

DayCor® UVollé

UVollé-S | UVollé-Vi



COMPACT CORONA CAMERAS

UVollé-S and UVollé-Vi are compact handheld daytime corona cameras that offer optimal combinations of affordable price and performances. Both cameras are fully solar blind UV-Visible bi-spectral imagers that detect and pinpoint corona & arcing partial discharges during daytime. UVollé S and Vi are adequate for scanning major electrical installations such as: motors, generators, transformers, switchgears etc., used in mines, petroleum industries, data centers heavy industry. The cameras are being used by electrical utilities' maintenance teams to detect early signs of degradation processes in transmission & distribution lines and substations. UVollé provides information in real time of the existing partial discharge processes and assists mapping the critical locations of assets that need attention.

- >> Spot, shoot and store video and still pictures
- >> Visible zoom
- >> Picture gallery browsing & video playback
- >> Auto and manual focus
- >> More than 3 hours battery operation

- >> UV zoom
- >> Corona event counting
- >> Corona color
- >> Gain control
- >> Voice annotation

LIGHT AND COMPACT

Designed for comfortable single handed operation. Carried by a padded shoulder strap. Mode of operation is simple: turn on, aim, shoot and store video clips and still pictures.

CORONA PINPOINTING

The detected corona and arcing are displayed accurately in their original settings. Visible zoom and UV magnification boost detection instances.

UV EVENTS COUNTER

UV events are counted and displayed to designate the relative strength of the detected corona. Used in reports to analyze findings, and in research.

VIDEO, IMAGE & VOICE RECORDING & PLAYBACK

Video and pictures can be recorded and stored on a removable flash memory card, and played to preview the captured media. Voice annotations are embedded in the media files and enable saving comments on the clip that are necessary for documentation.

FULL SOLAR BLIND

Based on Ofil's DayCor® technology UVollé allows

operation in regular daytime guaranteeing full solar blindness during daylight with clear imaging of any existing corona phenomena.

VISIBLE ZOOM

Visible zoom allows closer inspections of the corona emitting sources.

DAYCOR® TECHNOLOGY INSIDE

Ofil's proprietary exclusive lenses and optical filters provide accurate and reliable imaging of faint UV signals of corona, and display accurately the corona location.

UV ZOOM

Digital UV zoom magnifies corona events without affecting their original location and counting values.

EASY TO OPERATE

Direct access to frequently used functions simplifies camera's operation. A joystick and a swift dial-button control and modify predefined camera settings. An on screen smart menu provides a walk through guide to support customization steps.

TECHNICAL SPECIFICATIONS

S	Vi		
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, DIN EN 60270 (VDE 0340):2001-08)
√	√	Minimum UV Detection	3x10 ⁻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)	4.8° x 6.4°
√	√	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/Combined
√	√	UV/Visible Overlay Accuracy	Deviation < 1 miliradian
√	√	Display	Transflective Sunlight Readable LCD 3.5" (240X320)
√	√	Status Indicators	Battery, Memory, Gain, Counting, Date, Selected functions, Focus, Inspection mode
√	√	User Configuration Settings	Corona color (White, Yellow, Teal, Green, Purple, Red, Blue, Black) Time, Standby, Auto-off clock, LCD Parameters
CONTROL & OPERATION			
√	√	Working modes	Real time, standby, off
√	√	Control Inputs	Joystick, Buttons, Swift dial-button
√	√	Mounting Point	Standard 1/4" thread tripod mount
	√	Audio Interface	External microphone
MEDIA CAPTURE & STORAGE			
Ext	Int	Video Capture	External Internal
Int	Int	Stills Capture	Internal
√	√	Digital Storage	Memory flash card
	√	Video Format	AVI
√	√	Stills Format	BMP
	√	Playback	Video and still pictures
OUTPUT INTERFACE			
√	√	Video Out	Standard
POWER SUPPLY			
√	√	Battery type	Li-Ion
√	√	Battery Run Time	3 hours
√	√	External Supply	DC 7V
√	√	Nominal Power Consumption	10 Watts
COMMUNICATION			
√	√	Interface	RS232
PHYSICAL CHARACTERISTICS			
√	√	Size (LxWxH)	28x10x7 cm 11"x3.9"x2.8"
√	√	Weight	1.29Kg 2.8lb
OPTIONAL ACCESSORIES			
√	√		Close-up Lens, Corona Base - Database Reporting Software, Flash light
ENVIRONMENT			
√	√	Operating & Storage Temp Range	-20°C up to +55°C -4°F up to +131°F
√	√	Encapsulation	IP54, Certified

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