

Dear Electric Utility, Surveillance, UViGrapher and UVc Professional.

The DayCor® Superb™ 100% Bispectral Solarblind UVc Camera is available for rental from us at EKLUND INFRARED Inc. Use it for Detection of Invisible Electrical Corona, Arcing and Partial Discharge. (And other invisible UVc Sources)

Increase the Grid reliability by surveying substations and overhead lines for Corona using the EIR DayCor® Superb™ Corona Detection Camera.

When suspecting Corona at a substation or line, we suggest renting our Superb™ Corona camera for an investigation. Easily find Corona problems that need to be corrected. High contamination levels and moisture condensation can precipitate a flashover event!

Arcing from a punctured porcelain bell can easily be detected with the SweSystem 300 or 400 airborne gyro-stabilized Gimbal systems. The Swesystem gimbals use the DayCor® UVc Corona Camera. EIR sells the whole line of SweSystem Gimbal Cameras. Ask us for a quote. **Visit us at the HELI-Expo 2011 exhibit, Booth 1808.**

It is easy to use our handheld Superb™ Camera airborne! Check with us for our special rental pricing!



Punctured bell as seen from helicopter

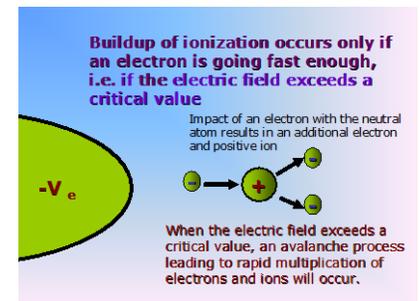
The best way to check high voltage equipment for corona in substations and on transmission lines is to use the DayCor® Superb™ Bispectral UVc Corona Detection Camera.

There is a major difference between IR Cameras and the Corona Camera. You cannot see corona with an infrared camera. The IR cameras are working in the IR band from 2 to 14 micron, normally in the 8 to 12 range for minimum solar reflections. The Corona camera is working in the UVc band which is on the other side of the electromagnetic spectrum than the IR vis-à-vis the visible. Corona is detected because it emits Ultraviolet radiation in the UV band

WE rent the DayCor® Superb™ Camera on a daily or weekly basis. Longer rental periods are available.

Why is a Solarblind Camera able to detect Corona in full daylight?

The electrical Corona is produced when a high electrical field is breaking down the insulating capability of the surrounding air. The Nitrogen in the air is bombarded with free electrons always available around us. When a high electrical field is present, an electron caught within the field is speeding up and hitting Nitrogen atoms in the air. When this happens, additional electrons are emitted that hit other Nitrogen atoms thus creating an avalanche effect. It could be described as a cloud of negative electrons and positive Ions. During the recombination process, radiation is emitted in form of photons in the UV wavelength band. This photon radiation is detected by the Solarblind Corona camera.



See us at HELI-Expo 2011 in Orlando, FL March 5 through 8! Check out our latest airborne Gimbal Cameras in the SweSystem Booth 1808.

It is easy to do your own Corona inspection when you rent a Corona Camera from us. The Superb™ is easy to work with, it is 100% Solarblind and it is the most sensitive Corona detection camera in the world.

Please contact us for your rental need. Our DayCor® Superb™ Rental camera package can be shipped to any of the US Continental states.

Sincerely Yours,

Jan K. Eklund, President

EKLUND INFRARED/Eklund Innovation Inc.

Your UV Camera Specialists™

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PS: we have attached the specifications on the DayCor® Superb™ UVc Corona Camera as a PDF document.