

AGT-HDSN1654/1656 Hadeous Long Range Zoom Thermal Imaging Camera



Product's Highlights:

1. Designed 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 the distance of 13km.
4. Enhance the image 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 color image and B/W, B/W inverse.
8. Strong light protection, anti-sunburn prevention, support multi-configuration scenarios, adapt to different environment applications.
9. Intelligent functions: Support hot-point alert system, transgression and invasion detection, target tracking system etc... to achieve the unmanned guardian purpose.
10. One integral aluminum alloy housing, weatherproof IP 66, waterproof, anti-dust.
11. Integrated with high sensitive FPA sensor, both electronic and optical systems, which could penetrate through fog/dust/rain/snow/haze and support for 24 hours 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's fire monitoring;
7. Ecological and environmental monitoring;
8. Border and coastal defense monitoring;
9. Urban high-altitude;
10. Anti-UAV (drones) tracking;
11. Highways, expressway, and railways system monitoring.

Specification:

Model	AGT-HDSN1654	AGT-HDSN1656
General Specification		
Detection	Vehicle:13000m	
	Human:4800m	
Identification	Vehicle:3400m	
	Human:1300m	
Sensor	5th generation uncooled focal plane array VOx Detector	
Resolution	384 × 288 pixel	640 × 512 pixel
Spectral range	7.5~14μm	
NETD	50mK (@25°C F1.0)	
Focal length	31 - 155mm, 0.56 - 0.11mrad	
Field of view(horizontal)	12.4° × 9.3° - 2.5° × 1.8°	20°×15° - 4°× 3°
Len 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. Load: 30kg (optional 50kg)
2. Rotation: pan: 0~360°, tilt: -45°~+45°
3. Rotation speed: Pan: 0.01°~30°/S, tilt: 0.01°/S ~15°/S
4. 200 presets
5. Accuracy: ±0.1°
6. Cruise line: Support multiple cruise-line scanning.
7. Keep Watching: Preset/Auto-Patrol/Auto-Scanning.
8. Power Off Memory: Support(Can restore the position before power off, patrol status, line-scanning status).
9. Azimuth information: support angle query, real time return, positioning; support azimuth video overlay real time display.
10. Null-point Correction: support north null-point remote correction function.
11. Power consumption: about 100W

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 (Optional)

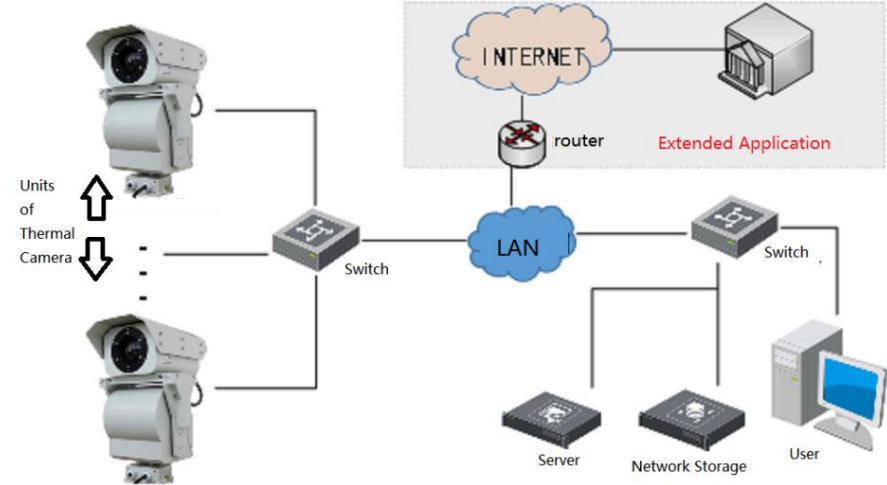
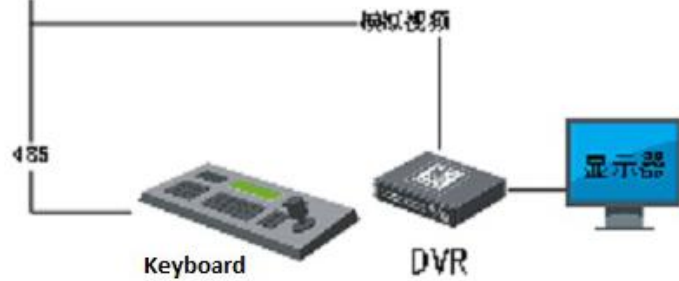
1. IP Connection: RJ45,10/100 Base-T Adaptor (Integrated Video Output and RS485 Control)
2. Network Protocol: Support TCP/IP, UDP, IPv4/v; Support HTTP, RTP, RTSP, NFS, DHCP, NTP, SMTP, SNMPv1/v2c/v3, UPNP, PPPoE, DNS, FTP; Support PSIA、ONVIF, etc.. (optional)
3. Encoding: H.264,Mpeg-4,Mpeg-2,MJPEG
4. 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 environment etc. Please contact with us for further information.

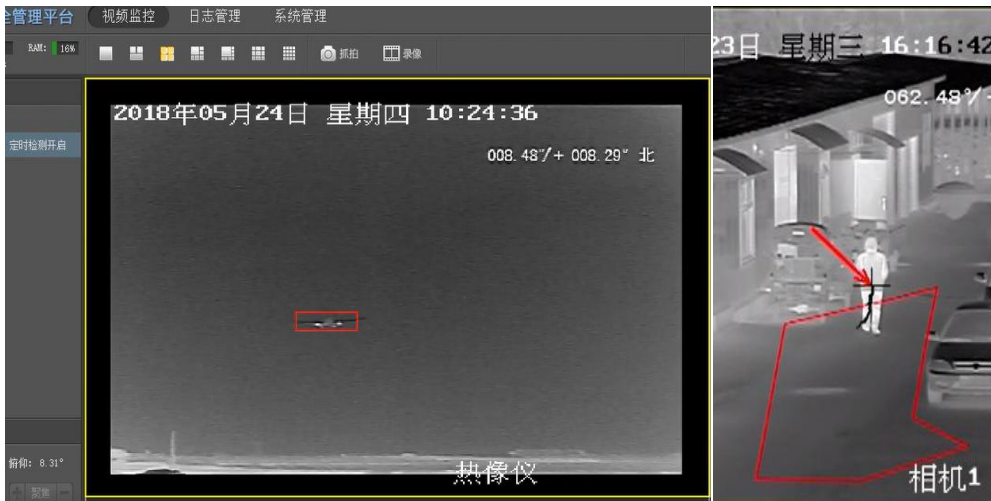




Single Application



Networked Intelligent Application



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