

DayCor®

SCALAR

THE WORLD SMALLEST CORONA UV CAMERA

DayCor® Scalar is a handheld UV corona camera for indoors inspections. Scalar is a non-destructive testing (NDT) instrument for gauging the condition of high & medium voltage electrical apparatuses and finding imperfections correlated with partial discharges. DayCor® Scalar presents in real time images of corona & arcing sparks and their discharging sources. The pinpointed information provided is instrumental for Factory Acceptance tests, for Quality Analysis of motors & generators, for testing manufactured components claimed to be corona free, and for routine predictive maintenance tasks. Furthermore, when safety is at stake, in locations prone to arc flash and sparks such as: switchgear cabinets, mines and dusty enclosed areas, DayCor® Scalar is an excellent cost effective inspection solution.



LIGHT AND COMPACT

DayCor® Scalar is the world smallest and lightest available corona camera that weighs 0.9 Kg (2.0lb). It has a slim handle that fits a hand grip and is operated using just the thumb. Its unique compact shape and lens location allow viewing through dedicated UV panes and into hard-to-reach compartments.

RECORDING & PLAYBACK

DayCor® Scalar records video clips and still pictures and stores them onto a removable flash card. It is possible to preview the stored media either on the camera's own LCD or on an external monitor via mini USB drive.

LARGE TRANSMISSIVE LCD

A wide 4.3" deluxe transmissive LCD, with high backlight of 600 nits, and resolution of 800X480 px delivers sharp and vivid imaging of the inspected scenes.

ERGONOMICS

DayCor® Scalar is designed to maximize ease of operation. On board command buttons control the most frequently used functions while an intuitive iconized stylish menu adds features that are needed for specific scenes.

DayCor® Scalar merges the concurrently captured images of both UV and visible channels with overlapping precision of 1 milliradian. This accuracy guarantees pinpointing the emitting sources of corona and arcing discharges. Visible zoom and UV magnification boost detection instances.

SMART OPERATION

DayCor® Scalar allows configuring multiple operation profiles to accommodate for different conditions. During inspection it is readily possible to switch between profiles and select the most appropriate one.

COST EFFECTIVENESS

The capability to see both the authentic scene and the emitted corona, pinpointed and in real time, cuts inspection duration, labor costs and assists in condition evaluation.

INTEGRATED FLASHLIGHT

An integrated LED flashlight with 2 levels of brightness enables inspecting interior parts of cabinets, motors and absolute dark spaces. Using the flashflight contributes to the safety of operators and allows working in variable indoors illumination conditions.

CORONA PINPOINTING

APPLICATIONS Motors & Generators testing, Distribution, Switchgear cabinets, Production QA, Electrical contractors, Laboratories, Mines, Training classes, Other













- >> VIDEO AND STILLS CAMERA
- >> PLAYBACK
- >> AUTO/MANUAL FOCUS
- >> EXTENDED BATTERY OPERATION
- >> LARGETRANSMISSIVE LCD
- >> BUILT-IN LED FLASHLIGHT
- >> VISIBLE & UV ZOOM
- >> CUSTOMIZED PROFILES
- >> PATENTED

TECHNICAL SPECIFICATIONS

Indoor use with no direct sunlight. Artificial light is accepted. Some fluorescent bulbs may interfere
15 pC @ 1 meter (RWE certified: IEC 60270:2000)
43.9 dBμV @ 1MHz @10m (RWE certified: NEMA107-1987)
310-320nm
No degradation
0 Lux
Visible range, Full color
visible runge, run edior
15° x 11°
Visible: Auto UV: Auto & Manual
0.5m (20") to infinity
Digital, 3 steps
Digital, 5 steps
Visible/UV/Combine
Better than 1 milliradian
Transmissive 4.3" color LCD (800 x 480 pixels)
600 cd/m² reflective, adjustable backlight
Focus mode, UV gain, Corona color, Low battery, SD memory status, Date & tim Flashlight
Gain, Focus mode, Corona color, Date & time, Sleep mode, LI, LCD parameters, L zoom
On/Standby/Off
Keypad and menu
Standard 1/4" X20 thread tripod mount
Built-in high power LED 3 levels
SD card
MPEG4
BMP
Video clips and still pictures
RS232, USB
Rechargeable Li-Ion
3 hours
AC/DC adapter: 9V
Internal with AC adapter
9V DC, 9 Watts
27 x12 x 9 cm (11 x 4.7 x 3.5")
0.9 Kg [2.0lb]
-20°C to +55°C (-4°F to +131°F)
battery, TRH, CoronaWise-Corona Management Software
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