DayCor®
LUMINAR
Professional Corona Testing Camera

DAYCOR® **INSIDE**

An outstanding NDT - Non Destructive Testing equipment that pinpoints corona emitting sources in full daylight and denotes discharge severity. Luminar is designed to maximize the efficiency and productivity of predictive maintenance engineers by concentrating on functionality and relevant output. It is a powerful tool with DayCor® technology embedded and enhanced optical and display features. Luminar, the latest addition to Ofil's range of products, brings an innovative approach to corona detection.

>> Supreme sensitivity to UV signals

>> Outstanding corona & arcing detectivity

>> Precise location of corona emitting sources

>> Interchangeable fields of view

>> Effective powerful zoom

>> High resolution LCD

>> Videos and images capturing and playback

>> Built-in GPS

>> Voice narration and Text annotation

>> Light and ergonomic

>> Hot keys to functions

>> Integrated interface to Ofil Reporting Software

SUPREME SENSITIVITY TO UV SIGNALS
With detection of at least 1.3pC from a distance of 10 meters and 10.7dBµV (RIV) @ 1MHz Luminar makes the faintest corona perceivable and displayed clearly. UV events counter supported by a dedicated algorithm designate detected corona severity.

DAYCOR® TECHNOLOGY INSIDE
Luminar is a high fidelity bi-spectral solar blind camera based upon Ofil's DayCor® technology. Luminar, as such, allows operation in full daylight, capturing nearby and remote faint UV signals and displaying real corona images.

PRECISE LOCATION OF EMITTING SOURCES
Luminar displays in real time and accurately both corona and the emitting sources. Luminar portrays the real condition of the inspected object with embedded GPS data, ambient conditions, narrations and annotations.

INTERCHANGEABLE FIELDS OF VIEW
Luminar enables adjusting fields of views (FOV) to the desired angle and match inspection conditions. Wide FOV is handy in congested areas and while inspecting nearby installations. Narrow FOV is handy in open areas and when inspecting remote objects.

EFFECTIVE POWERFUL ZOOM
Powerful rapid zoom enables a close view of the emitting sources to reveal imperfections that create corona. A rapid response to zooming in/out saves operation time and makes Luminar's operation more intuitive and user friendly.

LIGHT AND ERGONOMIC
Luminar is light in weight and compact in size. Hot keys provide direct access to favorite frequently used functions. A easy to navigate setup menu controls the device.

BUILT-IN VIDEO & IMAGE RECORDING AND PLAYBACK
Recorded video clips and stills are internally stored on a removable flash memory card and displayed as a gallery with playback option.

INTEGRATED INTERFACE TO OFIL REPORTING SOFTWARE
Luminar is compatible with Ofil's reporting software. Stored images, videos and the auxiliary data of date, location, titles and ambient conditions are automatically exported into the database to be transformed into meaningful information and reports.

TECHNICAL SPECIFICATIONS

UV - OPTICAL PROPERTIES	
Minimum Discharge Detection	1.3 pC @ 10 meters (RWE certified, DIN EN 60270 VDE 0340:2001-08)
Minimum RIV Detection	10.7dBμV (RIV) @1MHz (RWE certified, DIN EN 60270 VDE 0340:2001-08)
Minimum UV Sensitivity	3×10^{-18} watt/cm^2
Fields of View H x V	5º x 3.75º and 10º x 7.5º
Detector Life Span	No degradation
Focus	Full manual and auto focus for both channels
Focus Distance	3m to infinity (0.5 m with close up lens)
Spectral Range	240-280nm
VISIBLE - OPTICAL PROPERTIES	
UV/Visible Overlay Accuracy	Better than 1 miliradian
Minimum Visible Light Sensitivity	0.1 Lux
Video Standard	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"
Modes	Combined (UV & Visible), UV only, visible only
External Display	Composite NTSC via PL jack
Corona Colors	White, Red, Green, Black, Yellow
Controls & Operation	
Method	Hot keys & on screen menu
Functions Activation	One touch button & menu selection
GPS	Built-in
Environmental	
Storage and Operation Temp	-20^{0}C up to +55^{0}C
Internal Data Storage	
Video Streaming	AVI (MPEG4 AVC)
Digital Storage	Memory flash card
Image Format	BMP
Playback	Video audio & pictures
PHYSICAL CHARACTERISTICS & POWER SOURCE	
Weight	2.2 Kg | 4.8 lb
Dimensions L x W x H	L29 x W13 x H12 cm | 11.4" x 5.1" x 4.7"
Nominal Power Consumption	5V DC, 15 Watts
Power Source	Rechargeable battery for over 3 hours, Universal AC/DC 5V Adapter
Interfaces	
	Temperature & Humidity meter, RS232
ACCESSORIES	
	Close-up Lenses; Database Reporting Software; Stock; Temp & Humidity Meter

* Specifications are subject to change without notice.

* Imagery used for illustration purposes only.