

BC-30 DR-C

Compact Drone Carrier Multi-Spectral Camera on Corona Detection

The BST **BC-30 DR**, the UV Corona detection drone system, is helpful and unique for pre-maintenance power equipment inspection, such as transmission, distribution and railway lines. It can also help petrochemicals, forest fire prevention, heavy industry, etc. The instrument is broadly adapted to the power system environment.

A refinement of the success of the BC-30 DR, we proudly present the new BC-30 DR Compact.

BC-30 DR-C, a compact version of the epochal-making for 4-in-1 Multi-Spectral (UV+IR+VIS+ Laser) Corona detection camera. It retains the high sensitivity, high pixel UV, IR, VIS sensors and Laser to measure distance. Developed based on the PSDK platform, get accurate and clear images through high-precision image registration and image fusion algorithms. The high-precision special pan-tilt quickly docks M300/M350RTK and other mainstream drones. Images were fused by high-precision image registration to obtain the exact location of corona discharge, temperature anomaly, missing damage and other defects. Most importantly, it is overall reduced size: 550g (without pan-tilt) / 900g (with pan-tilt); hence, the weight enhances the flexibility of operation and easy handling.

It could be the most compact drone corona detection camera. We believe the BC-30 DR-C is a passionate product, and we have expended much of our energy to create such a fine product.



Features:

- Standard Pan-Tilt and excellent shock-resistance
- High integration of UV, IR, VIS & Laser
- Individual Operation Quality and Efficiency
- 4-in-1 Multi-spectral joint diagnosis
- Secured equipment and good after-sale service



Standard
Pan-Tilt



High-
integration



Individual
Operation



Joint
Diagnosis



Quality
Service

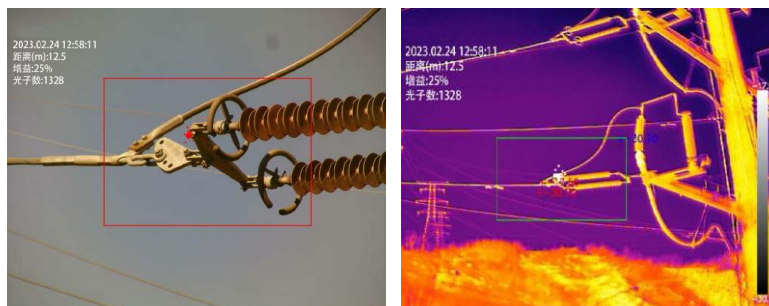
Precise Pan-Tilt

Precision aerial Pan-Tilt, excellent shock resistance, stability and adaptability, can quickly loaded and unloaded within 2 minutes on site.



Joint Diagnosis

Multi-spectral imaging technology combined improves diagnostic accuracy and detection efficiency, reducing the false alarm and miss alarm rate.



Highly Integrated

High sensitivity UV movement, IR movement, high-definition VIS camera and laser ranger are highly integrated, one machine multi-capability.



Quality Service

Mavic 3 drone is the option for end users to follow the application scene in the whole process to realize a worry-free detection process.



2. TECHNICAL SPECIFICATIONS

UV CHANNEL PROPERTIES

Wavelength Range	240nm ~ 280nm
Discharge Sensitivity	1Pc/10m
RIV Sensitivity	3.6dBμV (RIV) @ 1 MHz@10m
UV Sensitivity	3×10^{-18} watt/cm ²
Field of View	20° x 11°
Gain Adjustment	0 ~ 100%
Focus distance	2-1000m

IR CHANNEL PROPERTIES

Spectral Range	8 ~ 14μm
Temp Range	-20°C ~ +500°C
Pixel Size	12μm
Field of View	46° x 37°
Focus Method	Fixed Focus
Electronic Zoom	1-4 times

VIS CHANNEL PROPERTIES

Field of View	6° x 65°
Minimum VIS Sensitivity	0.1 Lux
Focal Length	3 ~ 33 mm
Digital Zoom	10x digital zoom

DISPLAY AND OUTPUT

Display Mode	UV, IR, VIS, UV+VIS, UV+IR, UV+IR+VIS
Overlay Accuracy	≤ 1mrad
Display	Drone flight control
Image Resolution	1280 x 720
Threshold Alarm	Support photon number, temperature threshold setting
Image Format	JPG & RAW
Video Format	MP4 / H.264
Corona Colour	Red, White, Blue, Yellow, Cyan, Green, Magenta
Status Information Display	Mode, Gain, Counting, Colour, Temperature, Alarm
Language	English

PHYSICAL PARAMETERS

Size(Length, Width, Height)	112 x 85 x 60 mm
Weight	550g (without PTZ); 900g (with PTZ)
IP Classification	IP54
Accessories	PTZ+ Mainframe / 64G card / U Disk / Manual / Carrying case

3. ACCESSORIES

- PTZ
- PTZ Adapter
- Card with Adapter
- U Disk (Software)
- Carrying Case
- Compatible with DJI drone M300/M350 RTK (Not included)



PTZ



PTZ Adapter



Card with Adapter



U Disk



Carrying Case



Compatible with
M300/M350 RTK
(Not included)

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