



CAMERA CORE

DayCor UV-EYELITE HD

OEM Multipurpose Block HD Corona Camera

DayCor® UV-Eyelite is a compact bi-spectral UVc-Visible solar blind block camera for OEM integrations. The UV-Eyelite serves as a corona and arcing detector and can be integrated on vehicles, trains, robots, ATVs etc., to perform inspections on the move during daylight.

- » Block camera
- » Compact dimensions
- » HD video
- » Highest sensitivity to UV
- » Bi-Spectral UV-Visible
- » For inspections on the move
- » Corona events counting
- » Ethernet communication
- » Wide FOV
- » Weather protected

Vehicles | Trains | ATVs | Stationary | Robots

EXPANDING HUMAN EYE VISUAL SPECTRUM

The UVc optical channel enables seeing only the invisible corona radiation, while the visible channel complements with the image of the location and objects. Both channels are merged letting inspectors get a pinpointed clear view of the corona and the emitting source.

THE BENEFITS TO INSPECTORS

DayCor® UV-Eyelite, not only expands the human eye visual spectrum, it also reveals the grid hidden secrets of faulty design, improper installations, mismatching components, contamination, broken conductors, insulation issues and other which deteriorate the grid reliability, accelerate aging and other, and alerts of safety conditions. UV-Eyelite highlights the weak spots that need attention and cuts investigation duration.

HIGH SPEED INSPECTION

UV-Eyelite transmits HD video on-the-fly, without image processing nor frames integration. The resulted videos are sharp, showing pinpointed information without smearing, even during high speed motion.

EASY INSTALLATION & CONTROL

UV-Eyelite fits into narrow compartments and can be easily mounted in brackets, pan and tilt systems or weather-shields. The module can be remotely controlled using a provided set of commands or Ofil's ConecTOP software.

DAYCOR® TECHNOLOGY INSIDE

UV-Eyelite incorporates Ofil's exclusive proprietary DayCor® technology [Registered Patent EP1112459B1]. UV-Eyelite features high sensitivity to UVc and provides a qualitative indication about the corona strength.

HD DATA TRANSFER | VIDEO RECORDING | STORING

The visual HD information is ready to be communicated to an external monitor and recorder stamped with date & time and corona strength.



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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 @ 15 m, Innogy SE - Eurotest, Test Regulation IEC 60270:2000 PD Measurement
Minimum UV Sensitivity	2.05×10^{-18} watt/cm ²
Fields of View H x V	8° x 6°
Focus	Full manual and auto focus for both UV & Visible channels
UV Frames Integration	On Off
UV Display Colors	UV color in the combined view 8 colors: red, orange, yellow, green, light blue, blue, purple, pink. In the UV Only view: white
Spectral Range	240-280nm

VISIBLE - OPTICAL CONFIGURATION

UV/Visible Overlay Accuracy	Deviation < 1 milliradian
Minimum Visible Light Sensitivity	0.25 Lux
Fields of View	8° x 6°
Focus Range	1m 3.28ft to infinity, automatic & manual

DATA FORMAT

Video Out Standard	HD 1080p 50fps
Stream Format	RTSP
Video Format	H.264

I/O CONTROLS AND OPERATION

Interface	1GB Ethernet bi-directional for commands & video streaming
UV & Visible Output	Combine UV & Visible

PHYSICAL CHARACTERISTICS & POWER SOURCE

Storage and Operation Temp	-20°C up to +55°C -4°F up to +131°F
Block Camera Weight	2.1 Kg 4.6 lbs
Camera with Enclosure Dimensions L x W x H	L255 mm x W155mm x H92 mm L10" x W6.1" x 3.6"
Nominal Power Supply & Consumption	12V DC, 12 Watts
Vibration and Shock	ETSI EN 300 019-2-5 V3.0.0 (2002-12), IEC 60068-2-64
IP Rating	IP65

ACCESSORIES

CoronaWise - Corona Management Software, ConeCTOP Desktop Application SW

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