

DayCor® ROMPACT 300i



PORTABLE SBUV CAMERA



DayCor® ROMpact is a bi-spectral solar blind UV - Visible camera that is being used for scanning high voltage electrical installations. It is designed to be installed in payloads of various sizes and shapes or mounted on stabilizing platforms. With DayCor® Technology inside, ROMpact corresponds to the need for a high sensitive accountable daytime imager

that delivers in real time pinpointed information on corona and arcing emissions. Due to its minuscule dimensions, ROMpact is attractive to systems that incorporate multi spectral sensors, relieving size or weight concerns.

FEATURES

- >> High sensitivity to UV signals of corona & arcing
- >> High performance that matches flight conditions
- >> Rigid and enduring encapsulation
- >> Set for high speed inspection
- >> Absolute solar blind
- >> Video streaming
- >> UV photons counting
- >> Wired and wireless remote controllable
- >> Fit for most mounts and payloads configurations
- >> Adaptable to customers' needs

HIGH SPEED INSPECTION

High sensitivity to UVc radiation of 3×10^{-18} watt/cm² enables detection and capture of distant corona discharge as weak as 1.3 pC at a distance of 10m. This feature allows high speed and remote inspections without smearing the output image and without missing corona events.

REMOTELY CONTROLLED

System is controlled through a laptop keyboard or stick via RS232 communication protocol.

EASY INSTALLATION & LOW WEIGHT

As a block camera, ROMpact can match any gimbal size and shape and any mount configuration including drones of small sizes. Installation is simple and standard. Systems can be dismantled after use.

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

Based on Ofil's DayCor® technology ROMpact camera is a solar blind UV camera allowing operation in full daylight, blocking noise and false signals.

STABILIZED PLATE

A rigid stabilizing plate keeps the system securely attached to its seat letting the payload stabilization system gain full control.

EXTREME CONDITIONS PERFORMANCE

Encapsulated in a rigid case and equipped with a high precision detector and stabilizing plate, ROMpact camera can be adapted to extreme driving conditions while being mounted on vehicles' roofs.

ROMpact provides valuable data of the actual conditions of high voltage installations.

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 Partial Discharge Detection	1.3 pC @ 10 meters (RWE certified; DIN EN 60270 (VDE 0340):2001-08)
Minimum RIV Detection	10.7 dB μ V @ 1MHz (RWE certified; DIN EN 60270 (VDE 0340):2001-08)
Minimum UV Sensitivity	3 x 10 ⁻¹⁸ watt/cm ²
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
VISIBLE - OPTICAL CONFIGURATION	
Auto Focus Mode	Yes
UV/Visible Overlay Accuracy	Deviation < 1 miliradian
Minimum Visible Light Sensitivity	0.1Lux
Quick Zoom	Yes
CONTROLS AND OPERATION	
Video output	NTSC standard
PHYSICAL CHARACTERISTIC & POWER SOURCE	
Storage and Operation Temp	-20°C up to +55°C -4°F up to +131°F
Weight	1.9 kg 4.18lb
Dimensions L x W x H	L240 x W131 x H101 mm L9.4" x W5.1" x H3.9"
Nominal Power Consumption	5VDC, 6 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)

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