OFIL
SYSTEMS >>*Makes UVisible*

DayCor®
UVollé
UVollé-SC | UVollé-VC

DAYCOR® INSIDE

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. 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. In particular, these models perform well in darker rooms and cabinets due to the built-in led flashlight. UVollé cameras provide in real time information of existing surface partial discharges and thereby assist in: mapping key insulating components that are susceptible to corona discharge derivatives; extending components lifetime; reduce reactive maintenance costs; and maintaining full management control over assets.

>> Spot, shoot and store video and still pictures	>> Built-in powerful led flashlight
>> Visible & UV zoom	>> Corona event counting
>> Playback of pictures & video clips	>> IP 54
>> Auto and manual focus	>> GPS, Temperature & Humidity interface
>> More than 4 hours of battery operation	>> Voice annotation
>> Large deluxe reflective LCD	>> Color corona

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 both UV and visible channels are merged to show the exact emitting sources and the discharges. Visible zoom and UV magnification boost detection instances.

UV EVENTS COUNTER

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

RECORDING VIDEO, STILLS, AUDIO & PLAYBACK

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

DAYCOR® TECHNOLOGY INSIDE

With DayCor® technology inside, full solar blindness during daylight and high sensitivity to UV are fully guaranteed [Registered Patent EP1112459B1].

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. support customization steps.

SIMPLE AND INTUITIVE

Simple intuitive operation is achieved through a graphical iconized menu. Camera default settings can be personalized allowing preferred mode of operation.

TECHNICAL SPECIFICATIONS

SC	VC		
		UV - OPTICAL PROPERTIES	
√	√	Minimum Discharge Detection	2.7 pC @ 10m (RWE certified: DIN EN 60270 (VDE 0340):2001-08)
√	√	Minimum RIV Sensitivity	22 dBµV @ 1MHz (RWE certified: NEMA 107-1987)
√	√	Minimum UV Detection	3×10^{-18} watt/cm^2
√	√	Spectral Range	240-280nm
√	√	Detector Life Span	No degradation
		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)	6.4^0 x 4.8^0
√	√	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" (800X430 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
√	√	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	More than 4 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	-20ºC up to +55ºC | -4ºF up to +131ºF
√	√	Encapsulation	IP54, Certified
		ACCESSORIES	
√	√	Close-up Lens, Wide FOV Lens, Corona Base Reporting Software, Temperature & Relative Humidity Meter, GPS	