

DayCor[®] SWIFT



CORONA MONITORING CAMERA



DayCor[®] Swift is a bi spectral UV-Visible camera with excellent scanning & corona detection capabilities, that fit monitoring of HV & MV electrical installations. Swift can be installed on a fixed mount or on a moving pan & tilt with 360° rotation or used on a UAS. Swift transmits during

daylight videos of the scenes and of occurrences of corona. Detection and transmission of detected corona events are accomplished in real time. As such, Swift transmits true imaging of the inspected scenes with valuable pinpointed information of electrical faults. The system can be customized to alert in real-time of changes in corona occurrences. Swift is fully remotely controlled wired and wirelessly.

FEATURES

- >> High sensitivity to UV signals of corona & arcing
- >> Rigid and enduring encapsulation
- >> Set for inspecting areas from 1.5m|4.9ft to infinity
- >> Absolute solar blind
- >> Video streaming
- >> UV photons counting
- >> Wired remotely controlled
- >> Fit for standard tripod & gimballed mounts
- >> Adaptable to customers' needs
- >> Uninterrupted continuous operation
- >> Audio & visible alarm of corona presence

REAL TIME INFORMATION

High sensitivity to UVc radiation enables detection and capture of corona discharge from distances as close as 1.5m (4.9 feet) and transfer of the detected discharge in real time without any delay. Operation is continuous without interruption or overheating

REMOTELY CONTROLLED

System is remotely controlled via RS232 communication protocol.

EASY INSTALLATION & LOW WEIGHT

DayCor[®] Swift can be mounted and dismantled easily. Installation is simple and standard.

STABILIZED PLATE

A rigid stabilizing plate keeps the system securely attached to its seat. .

HIGH QUALITY VIDEO & IMAGING

DayCor[®] Swift provides sharp clear pinpointed view of corona sources without missing corona events nor smearing artifacts even during movement.

VIDEO STREAMING

Streaming findings to a remote monitor provides an advantageous immediate view of the emitted corona and the emitting objects. The systems can either be used as a stand alone camera or in combination with other imaging devices such as IR and HD.

DAYCOR[®] TECHNOLOGY INSIDE



Implementing DayCor[®] technology Swift camera is fully solar blind and perceives UV signals in full daylight, while blocking noise and false signals [Registered Patent EP1112459B1]. Swift was tested for sensitivity to UV radiation, complying to industry standard IEC 60270:2000, and certified for its actual performance.

EXTREME CONDITIONS PERFORMANCE

Encapsulated in a rigid case & equipped with a high precision detector Swift is fit for extreme conditions.

TECHNICAL SPECIFICATIONS

ULTRA VIOLET (UV) - OPTICAL PROPERTIES	
Sunlight Rejection	Absolute – at all sunlight and all weather conditions, target can be inspected with the sun in the field of view
Minimum Discharge Detection	1pC @ 10 meters (RWE tested & certified: DIN EN 60270 (VDE 0340):2001-08)
Minimum RIV Detection	3.6dBµV (RIV) @1MHz @10m (RWE tested & certified: NEMA107-1987)
Minimum UV Sensitivity	2.6 x 10 ⁻¹⁸ watt/cm ²
Variable UV Gain	10 Steps, to enhance detectivity
Field of View H x V	6.4° x 4.8°
Detector Life Span	No degradation
Focus Range	1.5m 4.9ft – Infinity
Corona Color	Can be selected to accommodate for various scenes or match individual preferences
Spectral Range	240-280nm
UV Frames Integration	On Off
VISIBLE - OPTICAL CONFIGURATION	
Auto Focus Mode	Yes
UV/Visible Overlay Accuracy	Deviation < 1 miliradian
Minimum Visible Light Sensitivity	0.1Lux
Zoom	10 optical x 12 digital (120 optical x digital)
Quick Zoom	Yes
CONTROLS AND OPERATION	
Video output	NTSC standard
Operating Duration	Unlimited. No overheating
PHYSICAL CHARACTERISTIC & POWER SOURCE	
Storage and Operation Temp	-20°C up to +55°C -4°F up to +131°F
Weight	1.4kg 3.08lb
Dimensions L x W x H	L247 x W125 x H73 mm L9.72" x W4.93" x H2.87"
Nominal Power Consumption	6.5÷10 VDC, 14 Watts
Vibration and Shock	ETSI EN 300 019-2-5 V3.0.0 (2002-12), IEC 60068-2-64
INTERFACE	
Power Supply	Inbound
Video Streaming	Outbound
Control Functions	Inbound/Outbound
Communication	RS-232 (baud rate: 9.6 Kb/s, 19.2 Kb/s, 38.4 Kb/s, Stop bit: 1/2 selectable)
OPTIONAL ACCESSORY	
Wide FOV Lens; CoronaWise - Corona Management SW; Inspection Guide; Remote Control wired & wireless	

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