severity scores.



Thank you!

We'd be happy to share additional information and answer any questions you may have.