DayCor®
UVollé
UVollé-SX | UVollé-VX

DAYCOR® INSIDE

HANDHELD CORONA CAMERA

UVollé-SX & UVollé-VX slender handheld models of corona cameras, dedicated to pinpoint sources of corona, display the inspected scenes with overlaid PD, and record findings. UVollé X series 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 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^2

>> Built-in powerful LED flashlight

>> Corona event counting

>> IP 54

>> GPS, Temperature & Humidity interfaces

>> Tested & Certified Sensitivity to UV

>> Continuous operation without over heating

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.

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 EP1112459B1]. 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^2 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

SX	VX		
		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 (tested by RWE certified: NEMA 107-1987)
√	√	Minimum UV Sensitivity	2.6×10^{-18} watt/cm^2
√	√	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)	6.4^0 x 4.8^0
√	√	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^2
√	√	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	
		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
		PHYSICAL CHARACTERISTICS	
√	√	Size (LxWxH)	29x13.6x8.5 cm | 11.4"x5.4"x3.3"
√	√	Weight	1.39Kg | 3lb
		ENVIRONMENT	
√	√	Operating & Storage Temp Range	-20ºC up to +55ºC | -4ºF up to +131ºF
√	√	Encapsulation	IP54
		ACCESSORIES	

Close-up & Wide FOV Lenses; CoronaWise SW; Temp.& Rel Humidity Meter; GPS; Wired Remote control; Insepction Guide