AGT-HDSN0734/0736 Hadeous Long Range Zoom Thermal Imaging Camera

Product's Highlights:

1. Design based on the latest uncooled IR sensitive technology and continuously IR optical zoom.
2. Configured with 384 x 288 or 640 x 512 resolution uncooled FPA sensor, advanced digital circuit and image processing algorithm.
3. Middle-long distance imaging design with 3X optical zooming lens which can detect to 6.5km.
4. Image enhancement with 50mk NETD during foggy/rainy/snow weather days.
5. Special AS+DOE optical zooming lens and 3CAM high-precision optomechanical design suit for both large-scale and long-distance observation.
6. Non-uniform image correction technology, stable working temperature without TEC, good image uniformity and dynamic range.
7. SDE digital image processing, no image noise, 10 pseudo colour image and B/W, B/W inverse.
8. Strong light protection, anti-sunburn prevention, supports multi-configuration scenarios to adapt to different environmental applications.
9. Intelligent functions: Supports hot-point alert system, transgression and invasion detection, target tracking system etc. to achieve the "unmanned guardian's" purpose.
10. One integral aluminium alloy housing, weatherproof IP 66, waterproof, anti-dust.
11. Integrated with a highly sensitive FPA sensor, both electronic and optical systems which can penetrate through fog/dust/rain/snow/haze for 24 hour monitoring.

Application Range:

1. Seaport & Airport safety and security monitoring;
2. River & lake monitoring;
3. Key material monitoring,
4. Military base security monitoring;
5. Oilfield and oil depot security;
6. Forest, grassland, coal mine, granary fire monitoring;
7. Ecological and environmental monitoring;
8. Border and coastal defence monitoring;
9. Urban high-altitude;
10. Anti-UAV (drones) tracking;
11. Highway, expressway, and railway system monitoring.

Specification:

Model	AGT-HDSN0734	AGT-HDSN0736
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

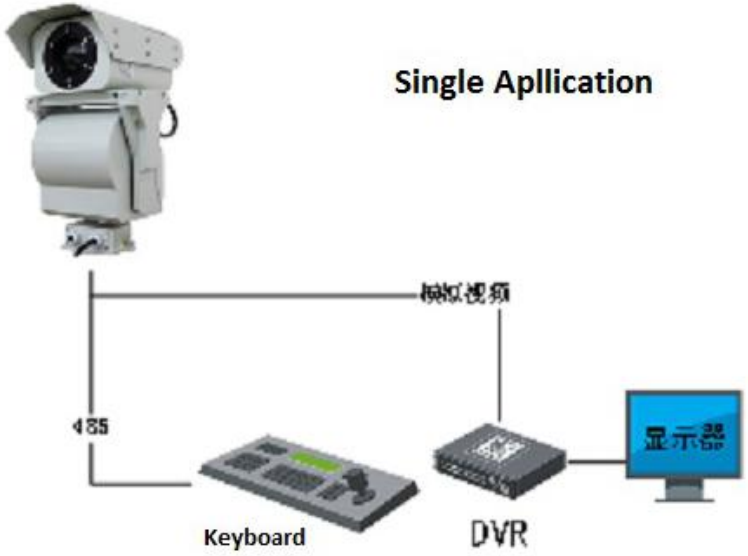
Housing

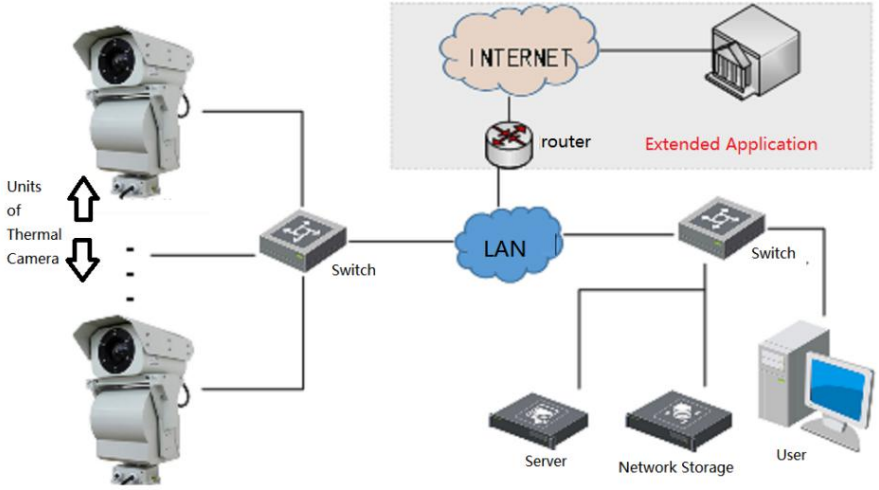
1. Material：aluminum alloy housing, waterproof, to avoid mold and moisture;
2. Structure：Integral single window design;
3. Surface：PTA coating, anti sea water corrosion;
4. Sealing rate：IP66 (IP67 Optional)
5. Built-in temperature controller，thermal balance design;
6. Interface：aviation waterproof connector

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

* The detection distance is related to the object and environmentetc. Please contact with us for further information.





Networked Intelligent Application

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