

EKLUND INFRARED Inc. - CORONACAMERARENTAL.COM 2019

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 accurately finds pinpoints and visualizes** the exact location of Electrical Corona, Arcing, Micro Arcing and Partial Discharge events that may lead to damaged insulators, corona rings, audio noise, radio/TV interference and electrical & mechanical failures.
- 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 **Ultraviolet UV** sources in the **240-280 nm Spectral range!**

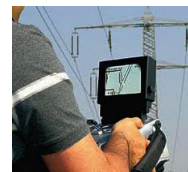
The DayCor® Superb™ (OD) is a **very easy to operate** hand held portable **Bi-spectral 100% Solar Blind Corona Camera** that displays the UV electrical corona discharges overlaid onto a visible color video image in real-time. No time delay between the UV and the visible image presentation on the Trans 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!**

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:

- **LCD that is ideal for outdoor inspections and for sharing images with team members**
- On-board storage via Compact-Flash Card
- **One touch digital on-board color video recording onto SD card with included voice annotation.**
- Playback on-board function for images and videos.
- Snapshot still picture recording using touch key
- **One-touch button functions operations; no need for menu browsing!**
- Built-in High Speed **auto-focus** system!
- **Made for inspection under any light and weather conditions**
- Integration mode for increased gain and reduced background noise
- 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.**
- Blob counting and numerical display for evaluation of the corona strength
- 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.



It is most proper to check Overhead Lines for damaged insulators and hardware on a regular 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!

As an OFIL Representative since 2002, we have the whole line of DayCor® Cameras available for purchase.

Please 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. Manual focus adjustment
Focus Distance	3m/9ft to infinity. (0.5m with optional close-up lens)
Digital UV/Combined Zoom	2X and 4X
Spectral Range	240-280 nm.
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 (See above)	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

RENT from EKLUND INFRARED/Eklund Innovation Inc. UV Camera Specialists™. 2985 Gordy Parkway, Marietta, GA 30066.
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 (RS232 communications protocol)