

# EKLUND INFRARED Inc. CORONA CAMERA RENTAL SYSTEM

## Ofil DayCor® Superb™ type DD

The Corona Detection Camera with the Highest UV Sensitivity!

Our actual rental camera photo!



We have the DayCor® Superb™ available for rental or purchase! 2023!

- The DayCor® Cameras accurately find pinpoints and visualizes the exact location of **Electrical Corona, Arcing, Micro Arcing and Partial Discharge events!**
- Electrical Corona and arcing can lead to damaged insulators, corona rings, electrical & mechanical failures.
- **This can lead to dropped lines, possible forest fire hazard in dry season** and also audio noise and radio/TV interference.
- **Use our rental Corona Camera to assure that there are no dangerous issues.**
- It will help you to find and correct **Corona Discharges** as a protection against unplanned outages!
- Use this camera to properly check Overhead Lines and Substations on a regular basis for damaging Corona activity.

The DayCor® Superb™ is very easy to operate! It 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!**

The DayCor® High efficiency Catadioptric Broadband lens system, with special UV glass optics together with the High Performance Lindner Solarblind UVc passband filter and the high sensitivity high resolution detection system, makes the DayCor® Superb™ the highest sensitivity Solarblind camera available. It has 5° x 3.75° optical FOV for the best image details on overhead lines and substations! 2&4X digital zoom.

The DayCor® is an excellent detection system for location of various other **Ultraviolet UV** sources in the 240-280 nm Spectral range!

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 Corona and 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. Please Call or email us.

### Some of Our Ofil DayCor® Superb™ High Lights!

- **100% Solarblind for full daylight operation. Ofil Proprietary UVc Filter!**
- **Exceptionally High sensitivity even at distance. Better than  $1.5 \times 10^{-18}$  watt/cm<sup>2</sup>**
- **Fast One-touch Key functions operation; no need for menu browsing!**
- **Built-in High Speed auto-focus system!**
- **CERTIFIED the most sensitive Bi-Spectral Solarblind Corona Camera available**
- **Integrated high-brightness, Trans Reflective adjustable color 5" LCD viewer** designed with safety in mind and made large enough for all team members to view. **(No Eyepiece Viewfinder needed)**
- **The Superb's unique design helps with continuous inspections and eliminates arm and eye strain.**
- **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
- **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  $1.5 \times 10^{-18}$  watt/cm<sup>2</sup> at standard full frame rate!**
- **Detecting and displaying Corona Emissions as weak as 1pC at 15meter distance.**
- Blob counting and numerical display for evaluation of the corona strength
- **More than 3.5 hours continuous operation per charge of the Li-ion battery.**



If you suspect or hear audible corona discharges, rent or buy our Superb™ 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 a cause for a damaging flashover! Our Superb™ rental cameras are easy to use with intuitive control and handling!

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. UV Camera Specialists™. [info@eklundir.com](mailto:info@eklundir.com) [www.coronacamerarental.com](http://www.coronacamerarental.com) or [www.eklundir.com](http://www.eklundir.com)

<b>EKLUND INFRARED Inc. CORONA CAMERA RENTAL SYSTEM</b>	
<b>Ofil DayCor® Superb™ type OD Camera Technical Specifications</b>	
<b>UV – Optical Properties (With Ofil Proprietary Solar-Blind UVc Filter) 2023</b>	
Highest UV Sensitivity; better than:	<b>1.5x10<sup>-18</sup> watt/cm<sup>2</sup> (Lower number is better)</b>
Minimum Discharge Detection <b>Line-of-sight Only</b>	1 pC (Pico Coulomb) @ 15 meters (RWE certified: IEC 60270:2000) Tested & Certified
Minimum RIV Detection: <b>Line-of-sight Only</b>	3.6dBµV (RIV)@1MHz @10m (RWE certified: NEMA107-1987)
Field of View (H x V)	<b>5° x 3.75°</b> Excellent for overhead and substations!
Detector Lifespan	No degradation
Focus	Full continuous fast Auto-Focus for UV and visible channels. Manual focus adjustment available
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 Sharp Band Pass Optical Filter
<b>Visible – Optical Properties</b>	
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
<b>Display</b>	
Type	Integral Color Transflective Sunlight Readable LCD, adjustable
Brightness	450 cd/m <sup>2</sup> reflective, adjustable
Resolution	640x480 pixels, color
Size	5 inch
Modes	Combined (UV & Visible), UV only, Visible only
External Video Output	NTSC via BNC connector
<b>Controls &amp; Operation</b>	
Method	Keyboard
Functions Activation	Touch keys, direct access to functions
Rapid Zoom (See above)	Continuous push button max attained within 1 second
System Status Indicator	LCD display shows low battery warning and more
Mounting Point	Standard 1/4" X20 thread tripod mount
Communication Interface	RS232
<b>Environmental</b>	
Storage and operations temp	-20°C to +55°C , -4°F to +131°F
Encapsulation	IP54, Certified
<b>Media Capture &amp; Storage</b>	
Video & Stills Capture	Internal
Video Format	AVI
Stills Format	BMP
Audio	External microphone (Included)
Playback	Video and still pictures
Digital Storage	Memory SD flash card
<b>Physical Characteristics &amp; Power Source</b>	
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, AC/DC Adapter & Li-ion Battery
Power Source	Rechargeable Li-ion batteries for <b>up to 3.5 hour's</b> continuous operation each. Universal AC/DC 12V Adapter

RENT from EKLUND INFRARED, UV Camera Specialists™. 2985 Gordy Parkway, Marietta, GA 30066. 770-578-4435 Email [info@EklundIR.com](mailto:info@EklundIR.com)