

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. 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
- >> 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
- >> 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.

| SC | VC | TECHNICAL SPECIFICATIONS | |
|-------------------------------------|----|--|---|
| 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 | 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) | 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 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 | -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 Software, Temperature & Relative Humidity Meter, GPS | |

Specifications are subject to changes without notice. Imagery used for illustration purposes only. Copyright 2014, Ofil Ltd.