TD100

Corona Camera

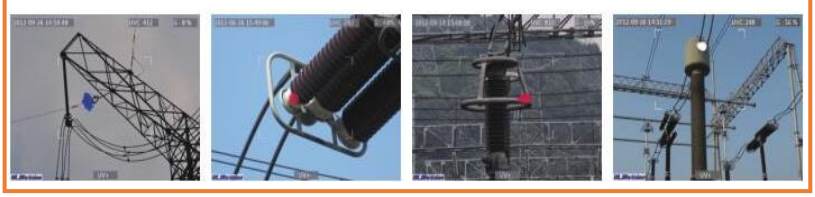
ULIRVISION TD100 is an innovative NDT - Non Destructive Testing equipment, which detects, pinpoints and documents flash-arc corona and arcing partial discharge camera. Being with high sensitivity, it is a power tool to detect UV emission in full daylight with high signals from faraway and nearby sources.

TD100 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 up to 2.2×10^{-18}watt / cm^2
- Noise interference is small, using solar-blind detector
- Accurate superposition and positioning of the whole area of ultraviolet and visible light
- Hand-held inspection, easy to complete the inspection
- Synchronous focusing of ultraviolet and visible light
- SD card online upgrade function
- High integration and low power consumption
- Professional report analysis software, more conducive to on-site situation analysis
- Small size, light weight, easy to operate





Applications

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

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Technical Specifications

Item	TD100
UV – Optical Properties	
Minimum UV sensitivity	2.2×10^{-18}watt/cm^2
Minimum discharge detection	1.0pC@15m
Radio voltage detector sensitivity	3.6 dBuV @ 1MHz
Spectral range	240-280nm
FOV	6.4° x 4.8°
Focus	Auto/Manual(Follow visible light)
Zoom	2X
Focus range	1.5m~∞
Detector life span	No degradation
Visible – Optical properties	
Minimum visible light sensitivity	0.1 Lux
Color	Auto switch between color and BW
Focus	Auto/Manual
Focus range	1m~∞
Zoom	12x(Digital)、10x(Optical)
Image Performance	
LCD screen	Visible LCD screen 5” touch screen under sunlight, 800×480
Image modes	Display only ultraviolet light image/display only visible light image/combination of visible light and ultraviolet light
UV/Visible overlay accuracy	≤1mrad
Status indicators	Battery power, gain, photons, date, focusing mode, stacking module, GPS
User configuration settings	Corona color (White, Red , Green, Yellow, Purple) , Time, Sleep Mode, Alarm threshold
Image Storage	
Image format	JPG
Video format	AVI
Media download	Via Card Reader, USB
Audio	Sync with video/Note in picture
Playback	Video/Pictures/Audio
SD card	Maximum 32G
Software upgrade	SD card online upgrade
Storage capacity	1000+ images or >1 hr video/1GB
Control& Operation	
Working modes	Real time, standby, off
Control inputs	Key, touch screen, USB (optional)
Output Interface	
Video output	HDMI
Micro USB	Micro interface, video direct transmission, communication
Bluetooth/WIFI	Yes
Tripod	1/4”-20
Power System	
External power	DC: 9V~12V
Battery type	Lithium battery (rechargeable)
Operation runtime	4h continuous (normal temperature)
Power consumption	10W
Mains adaptor	AC:110V~240V or DC: 50Hz~60Hz/9V 3.8A
Environmental Data	
Operation temp range	-10℃~+50℃
Storage temp range	-25 ℃~+60℃
Humidity	90% (non-condense)
Encapsulation	IP54
Physical Characteristics	
Size	290mm×136mm×87mm
Weight	1.39kg
Packing	
Standard	Corona camera, battery, charger, SD card, SD card reader, video cable, USB cable, adapter, USB flash drive,
Option	Tripod
Quality assurance	
EMC	CE, IEC1010-1