Technical Specifications

UV - Optical Properties

Image Type	Monochrome video
Minimum UV Sensitivity	3×10^{-18} watt/cm^2
Minimum Discharge Detection	1.5pC @ 8 meters
Spectral range	UV 240 ∼ 280 nm
Field of View H x V	5.5° x 4.0°
Focus	Full manual and auto for UV and visible channels
Focus distance	2m∼∞
Detector Life Span	No degradation
Frequency	50Hz/60Hz

Visible - Optical Properties

Image Type	Color video
UV/Visible Overlay Accuracy	Better than 1 milliradian
Minimum visible light sensitivity	0.1 lux
Zoom factor	26 x optical and 12 x digital

Display

Type	5.7" VGA color transflective sunlight readable LCD, folding and touchable
Video Standard	PAL/NTSC switchable
Modes	Combined (UV & visible), UV only, Visible only
Corona Shades	White, Red, Blue

Processing & Communication

Image Processing	UV image enhancements
Video Streaming	H.264 standard
Alarms	LED
Menu	Button operation or touch operation
Location	GPS
User settings	Time/Date, Language, operating modes
Audio Modes	Microphone input for audio notes

Data Storage

Storage Media	4G SD card (2pcs)
Image Format	JPG
Video Storage	AVI compressed format
Storage Capacity	8000 images，or >4 hours videos
Data download	card reader

Power system

Power Consumption	10W
Battery Type	Rechargeable li-ion battery
Battery Run Time	2 hours
Charge	Online charging or charger
External supply	9-12V, 10VA
Power adapter	110-240VAC, 50-60HZ/12VDC 3.8A

Environmental

Operating Temperature	-10℃ ∼ 50℃
Storage Temperature	-25℃ ∼ 60℃
Humidity	95%，Non condensing

Physical Characteristics

Size	238mm ✕ 165mm ✕ 91mm (L x W x H)
Weight	2.5 kgs
Encapsulation	IP54

Interface

Power interface	Yes
SD card slot	Yes
Video output	BNC
Audio output	Microphone

Package

Standard	Corona Camera UVSee TD90，AC power adapter，2pcs Li-ion battery，charger，SD card，SD card reader，video cable，Car power adapter，CDROM (UVSee software and Manual), Warranty card, Strap, transport case

Corona Camera UVSee TD90

UVSee TD90 is an innovative NDT - Non Destructive Testing equipment, that detects, pinpoints and documents flash-arc corona and arcing partial discharge camera. Being with high sensitivity UVSee TD90 is a power tool to detect UV emission in full daylight with high signals from faraway and nearby sources. UVSee TD90 is an ideal predictive maintenance device for overhead transmission lines and high voltage substations.

UVSee TD90 is ULIRvision's second generation of Solar Blind UV imaging system with an emphasis on high performance functionality and easy operation, it is widely used in Transmission line inspection, Electrical utilities, HV research institutes, HV Electrical component inspection, HV panel inspection, service providers, laboratories and more.

Features

- High sensitivity to UV signals
- Auto focus of UV and visible channels
- Back ground noise reduction
- 5.7" folding and touchable color LCD
- LED UV events alarm
- Built-in GPS
- UV events counter
- Precise location of corona emitting sources
- Rapid optical zoom of the visible channel
- Videos & images capturing, recording and playback
- UVSee report software for documentation
- SD card upgrade the instrument firmware

Applications