

DayCor® UV EyeScope

In the world of critical electrical systems, the growing demand for power, aging infrastructure, and overloading of grids are leading to an increasing number of failures. The need for reliable solutions to ensure uninterrupted power supply and to efficiently manage the health of the electrical grid has never been more critical.

Spotting the Invisible: The Role of Corona Partial Discharge (PD) and Arcing Detection

Identifying corona PD and arcing is crucial in preventing power system failures. Early detection enables timely interventions to avoid costly and disruptive outages, maintaining system stability and performance.

DayCor® Technology Inside

Experience unmatched clarity and performance with OFIL's proprietary DayCor® technology. This camera sees the unseen by detecting corona PD and arcing, utilizing solar blind UV technology that operates in full daylight, unaffected by solar radiation. It captures a spectral range of UVC 240-280nm, ensuring superior detection capabilities.



DayCor® UV EyeScope HD

Solar Blind UV Camera is a camera core for OEM integration, specifically designed to detect and pinpoint corona PD - a major but often unseen hazard to electrical equipment.

It's compact, lightweight, has a wide field of view, precise fault pinpointing, high-definition imaging and powerful zoom for precise corona PD detection.

The camera has an IP65 environmental protection rating, ensuring it delivers optimal performance even in challenging weather conditions. It is easy to integrate via its API.

Product Key Features

Sensitivity:
Sensitivity to PD detection at 1pC @ 8m, certified by Eurotest lab.

Precise Pinpointing:
Ensures accurate fault localization.

HD Resolution:
720p video for detailed imaging.

Wide Field of View:
Expanding your vision for comprehensive, efficient inspections.

Non-Destructive Testing:
Allows for safe inspections from a distance of up to 40 meters*

Environmental Protection IP65:
Offers robust protection against dust ingress and low-pressure water jets.

Easy to Integrate:
Quickly connect and control through API, ONVIF support, customizable UV thresholds for setting alerts.

Pan & Tilt Compatibility:
Supports versatile positioning options for optimal coverage and fault detection.

Interface:
Ethernet.

DayCor Inside:
Embedded with proprietary DayCor technology for superior performance.



*The inspection distance can vary according to environmental conditions and corona PD intensity



Integrated Precision, Unmatched Clarity.

- Stay ahead of electrical failures with **reliable corona PD detection**.
- Streamline your operations and maximize efficiency:** designed for seamless integration into OEM systems, trains, and real-time monitoring.
- Detect with confidence and diagnose with clarity:** deliver sharp, clear visuals for precise fault identification.
- Easily connect** with existing monitoring systems for automated analysis.

Applications



Continuous Monitoring of Substations & HV Components

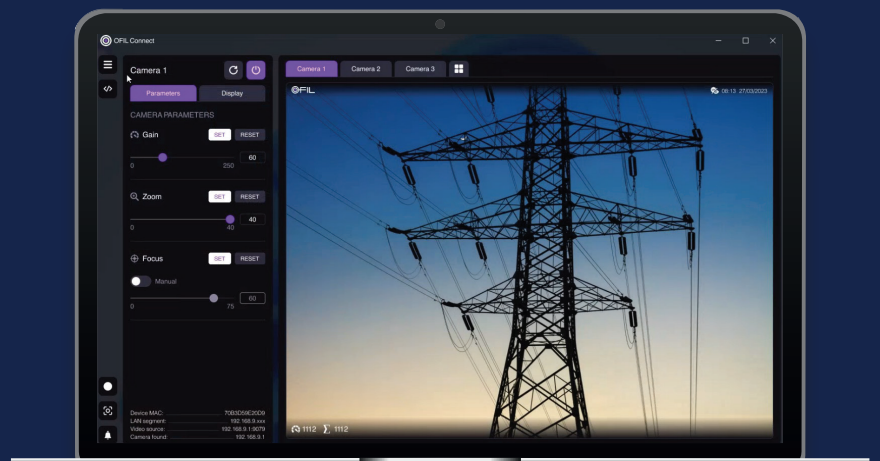
Robot-Mounted Installations | Fixed Installations | PTZ Systems



Integration in OEM systems

Product Accessories

- Connect Software:** Windows-compatible software designed for seamless remote control of DayCor® cameras. Offering remote access, multi-camera support, and real-time monitoring directly from your computer.





TECHNICAL SPECIFICATIONS

UV - OPTICAL PROPERTIES

Minimum Discharge Detection	1pC @ 8 m Tested & certified by Innogy SE-Eurotest Germany: IEC 60270:2000
Minimum UV Sensitivity	7.8 x 10 ⁻¹⁸ watt/cm ²
Field of View	H: 20° V: 11.25°
Focus	Auto focus
UV Zoom	3x digital continuous zoom; UV & Visible channels sync
Spectral Range	240-280nm

VISIBLE - OPTICAL PROPERTIES

Video Standard	HD, 720p ,1280 X 720px
Field of View	H: 20° V: 11.25°
Focus Range	5m to infinity, automatic & manual
Visible Zoom	3x optical

DATA OUTPUT

Video Out Standard	HD 720p
Streaming Format	Real Time Streaming Protocol - RTSP
Video Compression Standard	H.264

I/O & CONTROLS

I/O Interfaces	1GB Ethernet bi-directional
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ENVIRONMENTAL

Storage and Operation Temp	-20°C up to +55°C -4°F up to +131°F, fan less
IP Rating	IP 65

PHYSICAL CHARACTERISTICS & POWER SOURCE

Weight	1.6 Kg 3.5 lb
Dimensions	L21.8 x W14.1 x H10.1cm 8.58" x 5.55" x 3.96"
Nominal Power Consumption	12V DC, 36W
Mounting Interface	Standard M5 (x4) screw fixture, on the bottom cover

ACCESSORIES

Connect - Remote Control Desktop Software