BC-20 UV Corona Detection Camera Dual F.O.V Lens: 13.3x10.6° (Wide-angle) & 5x3.75° (Telephoto)

The corona detection camera is a diagnostic tool to control critical components in an electrical network. Using a susceptible ultraviolet radiation camera such as BC-10 / 20 / 30 series, corona and ultraviolet radiation can be recorded to evaluate the state of a device. Installation faults or failures in high voltage equipment carry a very high risk, so preventive maintenance saves high repair costs. Corona discharges may occur due to structural defects or problems in the insulation.

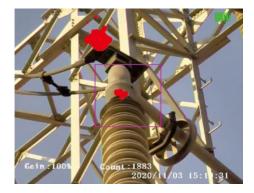
BC-20 UV Camera is a powerful dual-channel UV imaging equipment with a dual FOV Lens, 13.3 x 10.6° (Wide-angle) & 5 x 3.75° (Telephoto). The Lens are built-in for flexible applications. It can accurately locate corona and arc to display and record the photon number of discharge. Also, it can realize the prospective and pre-maintenance inspection of electrical equipment such as substations, transmission/distribution lines, generators and railway lines. BC-20 is an ergonomic design, professional and lightweight device; 1.80 Kg. High UV sensitivity performance but no sensitivity to sunlight during operation in daylight. Thanks to the high-performance UV detector and filter to give high sensitivity. It can detect weak UV signals: high precision image registration and fusion algorithm are employed to obtain accurate, sharp images and videos. It provides data recording and software for data transmitting & report making. It is helpful in mining, petroleum, heavy industry, fire prevention, insurance, detection services and other industries.



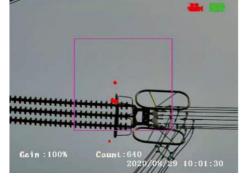
High Sensitivity UV Signal Detector	Accurate Photon Counting
Ergonomic Design	Expert Diagnostics

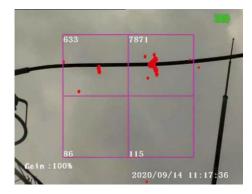


Screen Display



















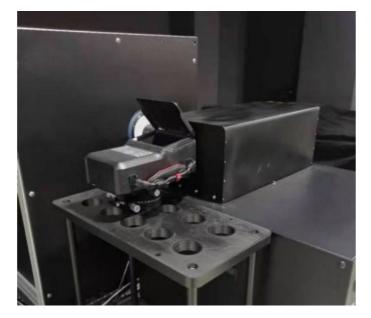
1. FEATURES

High Sensitivity Detector

A high-performance, no attenuation UV detector is very powerful for weak UV signals generated from discharge corona.

High-performance Filter

High precision 240-280nm cutoff wavelength UV filter, which has excellent out-of-band rejection performance and will not interfere with sunlight.

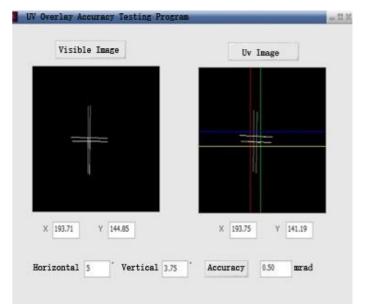


Accurate Photon Counting

Five types of photon-counting boxes for quantitative analysis. Single or multiple areas corona photons counting.

Accurate Positioning

High precision image fusion algorithm can accurately locate the corona position; the overlay accuracy is 0.5mrad.



Ergonomic Design	Super Configuration	
One press button, 64G TF card, 2 x 4.5 hours (with two batteries) continuous operation; compact size design only 1.8kg; portable and enable one-hand operation.	Standard configuration with 2 pcs batteries. Other Tripod, image report unit, temperature and humidity sensors, distance sensors, GPS etc., are optional to save costs and purchase flexibility.	
Expert Diagnostics		
	Considerate After-sales Service	



2. TECHNICAL SPECIFICATIONS

UV - OPTICAL PROPERTIES

- Field Of Vision (W x S)
- **Spectral Range**
- Minimum Discharge Sensitivity
- Minimum RIV Sensitivity
- Minimum UV Sensitivity
- **Focus Range**
- Focus

VISIBLE - OPTICAL PROPERTIES

- Minimum Visible Light Sensitivity Focus Range
- Focus

DISPLAY AND OUTPUT

- Modes
- UV / Visible Overlay Accuracy
- Туре
- Brightness
- Resolution
- **Status Information Display**

CONTROLS AND OPERATION

Status Modes Continuous Operation Controls Command

SAVE AND PLAYBACK

Video Still Images Data Save Video Format Stills Format Playback Function

CHARACTERISTICS

Detector Images Fusion Colours

POWER SOURCE

Battery Working Hours Adapter

ENVIRONMENTAL

Storage and Operation Temp VISIBLE - OPTICAL PROPERTIES Dimensions (L x W x H) Weight

	13.3º x 10.6º & 5º x 3.75º Switchable
	240nm ~ 280nm
	1Pc/10m
	3.6dBµV (RIV) @ 10m
	2 x 10 ⁻¹⁸ watt/cm ²
	1.5m ~ ∞
	Auto
5	
	0.1 Lux
	1.5m ~ ∞
	Auto
	Combine (UV+VIS), UV only, Visible only
	Better than one milliradian
	5-inch colour Transflective Sunlight readable LCD
	450 cd/ m ²
	736 x 576
	Battery, Gain, Counting Number, Date, Focus, Thresholds Alarm
	Real-Time, Sleep, Power Off
	Continuous Operation, No Cooling System
	One For One Keyboard Input
	Provided
	Provided
	32G TF Card
	MP4
	JPG
	Video & Still Images
	Life Without Attenuation
	Images Fusion Algorithm
	Multiple Colours Selectable
	Rechargeable Battery
	≥4.5h
	DC14.8V 15.4W

24.4cm x 13.5cm x 9.6cm 1.8kg



BC-20 Ver.1.0/MAY22

3. ACCESSORIES

- Battery x 2 pcs
- Charger
- Hand Strap
- Card with Adapter
- Microphone
- Video Cable
- AC/DC Adapter
- Carrying Case



Battery x 2 pcs



Charger



AC/DC Adapter



Card with Adapter



Microphone



Video Cable



Carrying Case



Hand Strap

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Due to our policy of continual product development, we reserve the right to amend the specifications of all mentioned products without notice.