TD90

Corona Camera

ULIRVISION UVSee TD90 is an innovative NDT - Non Destructive Testing equipment, which detects, pinpoints and documents flash-arc corona and arcing partial discharge camera. Being with high sensitivity, it is a power tool to detect UV emission in full daylight with high signals from faraway and nearby sources. **TD90** is an ideal predictive maintenance device for overhead transmission lines and high voltage substations. It is widely used in transmission line inspection, electrical utilities, HV research institutes, HV electrical component inspection, HV panel inspection, service providers, laboratories and so on.

Features

- High sensitivity to UV signals
- Precise location of corona emitting sources
- Auto focus of UV and visible channels
- Light Weight 2.5kg
- 5.7” foldable color LCD
- UVSee report software for documentation





Applications

- Transmission line inspection
- Electrical utilities inspection
- HV substations
- HV research institutes
- HV electrical component inspection

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Technical Specifications

Item	TD90
UV – Optical Properties	
UV sensitivity	≤2.2 x 10^{-18}watt/cm²
Minimum discharge detection	1pC @ 10 meters
Spectral range	240-280nm
FOV	5.5° x 4.0°
Focus	Auto/Manual
Focus range	2m~∞
Detector life span	No degradation
Visible - Opticalproperties	
Visible light sensitivity	0.1 Lux
Focus	Auto/Manual
Zoom	12x(Digital)、25x(Optical)
Image Performance	
Image Display	5.7” VGA color transflective sunlight readable LCD, folding 640×480
UV image enhancements	Digital Filtering denoising
Image frozen	Freeze the real time image
Frequency	50Hz
Modes	Combined (UV & visible), UV only, Visible only
Video standard	PAL/NTSC
Image Storage	
Image format	JPG
Video format	AVI
Media download	Via Card Reader, USB
Audio format	WAV
Playback	Video/Pictures/Audio
SD card	8G SD card, 64G SD card optional
Storage capacity	8000 images or 4 hr video
Data process	
UV/Visible Overlay Accuracy	Better than 1 milliradian
UV image integral time	Can set the integral time
Video streaming	H.264 standard
Functional characteristics	
Alarms	Audio or LED
Location	GPS
Software upgrade	Upgrade via SD card
Analysis Software	Generate report
Output Interface	
Power interface	Yes
Video output	CVBS
Audio output	Microphone
SD card slot	Yes
Tripod	1/4”-20
Power System	
External power	AC: 110V-240V / DC: 50-60Hz/9V 4A
Battery type	Rechargeable Li-Ion
Operation runtime	2h
Charge	Online charging or charger
Power consumption	≤10W
Power saving	Yes
Environmental Data	
Operation temp range	-10 ℃~+50℃
Storage temp range	-25 ℃~+60℃
Humidity	≤95% (non-condense)
Vibration	2G(IEC60068-2-6)
Shock	25G(IEC60068-2-29)
Encapsulation	IP54(IEC60529)
EMC	EN61000-6-4&EN61000-6-2/FCC47CFR Part15 class A/EN61000-4-8.L5
Physical Characteristics	

Size	238mm×165mm×91mm
Weight	≤2.5kg
Packing	
Standard	Corona Camera UVSee TD90，AC power adapter，2pcs Li-ion battery，charger，SD card，SD card reader，video cable，CDROM (UVSee software and Manual), Warranty card, Strap, transport case, USB Cable
Option	Tripod