

## **Electro Optical and Infra-Red Multi-Spectral camera An ISR Camera**

HYTEC Model HTS130CT-03 is a three- axis gyro stabilized gimbal platform, that support 360° continuous rotation, has a built-in 30X HD zoom camera, longwave infrared camera (LWIR uncooled) and laser rangefinder.

HYTEC HTS130-CT-03 is a EOIR camera with gimbal support. It is used in fixed-wing, rotor-wing, and unmanned platforms (AV and Drone) for Search and Research, Farming, Intelligence, Surveillance, and Reconnaissance (ISR), etc. Included sensors are Visible camera with 30x zoom optics, LWIR (uncooled) and a Range Finder. The gimbal support has 3-axis servo for remote pan-tilt operation and tracking.

The main application is airborne imaging detection, recognition, tracking and ranging and positioning. etc, therefore, it meets the needs of mapping, surveillance, reconnaissance and other application scenarios.

### **Functions and Benefits**

- Provide the HD visible and long wave infrared video and image for detection area
- High precision visual axis stabilization function
- Capability of detection and recognition for ground target
- Support search, tracking, lock, guiding, etc working ways
- Character overlay, custom and display functions.
- Target positioning functions
- Laser ranging function
- Self - check and fault diagnosis function



HTS130CT-03



For more information, please contact:

**HI-TECH**  
**Electronics Pte Ltd**

 (65) 8855 3883  
 sls@hitech.com.sg

**HI-TECH Resources**  
**(Thailand) Co., Ltd**

 (66) 094-1155-699  
 info@hitec.co.th



## SPECIFICATIONS

### Visible Camera

- Wavelength: 0.4 $\mu$ m~0.9 $\mu$ m
- Resolution: 1920 $\times$ 1080
- Focal Length: 4.3mm~129mm(30X)
- FOV: 63.7 $^{\circ}$ ~2.3 $^{\circ}$
- Distance: People Detection 6km,  
Recognition 2km
- Vehicle: Detection 15km,  
Recognition 8km

### LWIR(Un-Cooled) Camera

- Wavelength: 8 $\mu$ m~14 $\mu$ m
- Resolution: 640 $\times$ 512
- Pixel: 12 $\mu$ m
- NETD: 50mk
- Focul length: 25mm/F1.0
- FOV: 17.4 $^{\circ}$  $\times$ 14 $^{\circ}$
- Distance: People Detection 0.7km,  
Recognition 0.2km
- Vehicle: Detection 4.2km,  
Recognition 1km

### Laser Rangefinder

- Wavelength: 905nm
- Ranging distance: 5m~2000m
- Ranging accuracy:  $\pm$ 2m
- Ranging frequency: 1Hz

### Servo System

- Rotation limits: 360 $^{\circ}$  continuous Pan
- Pitch: -120 $^{\circ}$ ~+30 $^{\circ}$
- Rolling: -40 $^{\circ}$ ~+40 $^{\circ}$
- Stabilization accuracy:  $\leq$ 200 $\mu$ rad  
(2 $^{\circ}$ /1Hz, 1 $^{\circ}$ /2Hz swing)
- Max.angular speed:  $\geq$ 50 $^{\circ}$ /s
- Max.angular acceleration:  $\geq$ 90 $^{\circ}$ /s<sup>2</sup>

### General

- Size:  $\leq$  $\Phi$ 130mm $\times$ 194mm
- Weight:  $\leq$ 1.24kg
- Voltage: 12V
- Power consumption(Average ):  $\leq$ 15W
- Power consumption(Peak ):  $\leq$ 30W
- Working temperature: -20 $^{\circ}$ C~+60 $^{\circ}$ C

### Tracking Functions

- Motion speed: 30pixel/frame
- Target imaging contrast: 8%
- Target imaging pixel (Mini): 4x3 pixels
- Supports separate video streams output of dual cameras (visible,IR)
- Anti -occlusion without loss of function

### Interface

- Communication: 1 $\times$ RS422/RS232(TTL optional)
- Video: Ethernet

### Notes:

- Specifications subject to changes without prior notice
- EOIR configuration can be customised.

### More products





For more information, please contact:

**HI-TECH**  
**Electronics Pte Ltd**

 (65) 8855 3883  
 sls@hitech.com.sg

**HI-TECH Resources**  
**(Thailand) Co., Ltd**

 (66) 094-1155-699  
 info@hitec.co.th

