







DayCor® Ranger is a corona and arcing monitoring solution for driven inspections. Ranger benefits from the unique capabilities of DayCor® and of a platform designed for driving conditions. Ranger guarantees the highest ultraviolet (UV) detection sensitivity coupled with noise reduction algorithm; smooth and sharp video clips of the inspected area with merged UV and Visible signals; the most reliable scanning results; pinpointed display of corona emmiting sources' location. Ranger system is mounted on the vehicle roof and operated remotely from within the vehicle via a Display & Control unit. Corona counted events per second, audio commentation & GPS are integrated. DayCor® Ranger accomodates optional IR cameras providing thereby a multi-sensors concurrent inspections.

- >> Corona detection outstanding sensitivity
- >> Rapid zoom of the visible channel
- >> Auto focus of UV and Visible channels
- >> Remote Control
- **SUPREME SENSITIVITY TO UV SIGNALS**

With detection of at least 1pC from a distance of 10 meters and 7.7dBµV (RIV) @ 1MHz Ranger makes the faintest corona perceivable and displayed clearly. UV events counter supported by a dedicated algorithm designate detected corona severity.

COMFORT OF OPERATION

Ranger is operated from within the vehicle by means of a joystick and a keyboard with immediate direct operation and on-screen indications of selected controls. Switching between control functions is instantaneous and seamless.

RUGGED AND STABILIZED

Shock absorbers protect the imaging unit and support safety off roads driving. Composite design ensures low system weight and extended mission endurance.

DAYCOR® TECHNOLOGY INSIDE

Implementing DayCor® technology Ranger is a bi-spectral solar blind UV-Visible camera allowing operation in full daylight [Registered Patent EP1112459B1].

- >> High resolution 8.4" LCD
- >> Videos with audio & GPS recording and storage
- >> Accomodates multi sensors concurrent inspection

INSIDE

>> UV events counter

VIDEO RECORDING & STORING

Recorded high resolution video clips are NTSC/PAL compatible. GPS, date and time; audio commentations & UV counting are embedded.

EASY INSTALLATION

Ranger's installation is easy and fast. It is adjustable to most vehicle makes and sizes. Supplied with an installation kit and detailed instructions.

MULTI SENSORS CONCURRENT INSPECTION

Ranger is set to incorporate additional camera. A suggested IR camera or a customers' choice is mounted on the roof and controlled remotely from within the vehicle. Concurrent inspections with a combination of UV, IR, Visible etc, streamlines work and provides a comprehensive view of the inspected asset.

HIGH SPEED INSPECTION

DayCor® Ranger performs impeccably at speeds up to 100 km/hour inspecting energized systems of high and medium voltages.

TECHNICAL SPECIFICATIONS

UV-VISIBLE BI-SPECTRAL CAMERA PRO	OPERTIES .
Minimum Discharge Detection	1pC @ 10 meters (RWE certified: IEC 60270:2000)
Minimum RIV Detection	7.7dBμV (RIV) @1MHz (RWE certified: NEMA107-1987)
Minimum UV Sensitivity	2.2x10 ⁻¹⁸ watt/cm ²
Field of View H x V	5° x 3.75°
Focus Range	3m 9.8ft - infinity
UV/Visible Overlay Accuracy	Deviation < 1 miliradian
Rapid Visible Zoom	25 optical x 12 digital attained within 1 sec
UV Zoom	X2 and X4
Dimensions	L25 x W18 x H14.5 cm L9.8 x W7.0 x H5.7
PAN & TILT SYSTEM	
Stabilization	Shock absorbers
Interface Connector	According to MIL-C-26482 standard
Power Consumption	<15 Watts (nominal)
Power Input	9-14 V DC or 110/220 V AC
Preset Position	Multiple programmable position
Operating Angles	Pan: 340° Tilt: -90° to +30°
Speed [º/Sec]	Pan: 10º / Sec or 30º / Sec Tilt: 10º / Sec
Standard	IP67
Communication Port	RS232
PORTABLE CONTROL & DISPLAY UNIT	
Display	8.4" high resolution color LCD
Resolution	800 x 600 SVGA
Operation	Joystick, keyboard
Controlled Units	UV camera, Pan & Tilt, Recorder
Audio Interface	Internal microphone & speaker
Dimensions	L7.6 x W31.7 x H22.6 cm L3" x W12.5" x H8.9"
MEDIA DATA STORAGE	
Video & Image Recording	Built-in internal
Digital Storage	Removable SD card
Video Format	AVI, H.264 (MJPEG, MPEG-2, MPEG-4)
Image Format	JPEG
Full Playback	Video & audio, image
GPS	Embedded data
OPERATION	
Operation Temp	-20°C up to +55°C
Power Source	Car Battery
ACCESSORIES	

Corona-Base reporting software; Wide FOV lenses; IR camera (per customer's preferences)

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