

Dear Electric Utility, Surveillance, and UVc Professional.



We want you to know that EKLUND INFRARED/Eklund Innovation Inc., makes DayCor® Superb™ Corona Detection Cameras available for you to use on a Rental basis.

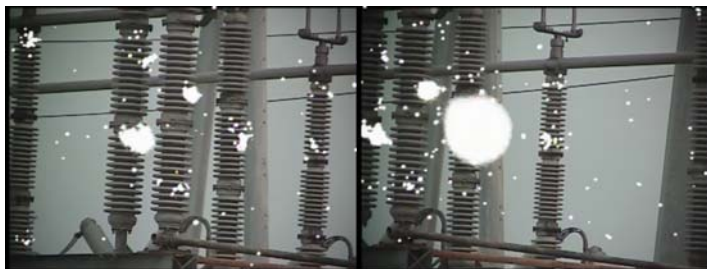
It is important to detect and correct Corona Discharges on electrical HV equipment, substations, transmission lines, generator and motor stators, etc.

The Corona Discharge is a symptom of a high-level electric field 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. It produces Nitric Acid when in contact with the humidity in the air.

This photon radiation can be detected in the UVc band during full daylight. The 100% Solarblind Superb™ camera can now easily see the corona discharge since it has extremely high sensitivity and cannot see the Solar UVc noise!

Renting a Corona Camera from us is an easy way 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 detected shows how easy the Corona camera can find Corona, Arcing, and Partial Discharge problems:



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 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 a crackling or hissing sound. It can be heard using an ultra sound detector with a dish pointer. This will not tell you exactly where the corona is. You need to have a camera with a visible high-resolution channel and the UVc detector channel overlaid onto the visible with high resolution and precision to see the exact location of the corona discharge and evaluate if it is a dangerous corona 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. We can provide Electrical Corona and Arcing inspection at any of your facilities. Electrical Corona discharge is invisible to the naked eye

Sincerely Yours,

EKLUND INFRARED/Eklund Innovation Inc.

Your UV Camera Specialists™

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PS. If you or your helicopter operators need an Explore 300 or 400 gyro stabilized IR Camera or HD video, Corona, please call us.