

Базовый модуль DayCor RAIL EYE HD

Технические характеристики

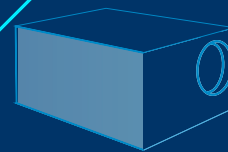
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CAMERA CORE



DayCor® RAILEYE HD

HD Corona Camera Core for Electrical Traction

RAILEYE^{HD} is a corona imager based on a UVc detector and a HD visible camera for inspecting electrical railways. RAILEYE^{HD} enables seeing and recording corona discharges in daylight. Corona, which is invisible to the human eye, can be seen only with bi-spectral UV-Visible corona cameras. RAILEYE^{HD} is a high definition, highly sensitive bi-spectral corona camera with Ofil's proprietary DayCor® technology inside, capable of pinpointing corona sources, visualizing them, recording and transmitting in real time to a remote receiver or a monitor. Due to its remarkable sensitivity & resilience RAILEYE^{HD} is an excellent choice for fast moving inspection of overhead high voltage grid lines and electrical traction, fits well in narrow compartments and can be mounted on fixed or moving mounts. RAILEYE^{HD} assists in the diagnosis of medium/high voltage systems by locating deficiencies that are related to electrical fields, or caused by bad design, structural & mechanical problems, contamination, eroded insulation, loss of hydrophobicity and other. Users of RAILEYE^{HD} benefit from early detection of electrical faults, get fast inspection results in the format of high resolution video clips, reliable data & pinpointed information in real time. Can be adjusted to customers' configuration.

- » HD camera
- » Compact dimensions
- » Built-in video recorder
- » Highest sensitivity to UV
- » Adjustable FOV
- » Bi-Spectral UV-Visible
- » Fit for speedy inspections
- » Corona events counting
- » Camera core for OEM
- » Communication protocols

HIGH SPEED INSPECTION

RAILEYE^{HD} 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

RAILEYE^{HD} fits into narrow compartments installed on a static or moving standard 1/4" thread tripod mount. Installation is simple and standard.

DAYCOR® TECHNOLOGY INSIDE

RAILEYE^{HD} is a solar blind bi-spectral UV-Visible camera that incorporates Ofil's exclusive proprietary DayCor® technology [Registered Patent EP1112459B1]. RAILEYE^{HD} provides reliable accurate data, showing the original occurrences of corona anchored to the emitters, operating continuously without overheating.

HD VIDEO RECORDING & STORING

RAILEYE^{HD} records High Definition videos and presents the resulted footage with the count of encountered corona events, date & time and GPS. Videos are stored internally onto a portable memory and transmitted to a remote monitor.

REMOTELY CONTROLLED

RAILEYE^{HD} is controlled through a set of communication commands: RS232, Ethernet or Wi-Fi.

ENHANCED INSPECTION FEATURES

RAILEYE^{HD} Field of View (FOV) can be adjusted per inspection scene. The FOV is selected from a wide to narrow combinations of optical and digital states. The selected FOV affects the dimension of the scanned area.

CAMERA CORE

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	1.9×10^{-18} watt/cm ²
Minimum RIV Detection	3.6dB μ V (RIV) @1MHz@10m
Fields of View H x V	H: 10° - 1.6° V: 5.6°-0.9° Continuous. UV & visible channels synchronized
Focus	Full manual and auto focus for both UV & Visible channels
UV Zoom	2x (Opt.), 6.25x (Dig.), Slaved to the visible channel, continuous zoom
UV Frames Integration	On Off
UV Display Colors	Poly chromatic: Red, Green, White, Black, Yellow
Spectral Range	240-280nm

VISIBLE - OPTICAL CONFIGURATION

UV/Visible Overlay Accuracy	Deviation < 1 miliradian
Minimum Visible Light Sensitivity	0.07Lux
Fields of View	H: 10° - 1.6° V: 5.6°-0.9° Continuous. UV & visible channels synchronized
Visible Zoom	25x optical & digital, continuous
Noise Suppression	Yes
Focus Range	0.6m 1.96ft to infinity, automatic & manual

DATA STORAGE

Video Out Standard	HD 720p 60fps
Video Format	MOV
Image Format	JPG
Storage	FAT-32, exFAT

I/O CONTROLS AND OPERATION

Video Interface	HDMI
Control Functions	1GB Ethernet, RS232, USB, Inbound/Outbound, Wi-Fi
UV & Visible Output Combination Modes	Combine (UV & Visible), UV only, visible only

PHYSICAL CHARACTERISTICS & POWER

SOURCE

Storage and Operation Temp	-20°C up to +55°C -4°F up to +131°F
Block Camera Weight	1650 gr 3.10lb
Camera Core Weight	1265 gr 2.12lb
Camera with Enclosure Dimensions L x W x H	L300 x W160 x H135 mm L11.8" x 6.3" x 5.3 "
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

ACCESSORIES

CoronaWise – Corona Management Software; Inspection Guide

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