

DayCor®



HANDHELD CORONA CAMERA

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

SUPREME SENSITIVITY TO UV SIGNALS

With detection of at least 1.3pC from a distance of 10 meters and 10.7dB μ V (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.

- >> Videos & images capturing and playback
- >> Built-in GPS
- >> Voice narration and Text annotation
- >> Light and ergonomic
- >> Hot keys to functions
- >> Compatible with Corona Base Reporting Software

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.

COMPATIBLE WITH OFIL'S 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 used in the database as references to findings, and displayed in reports.

Distributed by: M.A. Selmon Company, Inc 4 Oxford Rd. Milford, CT 06460 203-377-3525

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	3x10 ⁻¹⁸ watt/cm ²	
Fields of View H x V	5° x 3.75° and 10° x 7.5°	
Detector Life Span	No degradation	
Focus	Full manual and auto focus for both channels	
Focus Range	3m 9.10ft - infinity (0.5m 4.9ft with close up lens)	
Spectral Range	240-280nm	
VISIBLE - OPTICAL PROPERTIES		
UV/Visible Overlay Accuracy	Deviation < 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		
Туре	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	S
External Display	Composite NTSC via PL jack	pecifi
Corona Colors	White, Red, Green, Black, Yellow	icatio
CONTROLS & OPERATION		s nc
Method	Hot keys & on screen menu	ire st
Functions Activation	One touch button & menu selection	ıbjec
GPS	Built-in	tto
Text Editor	Built-in	chan
Mounting Point	Standard 1/4" thread tripod mount	ge w
ENVIRONMENTAL		/itho
Storage and Operation Temp	-20ºC up to +55ºC -4ºF up to +131ºF	ut no
MEDIA CAPTURE & DATA STORAGE		otice
Video & Stills Capture	Internal	Ima
Video Format	AVI (MPEG4 AVC)	agen
Stills Format	BMP	y use
Audio	Internal speaker, External microphone, External headphones	ed fo
Playback	Video, audio & still pictures	rillu
Digital Storage	Memory flash card	strati
PHYSICAL CHARACTERISTICS & POWER SOUR	IE	on p
Weight	2.2 Kg 4.8 lb	urpc
Dimensions L x W x H	L29 x W13 x H12 cm 11.4" x 5.1" x 4.7"	ses (
Nominal Power Consumption	5V DC, 15 Watts	only
Power Source	Rechargeable battery for over 3 hours, Universal AC/DC 5V Adapter	Cop
INTERFACES		yyrig
	Temperature & Humidity meter, RS232, Mic	ht 2(
ACCESSORIES)13, (
	Close-up Lenses; Corona Base - Database Reporting Software; Stock; Temp & Humidity Meter plugin	Specifications are subject to change without notice Imagery used for illustration purposes only Copyright 2013, Ofil Ltd.



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