



## SWE-300 HDIR

### Cost-effective Inspection System with High Resolution Radiometric Infrared and HD TV cameras.

#### GYRO STABILIZED GIMBAL

For stable, long range imaging, a fully digital 4-axis active gyro stabilization system compensates for aircraft maneuvering and eliminates external vibrations.

#### SUPERIOR PERFORMANCE THERMAL IR

High precision measurement accuracy, superb image quality and long-wave solar reflection immunity provide outstanding performance for applications requiring real time temperature readings.

#### THERMAL RADIOMETRIC OUTPUT

The radiometric output provides full thermal resolution images for temperature analysis and reporting.

#### GEO-REFERENCING/TRACKING

The IMU/INS combined with the laser rangefinder provides and holds the geographical locations of points of interest. The tracker locks the camera to any structure or scene.

#### RELIABILITY - ENVIRONMENTAL DESIGN

In order to ensure reliability, the gimbal is designed according to RTCA DO 160 standards.



#### FEATURES & APPLICATIONS

The SWE-300 HD multi-sensor imaging system offers commercial users the capability to measure temperatures in real time and to collect high resolution video from an airborne platform. The systems can be fully integrated with geo-spatial recorders, mapping systems and reporting software to deliver comprehensive fault reports to industry users. The products are completely ITAR-free and are widely exportable.

#### Typical applications include:

- Powerline asset inspection
- Right of Way (ROW) surveys
- Storm damage assessment
- Pipeline inspection
- Agriculture monitoring
- Environmental surveys
- Animal surveys
- Forest fire fighting and mapping
- Building heat loss measurement



## SWE-300 HDIR

- Two unique sensors combined into a compact Dual Camera platform
- Real time temperature measurements and radiometric temperature analysis
- High Definition TV video camera
- Geo-location and Geo-pointing
- Scene/Object tracking

### PERFORMANCE SPECIFICATIONS

#### GIMBAL SYSTEM

Type	Four Axis Active Gyro Stabilized Gimbal
Stabilization	≈ 15 μRad
Coverage Az	360° continuous
Coverage El	+90° to -120°
Dimension	Ø 300 mm (11.8")
Weight	17kg (37lb)
Power	20-30VDC, 250W

#### THERMAL IR CAMERA

Array Size	1024x768 pixels
Lens	12°x16° (optional 24°x32°)
Detector	Microbolometer FPA
Spectral Range	7.5-14μm
Thermal Sensitivity	<0.05°K
Focus	Manual and Auto Focus
Digital Zoom	Yes
Temp Accuracy	+/-1.5°C, (+/-1.5% of reading)

#### DAYLIGHT TV CAMERA

Type	Full HD 1080p
Image Sensor	1/2.8" CMOS
Number of Pixels	≈ 2,38 Megapixels
Optical Zoom	30x (60° to 2°)
Digital Zoom	Yes

### ACCESSORIES

Standard Config	Turret Camera Unit, Hand Control Unit, Interface Unit, Cable Kit
Optional	Radiometric Package including thermal analysis and report generating Software IMU/INS and LRF for GEO reference capabilities Scene/Object tracking
Installation Kit	Available for most helicopter types, please enquire



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