



DayCor®

# ROMPACT EYE

## SBUV CAMERA CORE

DayCor® ROMpact-eye is a bi-spectral UV and Visible imaging module with excellent scanning & corona detection capabilities. ROMpact-eye is small and can fit into gimbal payloads of various sizes. The module has a built-in video & stills camera. Footage can be stored internally onto a SD card and streamed to a remote device. ROMpact-eye features high corona detection capabilities and high sensitivity to UV. ROMpact-eye qualifies for remote inspections on the move, or for stationary fixed-mount monitoring. ROMpact-eye is ideal for OEM and can be used in tandem with additional complementary sensors. The incorporated proprietary Ofil's DayCor® Technology guarantees reliable corona detection performance.

- » Robust
- » Light weight
- » Remotely controlled
- » Highest sensitivity to UV
- » Built-in recorder
- » Bi-Spectral UV-Visible
- » Fit for speedy inspections
- » Corona events counting
- » Powerful optical zoom

### HIGH SPEED INSPECTION

ROMpact-eye enjoys high sensitivity to UVc radiation and enables the detection and capture of distant corona discharge. Imaging is direct and does not involve processing nor frames integration. The resulted videos are sharp, showing pinpointed information without any smearing even during high speed motion.

### REMOTELY CONTROLLED

ROMpact-eye is remotely controlled through a set of commands communicated via RS232 protocol. Wireless control is also optional.

### EASY INSTALLATION & LOW WEIGHT

ROMpact-eye camera core can be mounted onto existing gimbals or on any standard 1/4" thread tripod mount. Installation is simple and standard and can be dismantled after use.

### VIDEO RECORDING & TRANSMISSION

Throughout inspections video is being transferred to a remote monitor. Selected findings can be recorded onto an onboard internal flashcard for further analysis and documentation. ROMpact-eye can be used either as a stand-alone UV-Visible camera or in combination with other optical sensors such as IR.

### DAYCOR® TECHNOLOGY INSIDE

Implementing DayCor® technology ROMpact-eye camera is a solar blind UV camera allowing operation in full daylight, blocking noise and false signals [Registered Patent EP112459B1].

# 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 meters (RWE certified: IEC 60270:2000) Tested & certified
Minimum RIV Detection	7.7dB $\mu$ V (RIV) @1MHz @10m (RWE Tested & certified: NEMA107-1987)
Minimum UV Sensitivity	1.9 x 10 <sup>-18</sup> watt/cm <sup>2</sup>
Variable UV Gain	10 Steps, to enhance detectivity
Field of View H x V	8° x 6°
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

## VISIBLE - OPTICAL CONFIGURATION

Auto Focus Mode	Yes
UV/Visible Overlay Accuracy	Deviation < 1 milliradian
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   PAL standards
Operation Time	Unlimited. No overheating

## PHYSICAL CHARACTERISTICS & POWER SOURCE

Storage and Operation Temp	-20°C up to +55°C   -4°F up to +131°F
Weight	1.3kg   2.8 lb
Dimensions L x W x H	L291 x W104 x H79.7 mm (L11.4" x W4.1" x H3.1")
Nominal Power Consumption	7.5÷30 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 Transmission	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)

## MEDIA CAPTURE & STORAGE

Video Format	AVI
Digital Storage	Removable SD card

## ACCESSORIES

CoronaWise - Corona Management Software; Inspection Guide
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