

BC-30 DR (DRONE)

Multi-Spectral (UV+IR+VIS) Camera

BC-30 DR (DRONE) is a three-in-one imager integrating UV, IR and VIS. It can be used for day and night inspection. Corona discharge and temperature fields that are not visible to the human eyes are formed into various fusion images for precise localization and quantitative diagnostic analysis of defects. BC-30 DR can be used for pre-maintenance inspection of power equipment such as transmission, distribution and railroad lines. It can also help petrochemical, forest fire-prevention, heavy industry etc. The instrument adopts high sensitivity, high pixel UV, IR, and VIS sensors. Through high precision image registration and image fusion algorithm to get accurate and clear images. Self-developed PTZ adapted to drone communication, highly integrated design, easier to control and fly.



1. FEATURES

High Sensitivity UV Sensor

High-performance ultraviolet(UV) detector for day and night inspections. No interference from the sunlight.

Fusion Switching

It can fuses UV, IR, VIS image and output HD picture/ video, multiple imaging modes can be switched.

Accurate IR Measurement

Use 640×480 pixel IR detector, high accuracy, wide range and high temperature point tracking.

Integrated Design

UV, IR, VIS, laser and PTZ integrated construction displayed in the control App, easy to operate.

Accurate Positioning

High-precision image fusion algorithm to accurately locate the corona, arc and partial discharge.

Photon Counting

UV photon counting to evaluate the intensity of discharge, multi-frame counting is available.

High-Definition VIS

28x optical zoom, 12x digital zoom allows clear identification of defects.

After-sales Service

Two-year warranty, timely response to customers' needs, guaranteed top quality service.

2. TECHNICAL SPECIFICATIONS

UV CHANNEL PROPERTIES

Wavelength Range	240nm ~ 280nm
Discharge Sensitivity	1Pc/10m
RIV Sensitivity	3.6dB μ V (RIV) @ 10m
UV Sensitivity	2 x 10 ⁻¹⁸ watt/cm ²
FOV	12.6° x 7.2° (Wide-Angle)

IR CHANNEL PROPERTIES

Pixel	640 x 480
Temp Range	-20°C ~ +400°C
Temp Accuracy	±2°C / ±2% of reading
Focus	Auto / Manual
FOV	24.5° x 18.5°
Temp Measurement	Support point, line, frame measurement
Image Analysis	Support

VIS CHANNEL PROPERTIES

Focus Mode & Distance	Auto, 1.5m~ ∞
Minimum VIS Sensitivity	0.1 Lux
Zoom	28x optical zoom, 12x digital zoom

DISPLAY AND OUTPUT

Display Mode	UV, IR, VIS, Fusion
Overlay Accuracy	≤ 1mrad
Display	Applicable to the drone control panel
Image Format	JPG & RAW
Video Format	AVI
Image Resolution	1280 x 720
Status Information Display	Gain, Counting, Date, Function, Focus Mode, Temperature
Corona Color	7 kinds of colours available

DRONE (OPTIONS)

Size	810×670×430 mm(unfold), 430×420×430 mm(fold)
Weight	3.6kg, 6.3kg(with battery)
Maximum Load	2.7kg
Maximum Flight Altitude	5000m
Maximum Wind Speed	15m/s
Maximum Endurance	55min
IP Rating	IP45

PHYSICAL PARAMETERS

Operating Temp	-20°C ~ +55°C
Operating Humidity	≤ 90%RH
Size(Length, width, height)	141mm x 144mm x 127mm
Weight	1.5kg

3. ACCESSORIES

- PTZ
- PTZ Adapter
- Card with Adapter
- SDK
- Carrying Case
- M300 Drone (Options)



PTZ



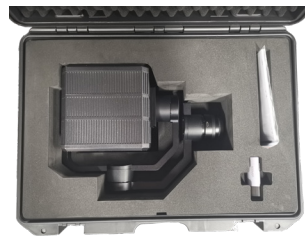
PTZ Adapter



Card with Adapter



SDK



Carrying Case



Drone (Options)

BST CALTEK INDUSTRIAL LTD.

HONG KONG OFFICE

Room 209, 4 Floor, 45-51 Tai Lin Pai Road, Kwai Chung, N.T., Hong Kong

Tel: (852) 2424-4694

Email: sales@bstcaltek.com

www.bstcaltek.com