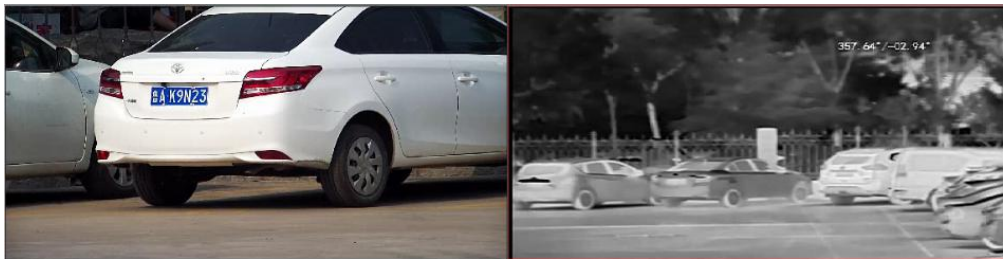
AGT-URDN0734/0736-3002 Uranous Ride Light-Duty Intelligent Dual Sensor Thermal Imaging Camera



Product's Overview:

This Uranous series of intelligent dual sensor camera are designed and developed based on the latest generation of uncooled thermal technology and high-definition visible imaging technology, for long-distance day and night monitoring. It's an advanced intelligent monitoring product which integrates optics, mechanics, electronics and image. It consists of:

- ✓ infrared thermal imaging;
- ✓ high-definition integrated camera;
- ✓ power mechanism, precision transmission device;
- ✓ digital decoder;
- ✓ high-performance image processing unit and controller.

This camera:

- ➢ has simple structure, compact and delicate structure design;
- ➢ high positioning accuracy and reliability;
- ➢ flexible, fast, stable start and stop, and easy to control and operate.;
- ➢ configured with the functions of multi-point target preset, memory, automatic cruise, and so on;
- ➢ position anywhere to achieve real all-round blind spot monitoring;
- ➢ automatically adapts to the brightness of the environment and automatically adjusts the distance to the target and the size of the image;
- ➢ high performance-price ratio.

The housing is made of a super-strong aluminium alloy to achieve IP66 protection level to guarantee the camera is operated for longer and more stable in harsh outdoor environments making it suitable for image acquisition under testing circumstances.

Product's Highlights:

1. Integration with infrared thermal imaging, high-definition visible camera & video coding, cloud cover and control electronic system. Its integrated design is highly centralized and easy to install and use.
2. The latest generation of VOx detectors based on MEMS technology has a detection sensitivity of up to 50 mk = higher sensitivity than other conventional products resulting in more delicate picture quality = less affected by fog, rain and overcast / snow weather.
3. Unique AS optical, high precision mechanical design, to reach superb imaging quality;
4. Excellent non-uniform image correction technology provides good image uniformity and dynamic range.
5. SDE image detail enhancement technology, image smoothness and noise-free, multi-pseudo-color and hot-black-hot-white polar image mode switching, strong adaptability, easy to find low contrast hidden targets;
6. Visibility is based on a full HD color/black and white dual mode low illumination CMOS sensor design, 30 times more compact continuous zoom lens, small size, light weight;
7. Light-load CNC Pan-Tilt, 360° continuous rotate observation feature - there are no dead angles, smooth operation and small image jitter.
8. Strong light protection and sun burn protection, supports multi-configuration scenario mode, and adapts to different situations.
9. Supports intelligent functions such as cross-border/intrusion detection and cruise grouping detection to assist in unmanned operation
10. Based on IP full network design, a single network line match with all video, alarm data and positioning data interactive transmission, and easy for networking and implementing.
1. The whole machine is made of super-strong aluminium alloy shell, IP66 protection, rain and dust proof to adapt to various harsh environments.

Application Range:

1. Seaport & airport security and safety monitoring;
2. Railway system monitoring;
3. Night gathering evidence;
4. Oilfield security;
5. Tourist spot;
6. Natural reserves land monitoring;
7. City Security and Safety Monitoring & Surveillance

Specification:

Model	AGT-URDN0514-3002	AGT-URDN0516-3002
General Specification		
Detection	Vehicle: 6500m	
	Human: 2500m	
Identification	Vehicle: 1800m	
	Human: 700m	
Sensor	5th generation UFPA VOx sensor	
Resolution	384 × 288 pixel	640 × 512 pixel
Spectral range	7.5～14μm	
NETD	50mK (@25℃ F1.0)	
Focal length	25 - 75mm F1.0	
Field of view(horizontal)	14.8° X 11° - 4.9° X 3.7°	24° X 18° - 8° X 6°
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-point analysis: support multi hot-point targets detection with box display alarm function.		
Visible Camera		
Camera	1. Surface: 1/2.8" Star Level CMOS, Integrated ICR Dual Filter D/N Switch; 2. Resolution: 2 million pixels, 1920 x 1080 3. Illumination: 0.05Lux high sensitive colour, 0.01Lux black and white; 4. Encoding: H.264 video format, supporting multi-stream;	
	5. Video Bit Rate: 32Kbps-16Mbps, 60Hz 30 frames/second 6. Support SD card local storage, support regional invasion, cross-border invasion, face detection, audio anomaly detection, alarm linkage; 7. Supporting white balance, electronic shutter, strong light suppression, 3D digital noise reduction, wide dynamic, anti-infrared overexposure.	
Lens	1. Focal Length: 8 - 320mm, 210 mil electrical focus; 2. Focusing: manual/auto focus, 3A adaptive active focusing algorithm, supporting multiple trigger modes, accurate and speedy; 3. Aperture: automatic; 4. Night-day wide spectrum: 0.4-0.75um visible broad spectrum window and 0.8-0.95um NIR narrow spectrum window with day-night independent double-pass window to improve the signal-to-noise ratio of imaging light and stray light. 5. Preset position: precision potentiometer, zoom focusing feedback.	
Housing		
1. Material: Integral aluminum alloy housing; 2. Structure: integrated double side-load design; 3. Window glass: 4mm microcrystalline infrared high-efficiency transparent HLIN optical glass, transmittance > 98%; 4. Wiper: build-in wiper, continuously wiping/stop automatically; 5. Heater/defrost: support; 6. Temperature control: The whole system adopts thermal balance design + wide temperature electronic and optoelectronic devices, with built-in heating and heat dissipation components, which can work in low temperature and high temperature environment.		
PT		

1. Pan: 0 - 360° continuously，Tilt: +90°～- 90°
2. Rotation speed：Pan: 0.01～100°/S，Tilt: 0.01～60°/S, support with lens focus speed adaptive function;
3. Preset: 128 preset, support lens zooming and focus preset;
4. Accuracy: ±0.1°;
5. Cruise Line-Scan: support 6 cruise line, 1 line scan;
6. Watching: Pre-positioning/Automatic Cruise Route/Automatic Scanning Route
7. Azimuth Information: Support angle query, return and positioning;
8. Zero correction: support for north-to-zero remote correction function.
9. Suspension: vehicle-mounted shock absorbing base.

Enhancements (Optional)

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. Day and night cruise: D/N group-cruising for different preset groups, day cruise 1-40 preset, night cruise 41-80 preset, according to the light-sensitive state automatically switch to day or night mode, adapt to different space-time scenarios.
6. Azimuth Information: support angle query/real-time return and positioning, support azimuth video overlay real-time display.
7. Remote Maintenance: Support remote upgrade of embedded programs, convenient for after-sales maintenance.
8. Parameter Settings: OSD Menu Remote Call Operations.

Intelligence Function (Optional)

1. Regional intrusion detection support;
2. Border-Crossing intrusion detection support;
3. Panoramic stitching;
4. Radar linkage;
5. Auto-tracking support;
6. Multi-scene group cruising support;
7. 3D zooming/positioning selection;

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

Interface

1.Network interface: RJ45. 10/100 Base-T adaptive (integrated video output and RS485 control)
2.Network protocol: TCP/IP, UDP, IPv4/v6; support HTTP, RTP, RTSP, NFS, DHCP, NTP, SMTP, SNMPv1/v2c/v3, UPNP, PPPoE, DNS, FTP; support PSIA, ONVIF2.0, GB28181 protocol.
3.Power supply: AC/DC24V, Anti-reverse connection protection;
4.Interface：aviation waterproof connector.

Environment Parameter

1. Operating temperature: -25 ~ +60;
2. Storage temperature: -45°～ +70°;
3. Humidity: <90%;
4. Power Off Memory: Support(Can restore the position before power off, patrol status, line-scanning status);
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 96 hours at pH 6.5 to 7.2, no change in surface.
9. Protection Level: IP66

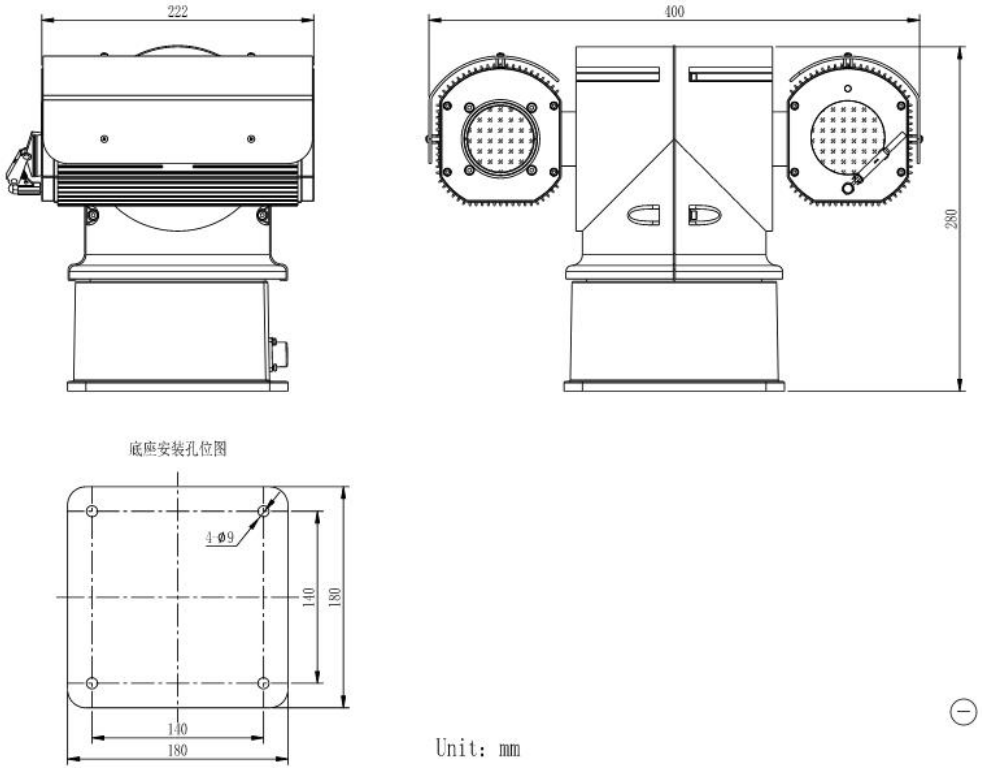
Other Specification

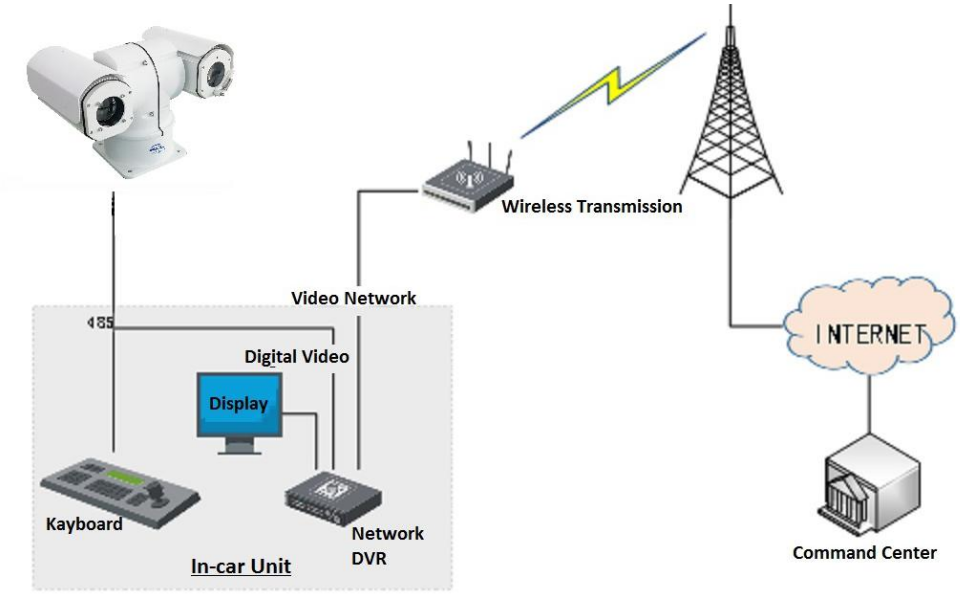
1. Weight: 8.5kg
2. Power consumption: 50W

Optional Add-On Function

1. Vibration resistance damping base.
2. Vehicle mounted power supply: DC12V that suitable for vehicle mounted power supply.

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





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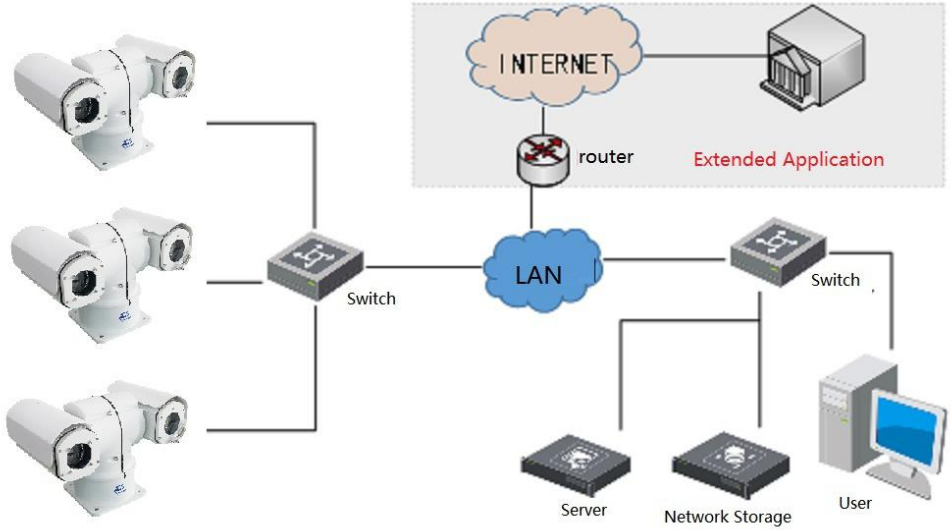

Networked Intelligent Application