

Ofil DayCor® Superb™

The Corona Detection Camera with the Highest UV Sensitivity!



Use our Ofil DayCor® Superb™ Corona Detection Camera

- This important high-tech tool is available to the electric utility industry to help maintain and improve the electrical Grid!
- It finds, pinpoints and visualizes the exact location of electrical corona, arcing, and partial discharge.
- Assures there are no dangerous issues.
- Finding and correcting Corona events is protection against unplanned outages!
- Properly check Lines and Substations on a regular basis for damaging Corona activity.
- The DayCor® is an excellent detection system for location of various other UV sources in the 240-280 nm wavelength bands!
- **Latest firmware/software!**

The DayCor® Superb™ is a hand held portable Bi-spectral 100% Solar Blind Corona Camera that displays the UV electrical corona discharges overlaid onto a visible color video image in real-time. No time delay between the UV and visible image presentation on the screen.

It easily finds Corona on insulators and hardware for damage evaluation and is the ideal solution for cost effective and efficient predictive maintenance on overhead lines and substation components. Use the DayCor® also for motor and generator stator partial discharge detection.

The Superb™ Camera System has on-board digital video and picture recording and playback.

We have the EIR DayCor® Superb™ available for rental on a weekly (or longer) basis. Please contact us for pricing and availability. Our prices are very competitive. Call us...

Key Features:

- Exceptionally High sensitivity even at distance. **Better than 2.2×10^{-18} watt/cm²**
- Detection and display of corona emission as weak as 1pC at 10m.
- **100% Solarblind** for full daylight operation. **Ofil Proprietary UVc Filter!**
- The most sensitive Bi-Spectral UVc-Visible Corona Camera available.
- Built-in High speed **auto-focus** system!
- Easy one touch digital on-board color video recording onto removable SD card with included voice annotation including playback of video and still photos
- Snapshot still picture recording using touch key
- Easy to use with ergonomic design for low effort full day use.
- Integrated **high-brightness, Trans Reflective** adjustable color 5" LCD viewer designed **with safety in mind (no eye viewfinder needed)** and large enough for a team to view.
- UV events strength Counter with digital read-out.
- Touch key Gain setting from 0 to 250.
- Digital UV Zoom.

It is proper to check Lines and Substations for Corona on, at least, a yearly basis to assure there are no dangerous issues. If you suspect or hear corona discharges, use our Superb™ Camera to pinpoint the exact location and to evaluate the seriousness of the problem.

The DayCor® is an ideal NDT-Non Destructive Testing predictive maintenance tool for inspecting and monitoring overhead transmission & distribution lines and substations.

As an OFIL Representative since 2002, we have the whole line of DayCor® Cameras available for purchase. Please contact us for a quote with price and delivery!

Contact us for rental prices and availability at:

EKLUND INFRARED/Eklund Innovation Inc.,
2985 Gordy Parkway, Marietta, GA 30066. Voice 770-578-4435. Fax 770-578-9899
info@eklundir.com www.coronacamerarental.com or www.eklundir.com

Eklund CoronaCameraRental.com	
Ofil DayCor® Superb™ Camera Technical Specifications	
UV – Optical Properties (With Ofil Proprietary Solar-Blind UVc Filter)	
Highest UV Sensitivity; better than:	2.2x10 ⁻¹⁸ watt/cm ²
Minimum Discharge Detection	1 pC (Pico Coulomb) @ 10 meters (RWE certified: IEC 60270:2000)
Minimum RIV Detection	7.7dBµV (RIV)@1MHz (RWE certified: NEMA107-1987)
Field of View (H x V)	5° x 3.75°
Detector Lifespan	No degradation
Focus	Full continuous rapid Auto-Focus for UV and visible channels. Simultaneous manual focus adjustment for both channels
Focus Distance	3m/9ft to infinity. (0.5m with optional close-up lens)
Digital UV/Combined Zoom	2X and 4X
Visible – Optical Properties	
UV/Visible Overlay Accuracy	Better than 1 milliradian
Minimum Visible Light Sensitivity	0.1 Lux
Video Standard	Full Color NTSC
Rapid Visible Zoom	25 optical x 12 digital attained within 1 sec
Display	
Type	Integral Color Transflective Sunlight Readable LCD, adjustable
Brightness	450 cd/m ² reflective, adjustable
Resolution	640x480 pixels, color
Size	5 inch
Modes	Combined (UV & Visible), UV only, Visible only
External Video Output	NTSC via BNC jack
Controls & Operation	
Method	Keyboard
Functions Activation	Touch key, one touch button
Rapid Zoom	Continuous push button max attained within 1 second
System Status Indicator	LCD display shows low battery warning
Mounting Point	Standard 1/4" thread tripod mount
Environmental	
Storage and operations temp	-20°C to +55°C and -4°F up to +131°F
Encapsulation	IP54 Certified
Media Capture & Storage	
Video & Stills Capture	Internal
Video Format	AVI
Stills Format	BMP
Audio	External microphone
Playback	Video and still pictures
Digital Storage	Memory flash card
Physical Characteristics & Power Source	
Weight	7.3 lbs. (3.3 kg)
Dimensions	L9.1" x W7.1" x H5.9" (23x18x15 cm)
Nominal Power Source and Consumption	12V DC, 16 Watts
Power Source	FAA OK'd Rechargeable NiMH batteries for over 2.5 hour's continuous operation each. Universal AC/DC 12V Adapter