

# DayCor® UVollé

UVollé-SC | UVollé-VC



## COMPACT CORONA CAMERAS



A series of compact handheld corona cameras that offer the optimal combination of: performance, dimension, ease of operation and handiness of information. UVollé-SC stills camera & UVollé-VC video & stills camera are committed to finding corona related faults. Cameras are used during maintenance tasks, routine inspections and workshop testing, both indoors and outdoors. Due to the incorporated DayCor® technology, UVollé cameras enjoy high sensitivity to UV and solar blindness. UVollé users get pinpointed visual encompassing information

about corona & arcing and about electrical faults that affect safety and reliability. Special care was taken of ergonomic design with an excellent bright display, large comfortable backlit control buttons, direct access to functions, powerful zoom and built-in flash LED light. Operation is simple and user friendly letting operators collect true unbiased information.

- >> See, detect, record and store corona occurrences
- >> Visible & UV zoom
- >> Playback of recorded pictures & video\* clips
- >> Auto and manual focus
- >> More than 4 hours of battery operation
- >> Large deluxe reflective LCD

- >> Built-in powerful LED flashlight
- >> Corona events counting
- >> IP 54
- >> GPS, Temperature & Humidity interface
- >> Voice annotation
- >> Uninterrupted continuous operation

### LIGHT AND COMPACT

Simple single hand operation: turn-on, aim, shoot and store video clips and still pictures. 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.

### SIMPLE AND INTUITIVE

User friendly interface. Camera default settings can be personalized allowing preferred mode of operation.

### RECORDING VIDEO, STILLS, AUDIO & PLAYBACK

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

### DAYCOR® TECHNOLOGY INSIDE



DayCor® technology is implemented providing full solar blindness and high sensitivity to UV [Registered Patent EP1112459B1]. Frame integration is also optional as a way to enhance signals.

### DELUXE REFLECTIVE LCD

A wide 4.3" deluxe reflective LCD, with high backlight of 600 nits, delivers sharp and vivid imaging of the inspected scenes even in very bright light conditions.

### 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.

SC

VC

## 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 (real test by RWE certified: NEMA 107-1987)
√	√	Minimum UV Detection	2.6x10 <sup>-18</sup> watt/cm <sup>2</sup>
√	√	Spectral Range	240-280nm
√	√	Detector Life Span	No degradation
√	√	UV Frames Integration	On   Off

### VISIBLE - OPTICAL PROPERTIES

√	√	Minimum Visible Light Sensitivity	0.1 Lux
√	√	Spectral Range	Visible range, Full color
√	√	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
√	√	Focus Range	1.5m   4.9ft - infinity (0.5m   1.6ft with close up lens)
√	√	UV Zoom	3 steps

### DISPLAY

√	√	Image Modes	Visible/UV/Combine
√	√	UV/Visible Overlay Accuracy	Deviation < 1 miliradian
√	√	Display	Transflective sun proof color LCD 4.3" (800X480 pixels), 600 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" thread tripod mount
√	√	Flashlight	Built-in, Led, 2 steps

### MEDIA CAPTURE & STORAGE

	√	Video Capture	
√	√	Stills Capture	
√	√	Digital Storage	Removable SD card
	√	Video Format	AVI
√	√	Stills Format	BMP
	√	Audio	External microphone
√	√	Playback	Still pictures   Video and still pictures

### OUTPUT INTERFACE

√	√	Video Out (NTSC), GPS, TRH	Standard
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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)	29x12x8.5 cm   11.4"x4.7"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, Certified

### ACCESSORIES

√	√	Close-up Lens, Wide FOV Lens, CoronaWise Reporting SW, Temp.& Relative Humidity Meter, GPS; Inspection Guide	
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