

DayCor® UVollé

UVollé-SX | UVollé-VX



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 4 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/m²

- >> 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 EP1 112459B1]. 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/m² 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.

SX VX

TECHNICAL SPECIFICATIONS

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 | 2.6x10 ⁻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 4.9ft 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 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 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; Insepction Guide