

Ofil DayCor® Superb™ (Type OD)

The Corona Detection Camera with the Highest UV Sensitivity!



Use our Ofil DayCor® Superb™ (type OD) Corona Detection Camera!

- This important high-tech tool is available to the Electric Utility Industry and others to help maintain and improve the Electrical Grid!
- It **finds, pinpoints and visualizes** the exact location of Electrical Corona, Arcing, Micro Arcing and Partial Discharge events.
- Assures there are no dangerous issues.
- It Helps You to Find and Correct **Corona Discharges** as protection against unplanned outages!
- Use this camera to Properly check Overhead 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!**
- **Spectral Range: 240-280 nm! We rent on a weekly basis!**

The DayCor® Superb™ (OD) 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 the visible image presentation on the Trans Reflective LCD screen. **CERTIFIED Highest Sensitivity so you don't miss weak discharges!**

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. **With its High Sensitivity, the DayCor® is also perfect for Detection of Generator and Motor Stator Partial Discharges!**

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 or email us...

Key Features:

- Exceptionally High sensitivity even at distance. **Better than 1.5×10^{-18} watt/cm².**
- Detection and display of Corona Emission as weak as 1pC at 10meter distance.
- **100% Solarblind** for full daylight operation. **Ofil Proprietary UVc Filter!**
- **CERTIFIED the most sensitive Bi-Spectral 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 made large enough for all team members to view.
- UVc Corona Events Strength Counter with digital read-out.
- Touch key Gain setting from 0 to 250.
- Digital UV Zoom, 2X- 4X.



It is most proper to check Overhead Lines for damaged insulators and hardware on a yearly or bi-yearly basis to assure there are no dangerous issues. More often **in contamination prone areas** with i.e. dust producing storms or salt spray! It is equally important to scan Substation insulators, hardware and transformer bushings for **damaging Corona!**

If you **suspect or hear audible corona discharges**, rent or buy our **Superb™ (OD) 100% Solar Blind Camera** to pinpoint the exact location of the Corona Discharges and to evaluate the seriousness of the problem. A contaminated insulator can be subject to a damaging flashover!

The DayCor® is an ideal NDT-Non Destructive Testing and 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! www.CoronaCameraRental.com	
Ofil DayCor® Superb™ (type OD) Camera Technical Specifications	
UV – Optical Properties (With Ofil Proprietary Solar-Blind UVc Filter)	
Highest UV Sensitivity; better than:	1.5x10 ⁻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	18 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" X20 thread tripod mount
Environmental	
Storage and operations temp	-20°C to +55°C , -4°F 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	Rechargeable Li-ion and NiMH batteries for over 2.5 hour's continuous operation each. Universal AC/DC 12V Adapter