OFIL TAURUS POWERTRONICS P.VT. LTD.

DayCor® UVollé

SX/VX models | In/outdoors | Video & Stills Camera | Value for Price

High sensitivity to corona · High resolution TFT LCD · Recording & playback · Visible & UV zoom · Manual and auto focus · Light weight, slim · LED & Backlit keyboard · Extended battery run time · Temp. & humidity sensor · Indoors and outdoors camera

DayCor® UVollé

DayCor® UVollé-X compact handheld UV corona cameras for daytime inspections of electrical apparatuses in/outdoors, with special emphasis on ergonomic design and ease of operation. UVollé family incorporates Ofil's solar blind bi-spectral UV-Visible DayCor® technology having the highest sensitivity to corona signals as well as perfect signals positioning and a large Sun Readable WVGA LCD. UVollé cameras are used for remote non-destructive testing of high & medium voltage apparatuses, for seeing pinpointed information about corona partial discharge, and for recording videos with corona discharge. UVollé corona cameras reveal and display, in real time on-the fly, existing voltage related faults.

Ofil offers two variants UVollé- SX & UVollé- VX. These variants differ in their ability to take videos or stills. All other characteristics remain similar.

Fit for predictive maintenance in electrical utilities, metal fabricators (FAB), heavy industries, mines, refineries, data centers, workshops, electrical contractors and owners of high and medium voltage assets.

A Camera to Find Faults With

Discover unexpected faults and pinpoint their location. Find out in real time existing corona, known as the source for corrosive processes in insulation, metal fittings, concrete etc., radio interreferences, audio noise and ultraviolet radiation.

See to Foresee - Predictive Maintenance

Inspecting with UVollé supports predictive maintenance. UVollé scores corona severity and indicates it on the output. The recorded corona blobs and their count together with narration, ambient conditions and GPS that are added by a dedicated GTRH sensor are the results of inspections. Aggregates of corona occurrences constitute the history of inspections and the base for trending analysis.

Smart Camera

Multiple options are available onboard such as controlling sensitivity in order to focus on the corona source; changing the color of corona in order to make it stand out against the background; count corona events; select focus mode and zoom; or change the camera default settings. Optional accessories include lenses, remote controls, GTRH sensor and external monitors.

DayCor® Technology Inside

UVollé is a solar blind bi-spectral UV-Visible camera that incorporates Ofil's exclusive proprietary DayCor® technology [Registered Patent EP1112459B1]. UVollé provides reliable accurate data, showing the original occurrences of corona anchored to the emitters, operating continuously without overheating.

Practical and Technical

Inspectors expect to get more, fast, simple and clear. UVollé is built for inspectors, offering simple intuitive operation, user friendly interface, fast response, clear results of corona events. Turn on, aim, shoot and store. Neither calibrations nor any further adjustments are needed throughout its life.

Indoors and Outdoors

A sun readable spacious LCD with brightness control supports outdoor operation, while backlit keyboard and a powerful LED flashlight fit indoors shady conditions. Dynamic FOV with manual and auto focus match indoors inspections of nearby objects as well as outdoor inspection of remote objects. Long battery runtime support outdoor activity and AC/DC inlet is handy for indoors. Ongoing operation without overheating supports both indoors and outdoors, ensuring stable availability.

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SX	VX	TECHNICAL SPECIFICATIONS	
		UV - OPTICAL PROPERTIES	
√	√	Minimum Discharge Detection	1 pC @ 12m (tested by Innogy SE-Eurotest Germany: IEC 60270:2000)
√	√	Minimum RIV Sensitivity	3.6 dBµV @ 1MHz @ 10m (tested by RWE Eurotest GmbH : NEMA107-1987)
√	√	Minimum UV Sensitivity	$2x10^{-18}$ 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	0.06 Lux
√	√	Spectral Range	Visible range, Full color
√	√	Focus Range and Type	0.9m | 1.9ft to infinity, manual & auto (0.5m | 1.6ft w/ close-up lens)
√	√	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 hot keys & menu
√	√	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 9V
√	√	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	-20°C up to +55°C | -4°F up to +131°F
√	√	Encapsulation	IP54

TAURUS POWERTRONICS PVT. LTD.
AN ISO 9001 : 2015 COMPANY

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