

# DayCor® UVollé

UVollé-SX | UVollé-VX



## HANDHELD CORONA CAMERA



UVollé-SX & UVollé-VX slender handheld models of corona cameras offer a cost effective combination of performance and price. UVollé cameras are used to detect, test, record and display corona partial discharges. The embedded benchmarked proprietary DayCor® technology guarantees accurate and reliable data provision of corona occurrences. UVollé cameras are designed ergonomically to match outdoors & indoors inspection conditions, and fit operators' requirements for safety and comfort: low weight, physical dimensions, good hands grip, high clarity of the presented data, easy access to functions, easy to reach buttons, large buttons. UVollé offers more than 7 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 video clips and 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 VIDEO, STILLS, AUDIO & PLAYBACK

Videos and pictures are recorded & stored on a removable flash card, and can be played back. Voice annotations can be recorded and used for documentation and reporting.

### 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.

**SX VX****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 dBµV @ 1MHz @ 10m (real test 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**

	✓	Video Capture & Playback	
✓	✓	Stills Capture & Playback	
✓	✓	Digital Storage	Removable SD card
	✓	Video Format	AVI
✓	✓	Stills Format	BMP
	✓	Audio	External microphone

**OUTPUT INTERFACES**

✓	✓	Video Out (NTSC, Standard), GPS, Temp & Rel Humidity Meter	
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**POWER SUPPLY**

✓	✓	Battery type	Li-Ion
✓	✓	Battery Run Time	4 hours
✓	✓	External Supply	DC 7V
✓	✓	Nominal Power Consumption	6.5-10.5VDC, 10 Watts

**COMMUNICATION**

✓	✓	Interface	RS232
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**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 &amp; Wide FOV Lenses; CoronaWise SW; Temp.&amp; Rel Humidity Meter; GPS; Wired Remote control; Insepction Guide