OFIL SYSTEMS
Empowering Electrical Asset Health

OFIL Systems
UVolle Product Presentation

DayCor®
UVolle

UVolle VX / SX

Reliable, Compact, and User – Friendly

DayCor UVolle Solar Blind UV Camera is a handheld solution specifically designed to detect and pinpoint corona partial discharge - a major but often unseen hazard to electrical equipment. It offers an ideal blend of affordability and utility, with its light weight, easy use and precise fault pinpointing, it can tackle most corona partial discharge detection tasks with ease.

Applications

- Distribution
- Substations
- Rotating machines
- HV labs
- Mines and Heavy Industries

VX= Video & Stills
SX = Stills

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UVolle VX / SX

Product Key Features

- **High Sensitivity**
  Corona partial discharge sensitivity of 1pC @ 12m, as certified by Innogy lab.
- **Completely Solar Blind**
  Unaffected by solar radiation, ensuring reliable operation in daylight.
- **Spectral Range**
  UVC 240 – 280nm
- **Easy to Use**
  Remarkably intuitive and effortlessly easy to use
- **Compact and Light-weight**
  Designed to be comfortably used and held with just one hand.
- **Non-Destructive Testing**
  Allows for safe inspections from a distance of up to 50 meters.
- **DayCor Inside**
  Embedded with proprietary DayCor technology for superior performance

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UVolle VX / SX

Product Benefits

Proactive Detection: Detect corona discharges early, protect your power system's health.

Timely Identification and Rectification: Don't react, act! Identify potential equipment failures before they cause costly disruptions.

Prevent Outages: Save on unexpected expenses and maintain a smooth, efficient operation.

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Specifications

Category	UVolle
Usage	Daytime , outdoors & indoors
Recommended inspection distance *	Up to 50m
Key Features	
Sensitivity	1pC @ 12m
Field of View	6.4° x 4.8°
Zoom	Zoom 10opt X 12dig
Interfaces	Video Out (NTSC, Standard), GPS, Temp & Rel Humidity Meter
Screen	Sun Readable 5” TFT LCD 1000 cd/m2
Battery	Battery runtime > 4h
Environmental Protection	IP54
Weight & Size	1.39 Kg | 29x13.6x8.5cm
Recording	VX= Video & Stills SX = Stills

*The inspection distance can vary according to environmental conditions and corona severity

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On Screen Display

- Gain
- Visible zoom
- UV zoom
- Corona color
- Focus
- Playback
- Tools

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Sensitivity

The most sensitive UV camera in the world to date, corona partial discharge sensitivity of 1pC @ 12m, as certified by Innogy lab in Germany.

innogy SE - Eurotest

Test report

No.: 19_177-3 Version: 2/2

Customer	:	Ofil Ltd. 16 Einstein street, Science Park Nes Zionna 74140, Israel
Test object	:	Corona Detection System
Type	:	DayCor® cameras: - DayCor® UVolle (tested camera) - UVolle Family - Swift
Manufacturer	:	Ofil Ltd.
Date of test	:	04.06.2019
Applied test regulations	:	IEC 60270:2000, High-voltage test techniques - Partial discharge measurement
Test carried out	:	Sensitivity test with a DayCor® UVolle camera in parallel to a standard PD measurement at 12 m distance.
Test result	:	In a distance of 12 m with a DayCor® UVolle Family, UVolle[HD] Family, Swift it is possible to detect partial discharges with a PD level of 1.0 pC and 120 pulses per cycle (50 Hz).
Specialist testers	:	Edmund Hommernick, Stefan Sulk; Tobias Wittkemper

Dortmund, 01.07.2019

Dr.-Ing. Dirk Borneburg
Manager test laboratory

Stefan Sulk, M.Sc.
Test engineer

Report No. 19_177-3

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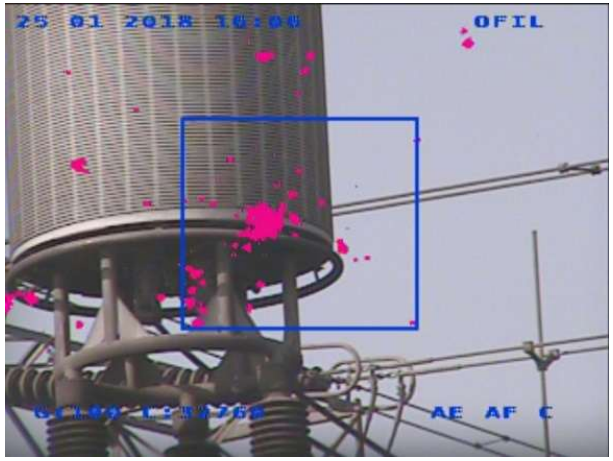
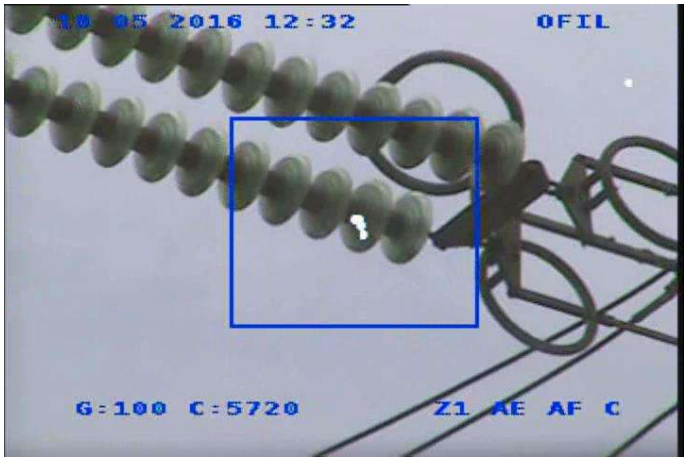
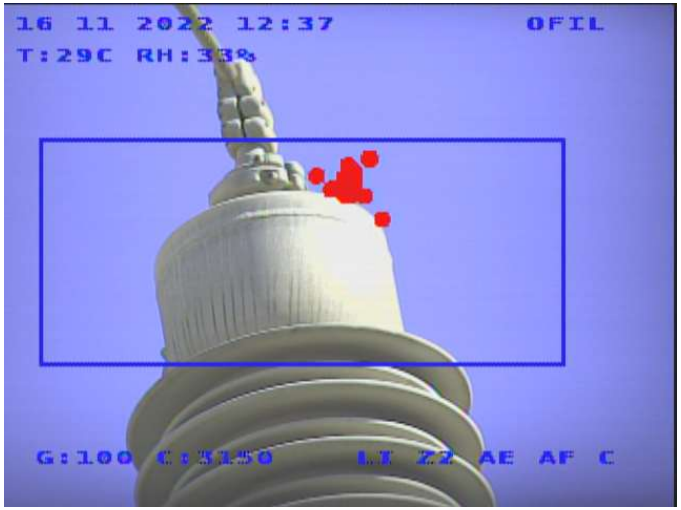
Images - Examples







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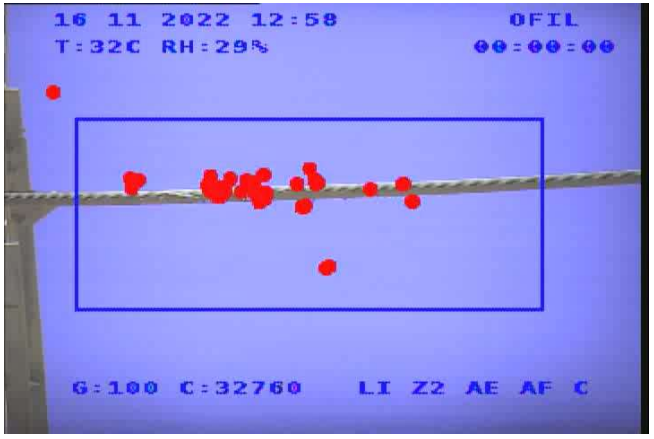
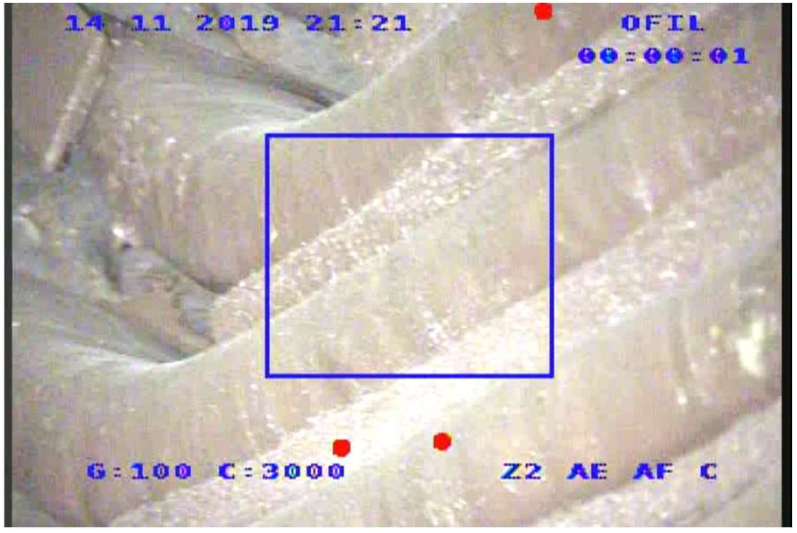
Videos - Examples





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Accessories

- Temperature and Humidity sensor
- GPS, Temperature and Humidity sensor

- Close-up Lenses
  0.5m-0.8m, 07.m-1.5m

- Wide FOV Lens
  12.8° x 9.6°

- External charger

FOV
12.8˚ x 9.6˚

Range
0.5-0.8m | 0.7-1.5m

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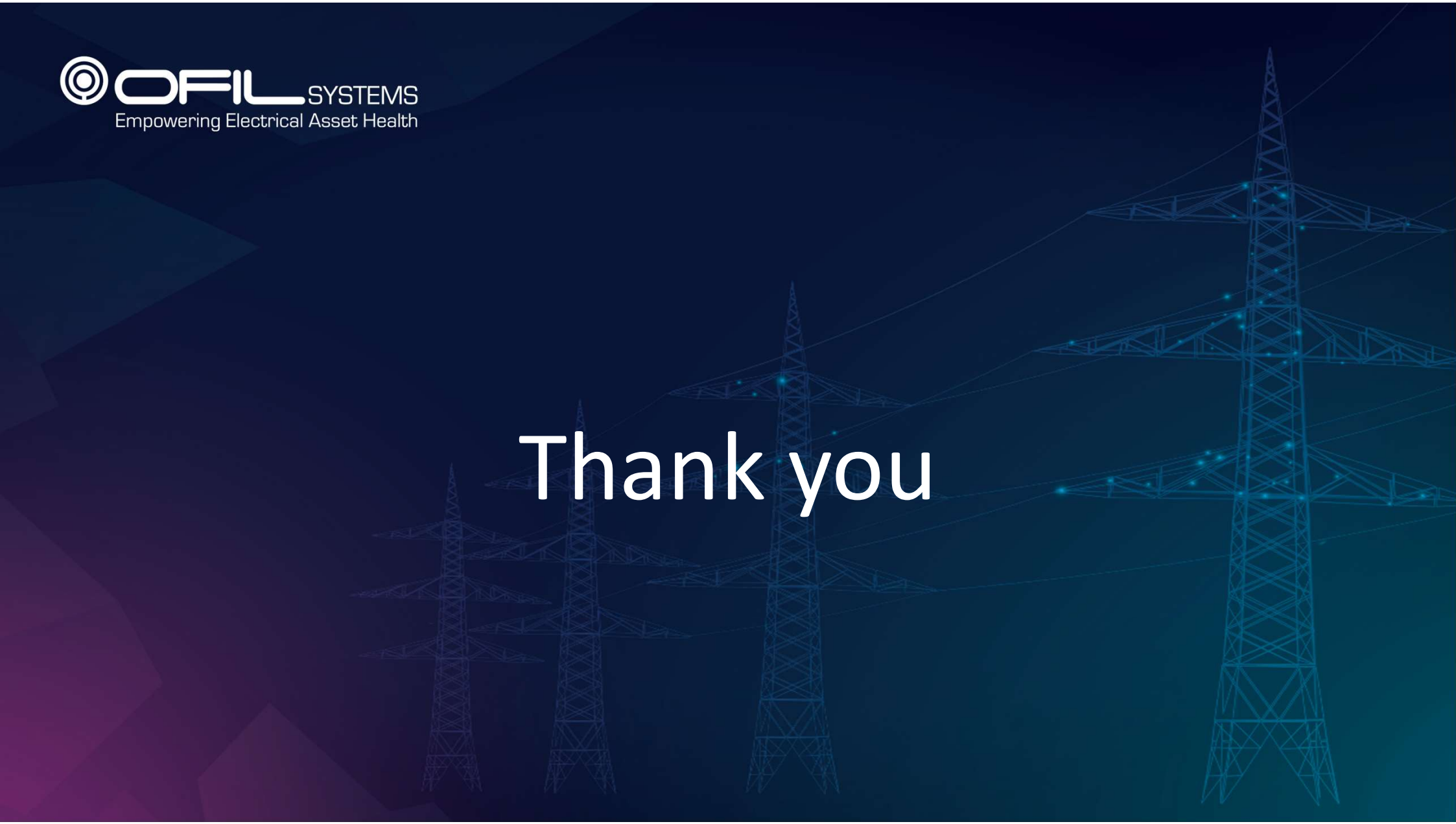

Thank you