



DayCor® UVollé

UVollé-SC | UVollé-VC



COMPACT CORONA CAMERAS



UVollé-SC & UVollé-VC

powerful handheld compact corona cameras offer an optimal combination of performance and affordable price. Being fully solar blind bi-spectral systems, these cameras allow detecting corona & arcing during daytime, but perform well in darker rooms and cabinets due to the built-in LED flashlight. Both models SC and VC fulfil scanning requirements of high and medium voltage electrical apparatuses such as: insulators, bushings, motors, generators, transformers, switchgears etc., used by mines,

petroleum industries, data centers heavy industry, electrical utilities, workshops and others. UVollé cameras are designed to maximize the efficiency of predictive maintenance providing fast & exact information about existing partial discharges, as indicators of electrical and mechanical faults, operating continuously without overheating. UVollé cameras have sensitivity certificates issued by an independent reputable laboratory based on real testing.

- >> Spot, shoot and store video and still pictures
- >> Visible & UV zoom
- >> Playback of pictures & video clips
- >> Auto and manual focus
- >> More than 4 hours of battery operation
- >> Large deluxe reflective LCD

- >> Built-in powerful led flashlight
- >> Corona event 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 dBμV @ 1MHz (real test by RWE certified: NEMA 107-1987)
√	√	Minimum UV Detection	3x10 ⁻¹⁸ watt/cm ²
√	√	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 milliradian
√	√	Display	Transflective sun proof color LCD 4.3" (800X480 pixels)
√	√	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
POWER SUPPLY			
√	√	Battery type	Li-Ion
√	√	Battery Run Time	7 hours
√	√	External Supply	DC 7V
√	√	Nominal Power Consumption	6.5-10.5VDC, 10 Watts
COMMUNICATION			
√	√	Interface	RS232
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, Corona Base Reporting SW, Temp.& Relative Humidity Meter, GPS; Inspection Guide	

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