

Thermal Security Monitoring

General information about ADTC-7042SM Thermal Security Monitoring Systems:

ADTC-7042SM gimbal system is a professional dual camera system designed for aerial surveillance, facility inspection, search&rescue and other tasks. System is specially designed for aerial operation for UAV, but can also be used on real airplanes, helicopters, ground vehicles and stationary objects.

Main Features:

- ✓ Small volume, light weight , 170mm diameter, 3kg weight
- ✓ High precise three-axis gyro-stabilization platform
- ✓ 640x480 high resolution thermal imager
- ✓ 30X continuous focus, 1920x1080 high clear visible light camera
- ✓ Day-night type HD vide CCD or star-level CCD is optional



Technical specification of the device:

Thermal Imaging Camera:

Detector type: FPA, uncooled detector
IR resolution: 640×480
Pixel pitch: 17μm

Stabilized Platform:

Stabilized precision: 1mrad(RMS)
Angle range(course): -170°~+170°
Angle range: -110°~+110°
Angle range(roll): -20°~+20°
Angular velocity: ≥60°/s
Tracking accuracy: ±2 pixel
Gimbal size: 170mm(W) x 240mm(H)

Image Performance:

Lens FOV: 17.8° x 13.4°
Lens focal distance: 35mm
Frequency: 50Hz
Polarity/LUT mode: Black hot/White hot

CCD Camera Performance:

Lens FOV: 2.3°~63.7°
Lens focal distance: 4.3mm~129mm
Resolution: 1920×1080
Amplification: 2X, 4X
Zoom: 30X optical, 12X digital
Focus: Auto

Interface:

Video output: HDMI
Control: RS422

Power System:

Working voltage: DC: 12V±20%
Power consumption: ≤20W(average, max≤50W)





Environmental Parameters:

Operating temperature range: $-35\text{ }^{\circ}\text{C}\sim+55\text{ }^{\circ}\text{C}$

Storage temperature range: $-40\text{ }^{\circ}\text{C}\sim+65\text{ }^{\circ}\text{C}$

Humidity: $5\%\sim95\%$ (non-condensing)

Vibration: $1.5\text{G}\sim500\text{Hz}$ sinusoidal distribution

Shock: 30G shock pulse, use 6ms half sinusoidal distribution

Physical Data:

Weight: 3Kg

