



SWESYSTEM

300 Triple

CORONA DETECTION COMBINED WITH RADIOMETRIC THERMAL CAPABILITIES

- Bi-Spectral UV
- High Definition IR 1024x768 pixels
- Full HD TV 1080p

Three unique sensors combined into a compact Camera platform



300 Triple



Responsive and accurate control

The perfect choice
For Power Line
Inspection,
where Corona
detection and
Thermal
measurements are
key features.

Gyro Stabilized Gimbal

A fully digital 4-axis active gyro stabilization system compensate for the aircraft movements and vibrations.

Reliability and Lightweight

Designed and manufactured using an aluminum structure and composite covers.

Corona Detection

Using solar blind Bi-spectral UV

Superior Performance using Long Wave Thermal IR

High precision measurement accuracy, superb image quality and long wave solar reflection immunity provides outstanding performance.

Thermal Radiometric Output

Real time temperature measurement in full HD resolution.

GPS tagging

All images are tagged with GPS data for Geo-reference.

Environmental Design

According to RTCA DO 160





300 Triple Technical

Gimbal System

Type: Four Axis Active Gyro Stabilized Gimbal
Stabilization: $\approx 15 \mu\text{Rad}$
Coverage Az: 360° continuous
Coverage El: $+20^\circ$ to -120°
Dimension: $\varnothing 300 \text{ mm}$ (11.8")
Weight: 18kg (39lb)
Power: 20-30VDC, 250W

Daylight TV Camera

Type: Full HD 1080p
Image Sensor: 1/2.8" CMOS
Number of pixels: $\approx 2,380,000$ Pixels
Optical Zoom: 30x (60° to 2°)
Digital Zoom: Yes

Thermal IR Camera

Array Size: 1024x768 pixels
Lens: $12^\circ \times 16^\circ$ (optional $24^\circ \times 32^\circ$)
Detector: Micro bolometer FPA
Spectral Range: $7.5\text{-}14 \mu\text{m}$
Thermal sensitivity: $<0.05\text{K}$
Focus: Manual and Auto Focus
Digital Zoom: Yes
Temp Accuracy: $\pm 1.5^\circ\text{C}$, ($\pm 1.5\%$ of reading)

Corona UV Camera

Detector: Bi-Spectral UV, Solar Blind Imager
FOV: $8^\circ \times 6^\circ$
UV Sensitivity: $3 \times 10^{-18} \text{ Watt/cm}^2$
Focus: Auto Focus
Features: Gain, Counting

Accessories

Standard Config: TCU, HCU, IFU, Cables.
Optional: Radiometric Package including Report generating Software, Laser Range Finder Etc.
Installation Kit: Available for most helicopter types, please enquire

