

Dear Electric Utility, Surveillance, and UVc Professional.



We want you to know that EKLUND INFRARED/Eklund Innovation Inc. have Ofil DayCor® Superb™ Corona Detection Cameras available for Rental!

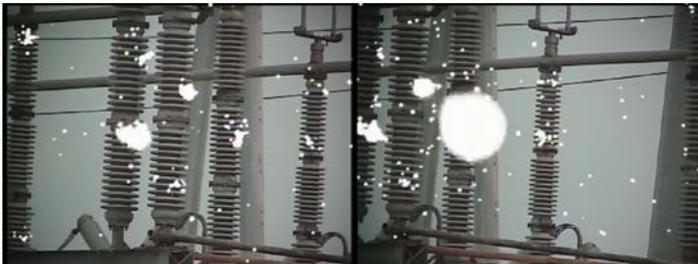
It is important to detect and correct **Electrical Corona Discharges** on electrical HV equipment, substations, transmission lines, generator and motor stators, etc.

The Corona Discharge **is a symptom** of a high electric field breaking down, indicating a fault. It is breaking down the insulation properties of the air and activating the nitrogen atoms in the air. This produces a runaway effect **producing UV radiation** in form of photons. The Corona Discharge **produces Nitric Acid** when in contact with humid air.

Invisible UVc Photon Radiation can be detected in the Ultra Violet band during full daylight. The 100% Solarblind Superb™ camera easily sees the corona discharge. The Solar UV noise is filtered out by an Ofil proprietary **narrowband Lindner band pass filter**. Due to the camera's extremely high sensitivity, even weak Corona is easily detected!

Renting a Corona Camera from us makes it easy to check for problem areas without spending money on a purchase. The Superb™ is easy to use with the highest Solarblind sensitivity in the field.

The following examples of Corona show how easy the Corona camera can find Corona, Arcing, and Partial Discharges.



The pictures **to the left** shows Corona on buss support insulators with a **high level of contamination**. To prevent a flashover event, cleaning or washing of insulators is needed! Part of the corona seen is due to **dry-band arcing**. The detection of corona and its **precise location** is very important information for the utility professionals and cleaning crews.

Electrical Corona produces a sound heard as crackling or hissing. A dish ultrasound detector can point to the general area of the Corona Discharge. However, it cannot show the exact Corona location. You need to have a **Bi-Spectral camera** with a visible high-resolution channel and the UVc detector channel overlaid onto the visible channel. This high precision camera sees the exact location of the corona discharge. Evaluation is easily made to establish if the discharge is dangerous or just a noisy nuisance on sharp-edged hardware! Find the Corona and Arcing problems before you have an unscheduled outage!

The pictures on **the right** show corona indications on a 1000 MW generator stator winding during a **high-pot test**. This made it possible to detect, locate and repair shorts between phases locally **in-situ** without a major rewind and with the rotor still in place. The Superb™ also detects partial discharge and arcing on stator tests.



Rent and Use our Corona Camera system for quick and easy detection of corona discharges! The cameras are available for weekly rental for use throughout the USA. Our rental prices make it easy on the budget. Long-term rental is available. Electrical Corona discharge is invisible to the naked eye.

Please contact us for price and availability.

Sincerely Yours,

EKLUND INFRARED/Eklund Innovation Inc.

Your UV Camera Specialists™

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PS. Please give us a call if you or your helicopter operators need an Airborne Gyro Stabilized EIR/SWE300 or 400 IR Camera System. They are equipped with HD video, Long Wave Infrared (LWIR) or Corona Cameras.