



DayCor® UVollé

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

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 interferences, 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.

- » Hi sensitivity to corona
- » Hi 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® 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. No 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.

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 Innogy SE-Eurotest : NEMA107-1987) |
| ✓ | ✓ | Minimum UV Sensitivity | 2.6x10 ⁻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 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° x 4.8° |
| ✓ | ✓ | 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 |

ACCESSORIES

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

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