

# DayCor® UVollé

## UVollé-SX



### HANDHELD CORONA CAMERA



UVollé-SX a slender handheld model of corona cameras, dedicated to pinpoint sources of corona, display the inspected scenes with overlaid PD, and record findings. UVollé SX offers a cost-effective combination of performance and price. The embedded benchmarked proprietary DayCor® technology guarantees accuracy in noting corona occurrences. UVollé cameras excel in ergonomic design and in outdoors & indoors usability. Special care is given to operators' requirements for safety and comfort: low weight, physical dimensions, good hands grip, high clarity of the presented data, easy access to functions, more than 4 hours ongoing continuous battery run time operation without overheating.

**Used for** predictive maintenance by: electrical utilities, metal fabricators (FAB), heavy industries, mines, refineries, data centers, workshops, electrical contractors and owners of high and medium voltage assets

- >> Shoot, store & playback video and stills
- >> Visible & UV zoom
- >> RIV Sensitivity of 3.6 dβμV (RIV) @ 1MHz @ 10m
- >> Auto and manual focus
- >> More than 4 hours battery run time
- >> 5" WVGA sun readable backlight TFT LCD 1000 cd/m<sup>2</sup>

#### SLENDER AND LIGHT

Light in weight with a slim profile that fits a hand grip, UVollé can be operated with a single hand. Carried by a padded shoulder strap.

#### CORONA PINPOINTING

With overlapping accuracy of 1 miliradian the merged channels (UV & visible) pinpoint the emitting sources. UVollé's excellent detectors enable presenting the original occurrences of corona anchored to the emitters.

#### UV EVENTS COUNTER

The intensity of the detected corona is presented as a count of the encountered UV events per time unit. Handy for research, comparisons and reports.

#### USER FRIENDLY

User friendly interface and easy to operate: turn-on, aim, shoot and store still pictures. Camera preferred default settings can be personalized.

- >> Built-in powerful LED flashlight
- >> Corona event counting
- >> IP 54
- >> GPS, Temperature & Humidity interfaces
- >> Tested & Certified Sensitivity to UV
- >> Continuous operation without over heating

#### RECORDING STILLS & PLAYBACK

Pictures are recorded & stored on a removable flash card, and can be reviewed in the gallery.

#### DAYCOR® TECHNOLOGY INSIDE



DayCor® most sensitive technology is implemented providing full solar blindness and high sensitivity to UV [Registered Patent EP1 112459B1]. Frame integration is also optional as a way to enhance signals.

#### DELUXE REFLECTIVE 5" LCD

A wide 5" high resolution VGA 800 x 480 pixels, LCD, with 1000 cd/m<sup>2</sup> sun readable, adjustable power backlight, delivers sharp and vivid imaging of the inspected scenes.

#### INTEGRATED FLASHLIGHT

An integrated LED Flashlight with 2 levels of brightness enables inspecting interior parts of cabinets and darker rooms, without affecting the corona count.

# TECHNICAL SPECIFICATIONS

UV - OPTICAL PROPERTIES	
Minimum Discharge Detection	1 pC @ 10m (real test by RWE certified: DIN EN 60270 (VDE 0340):2001-08)
Minimum RIV Sensitivity	3.6 dB $\mu$ V @ 1MHz @ 10m (tested by RWE certified: NEMA 107-1987)
Minimum UV Sensitivity	2.6x10 <sup>-18</sup> watt/cm <sup>2</sup>
Spectral Range	240-280nm
Detector Life Span	No degradation
UV Frames Integration	On   Off
Focus type	Slaved to visible
VISIBLE - OPTICAL PROPERTIES	
Minimum Visible Light Sensitivity	0.1 Lux
Spectral Range	Visible range, Full color
Focus Range and Type	0.9m to infinity, manual & auto
Zoom	10x Optical, 12x Digital
IMAGING PERFORMANCE	
Field of View (HxV)	6.4° x 4.8°
Focus	Full manual and auto focus for UV and visible channels
UV Zoom	3 steps
DISPLAY	
Image Modes	Visible/UV/Combine
UV/Visible Overlay Accuracy	Deviation < 1 miliradian
Display	5" Color sun readable TFT LCD WVGA (800X480 pixels) 1000 cd/m <sup>2</sup>
Status Indicators	Battery, Memory, Gain, Counting, Date, Selected functions, Focus, Inspection mode , corona color, GPS (access.), Temp & Humidity(access.)
User Configuration Settings	Corona color (White, Red , Green, Yellow, Purple ) Time, Sleep Mode, LI, LCD Parameters
CONTROL & OPERATION	
Working Modes	Real time, standby, off
Continuous Operation	Unlimited. No overheating
Control Inputs	Keypad and hot keys
Mounting Point	Standard 1/4" x20 thread tripod mount
Flashlight	Built-in, LED 2 steps
MEDIA CAPTURE & STORAGE	
Stills Capture & Playback	Yes
Digital Storage	Removable SD card
Stills Format	BMP
OUTPUT INTERFACES	
Video Out (NTSC, Standard), GPS, Temp & Rel Humidity Meter	
POWER SUPPLY	
Battery type	Li-Ion
Battery Run Time	4 hours
External Supply	DC 9V
Nominal Power Consumption	6.5-10.5VDC, 10 Watts
COMMUNICATION	
Interface	RS232
PHYSICAL CHARACTERISTICS	
Size (LxWxH)	29x13.6x8.5 cm   11.4"x5.4"x3.3"
Weight	1.39Kg   3lb
ENVIRONMENT	
Operating & Storage Temp Range	-20°C up to +55°C   -4°F up to +131°F
Encapsulation	IP54
ACCESSORIES	
Close-up & Wide FOV Lenses; CoronaWise SW; Temp.& Rel Humidity Meter; GPS; Wired Remote control; Insepction Guide	

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