GeoSat Microwave

- ◦ *Seaport & Airport safety and security monitoring;*
- ◦ *River & lake monitoring;*
- ◦ *Key material monitoring,*
- ◦ *Military base security monitoring;*
- ◦ *Oilfield and oil depot security;*

Hadeous Long Range Zoom Thermal Imaging Camera
Model: GSM0734H

Model	GSM0734H	GSM0736H
General Specification		
Detection	Vehicle:6500m	
	Human:2500m	
Identification	Vehicle:1800m	
	Human:700m	
Sensor	5th generation VOx Detector	
Resolution	384 × 288 pixel	640 × 512 pixel
Spectral range	7.5～14μm	
NETD	50mK	
Focal length	25 - 75mm, 0.68 - 0.22mrad	
Field of view(horizontal)	14.8° × 11° - 4.9° × 3.7°	24°×18° - 8°× 6°
Lens Control		

1. Zooming: Electrical Zoom.

2. Focusing: Manual/Auto Focus (3A adaptive active focusing algorithm, supports multiple trigger modes with high precision and speed).

3. Optical machine: 3CAM mode and AS+DOE optical structure, high infrared over transmission, zoom process without virtual focus, smaller axis.

Image processing

1. Image enhancement: SDE digital image processing.

2. Pseudo colour polarity: 16 pseudo color and B/W, B/W conversion.

3. Image parameter: AGC automatic gain control, brightness and contrast.

4. Digital zoom: 2X, 4X digital amplification.

5. NUC Correction: Auto/Manual correction, background correction.

6. Hot-points analysis: support multiple hot-points box show alarm function.

Enhancement

1.   Strong Light Protection: Support anti sunburn function.

2.   Temperature correction: no thermal imagery design, thermal imaging clarity is not affected by temperature.

3.   Scene mode: support multi-configuration scenarios, adapt to different environment applications.

4.   Lens Servo: Support the functions of lens preset, focal length return and focal length location.

5.   Azimuth Information: support angle query/real-time return and positioning, support azimuth video overlay real-time display.

6.   Remote Maintenance: Support remote upgrade of embedded programs, convenient for after-sales maintenance.

7.   Parameter Settings: OSD Menu Remote Call Operations.

Intelligence Function (Optional)

1.   Auto-tracking system;
2.   Anti-drone tracking system;
3.   Panoramic stitching;
4.   Radar linkage;
5.   Hot-point alert;
6.   Patrol detection;
7.   3D zooming/positioning selection;
8.   Analysis: Invasion, leaving, straggling, retention, lingering, target trajectory.

(The above functions need to be implemented in conjunction with general software and network modules)

Interface

1. RS-485（PELCO D protocol, Baud rate 2400bps）、RS-232（optional）;

2. Remote OSD setting;

3. PAL/NTSC video output;

4. AC24V/DC12V;

5. Waterproof aviation connector

Environment Parameter

1. One integral aluminum alloy housing;

2. Operating temperature: -25 ~55 (-40 Optional);

3. Storage temperature: -35°～70°;

4. Humidity: <90%

5. Seismic resistance: 0.2g (in accordance with GB/T15211-2013's 5.4 Harsh grade 2);

6. Impact resistance: 15g (in accordance with GB/T15211-2013's 5.3 Harsh grade 3);

7. Lightning protection: interface circuit with built-in surge protection, 4000V power supply, 2000V signal;

8. Salt spray proof: continuous spray for 48 hours at pH 6.5 to 7.2, no change in surface.

9. Protection Level: IP66

PTZ (Optional)

1. Rotation: pan: 0～360°, tilt: -70～+30°

2. Rotation speed: Pan: 0.01° ~ 60°/S, tilt: 0.01°/S ～30°/S

3. 200 presets

4. Accuracy: ±0.1°

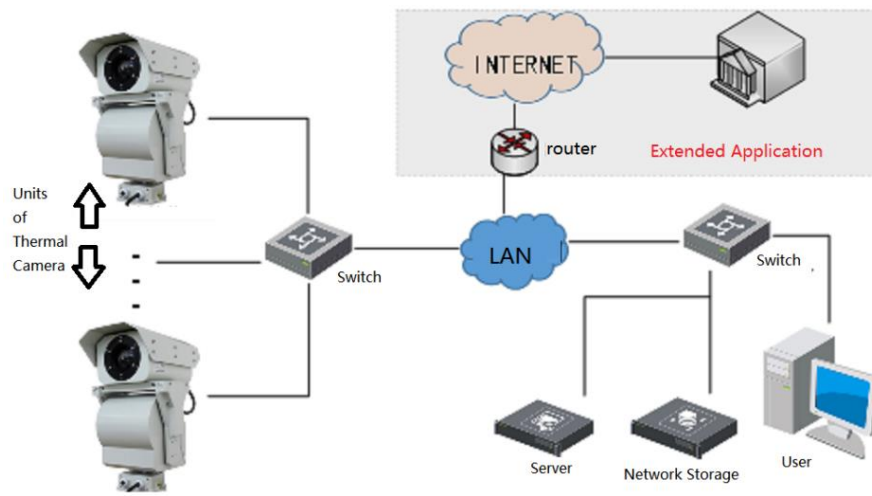5. Cruise line: Support multiple cruise-line scanning.

6. Keep Watching: Preset/Auto-Patrol/Auto-Scanning.

7. Power Off Memory: Support(Can restore the position before power off, patrol status, line-scanning status).

8. Azimuth information: support angle query, real time return, positioning; support azimuth video overlay real time display.

9. Null-point Correction: support north null-point remote correction function.

10. Power consumption: about 80W

Housing

1. Material：aluminum alloy housing, waterproof, to avoid mold and moisture;

2. Structure：Integral single window design;

3. Surface：PTA coating, anti sea water corrosion;

4. Sealing rate：IP66 (IP67 Optional)

5. Built-in temperature controller，thermal balance design;

6. Interface：aviation waterproof connector

Network Module

1. IP Connection：RJ45,10/100 Base-T Adaptor (Integrated Video Output and RS485 Control)

2. Network Protocol: Support TCP/IP, UDP, IPv4/v; Support HTTP, RTP, RTSP, NFS, DHCP, NTP, SMTP, SNMPv1/v2c/v3, UPNP, PPPoE, DNS, FTP; Support PSIA、ONVIF, etc.. (optional)

3. Encoding: H.264,Mpeg-4,Mpeg-2,MJPEG

4. Resolution: D1/4CIF/2CIF/CIF/QCIF

5. Frame rate: 25PAL/30NTSC Frame@D1

6. Local storage: support one 32G microSD card

7. Power consumption: about 6W

Networked Intelligent Application