

AGT-MSQN3202 Medusas' Gaze HD IR Laser Imaging Camera



Product's Highlights:

1. **Medusas'** MSQN series consists of HD Visible Camera + Night Vision (NV) IR Laser Illuminator which is suitable for 24 hour monitoring.
2. The detection distance for human/car/object is 2km+ during day time and 1km+ at night.
3. With its built-in technical grade embedded control electronic system, the camera is stable and accurate when zooming, focusing, video switching, and during rotation.
4. With DSS digital stepper illumination angle control, unique laser zooming and distance matching technology plus min 0.1° follow-up zooming.
5. GHT-II super homogenizing and power consumption control of the Night Vision (NV) IR ensures a better effect.
6. Independent photosensitive control circuit + precise synchronizing switching of laser and camera between day-night mode
7. Precise double optical alignment, 0.01° SLM optical self-locking alignment.
8. Heavy duty Pan/Tilt (PT), 360° continuous rotation observation, no dead angle, smooth and less image distortion.
9. One integral aluminium alloy housing, IP66 protection, waterproof, dust-proof, adapts to all kinds of harsh environments.

Application Range:

1. Navigation;
2. Fishery and aquaculture monitoring;
3. Seaport & airport security and safety monitoring;
4. Lake, river & water system monitoring;
5. Oilfield security;
6. Forest fire prevention;
7. City Security and Safety Monitoring & Surveillance



Laser Effect By Argustec Technology

Other Brands

Specification:

Model	AGT-MSQN3212
Detection	
Day: 2 km+;	
Night: 1 km+	
Laser	
Laser Light Source	<ol style="list-style-type: none"> Consumption: 10W; Wavelength: 810nm; Laser angle: 1°~20°; Encapsulation: the illuminator is sealed with inert gas to prevent oxidation; Using distributed laser design, laser emitter and high-temperature components are directly affixed to the shell's cooling fins, that have stronger heat dissipation capability if compared with the modular laser.
Laser Len	<ol style="list-style-type: none"> Lens form: 25X f0.8 - 20mm ultra-short focal zoom patented technology, laser 400 micron cross-section imaging lens; Transmittance: multi-layer NIR Anti-reflective coating, high efficiency laser coupling; Homogenization: GHT-II super homogenization HD illumination patented technology, full focus spot brightness equilibrium is > 92%; Laser Safety: Using ZQB safety laser beam processing patented technology, which complying with International IEC60825 Safety Standard; Focus Angle Positioning: Precision digital drive positioning. <i>Spot form: (Optional: elliptical spot illuminator - the spot always keeps elliptic in the process of change, better matching with 16:9 HD camera picture, where the laser utilization rate increased by 30%)</i>
Angle and	<ol style="list-style-type: none"> Matching method: Automatic tracking or manually fine-tuning

distance matching	<p>intelligent matching method;</p> <ol style="list-style-type: none"> Synchronization control: DSS digital stepping illumination angle control technology, 0.1 degree precise servo control; Response time: Z-super laser angle and imaging ratio matching algorithm, tracking response time less than 500 ms; Synchronization effect: Laser synchronization effect adjusts the modes of cut-in, cut-out and full-screen coverage, which can be set arbitrarily according to the scene remotely. Optical axis alignment: SLM double optical axis self-locking alignment device, the accuracy can reach 0.01 degrees, reserve external alignment window, without cover removal maintenance
Laser Switch	<ol style="list-style-type: none"> Control mode: Mandatory opening, mandatory closing and photosensitive automatic control, can be set remotely. Photosensitive synchronous control: independent photosensitive control circuit, precise synchronous switching of laser switch and camera into day-night mode. Data Processing: Built-in Intelligent Anti-Strong Light Jamming Algorithms, Shielding the False Switches Caused by Strong Light at Night
Visible Camera	
Camera	<ol style="list-style-type: none"> Surface: 1/2.8" Star Level CMOS, Integrated ICR Dual Filter D/N Switch; Resolution: 2 million pixels, 1920 x 1080 Illumination: 0.05Lux high sensitive colour, 0.052Lux black and white; Encoding: H.265/H.264/MPEG4/MIPEG video format, supporting multi-stream; Video Bit Rate: 32Kbps-16Mbps, 60Hz 30 frames/second Support SD card local storage, support regional invasion, cross-border invasion, face detection, audio anomaly detection, alarm linkage;



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	7. Supports AFR fog penetration, electronic anti-shake, strong light suppression, 3D digital noise reduction, anti-infrared overexposure, ABF automatic rear focus adjustment function
Lens	<ol style="list-style-type: none"> 1. Focal Length: 8 - 320mm, 210 mil electrical focus (Optional: 12.5 - 750mm lens); 2. HD infrared correction: Optical IR correction design, diurnal focus; 3. Auto aperture: support; 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, DC5V, zoom focusing feedback 6. Interface: C/CS
Penetrate fog (Optional)	Optical filtering and AFR optoelectronic enhanced image processing technology, color penetrate fog
LPR (Optional)	Avoid strong light, license plate recognition

Housing

1. Material: Integral aluminum alloy housing, sealed and waterproof;
2. Structure: integration double window design;
3. Window glass: 4mm microcrystalline infrared high-efficiency transparent HLIN optical glass, transmittance > 98%;
4. Surface spraying: PTA three-resistance coating, anti corrosion (optional);
5. 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.
6. Weather proof: IP66, water-proof, dust-proof;
7. Connector: Aviation Water-Proof Connector.

PT

1. Load duty: 30kg CNC Pan-Tilt;
2. Pan: 0 - 360° continuously, Tilt: -70°~+30°
3. Rotation speed: Pan: 0.01~60°/S, Tilt: 0.01~30°/S, support with lens focus speed adaptive function;
4. Preset: 255 preset, support lens zooming and focus preset;
5. Accuracy: ±0.1°;
6. Cruise Line-Scan: support 6 cruise line, 1 apple-skin scan, 1 line scan;
7. Watching: Pre-positioning/Automatic Cruise Route/Automatic Scanning Route
8. Power-off memory: support (restoring pre-power-off position, preset point status, cruise status, line-scanning status)
9. Azimuth Information: Support angle query, return and positioning;
10. Zero correction: support for north-to-zero remote correction function.
11. Power consumption: about 80W
12. Weight: 15kg

Enhancements (Optional)

1. Auto-focus tuning: support remote auto-focus precision parameter adjustment, adapt to different scenarios;
2. Day and night cruise: D/N cruise with different preset groups, day cruise 1 - 40 preset, night cruise 41 - 80 preset, according to the photosensitive status will automatically D/N switching, adapt to different space-time scenarios;
3. Temperature Compensation: TCS automatic rear focus compensation function, adapts to a wide range of high and low temperature changed environment, the rear focus remained clear always;
4. Remote Maintenance: Support the remote upgrade of embedded programs, convenient for after-sales maintenance;
5. *Wipers: (Optional: built-in wipers);*
6. *Window cleaning: (Optional: external small sprinkler, self-storage water, freezing without damage, won't affect the camera's function);*
7. *Lens Servo: (Optional: Lens Focus Field of View Return/Location Function);*
8. *Extension module: (Optional: extended functions such as GPS, laser ranging, etc.);*

9. *Extended interface: (RS422/485 and analog video can be reserved, azimuth data can be returned for radar, GIS linkage positioning, or third-party intelligent analysis);*
10. *Optical network: (Optional: built-in fiber module, single mode fiber output, improve anti-jamming)*

Intelligence Function (Optional)

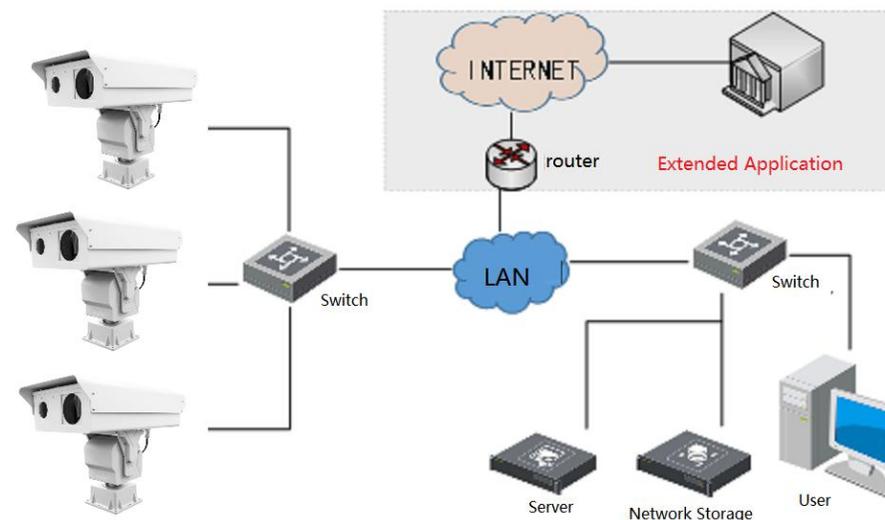
1. Regional intrusion detection support;
 2. Border-Crossing intrusion detection support;
 3. Panoramic stitching;
 4. Radar linkage;
 5. Auto-tracking support;
 6. Multi-scene group cruising support;
 7. 3D zooming/positioning selection;
- (The above functions need to be implemented in conjunction with general software and network modules)

Other Specifications

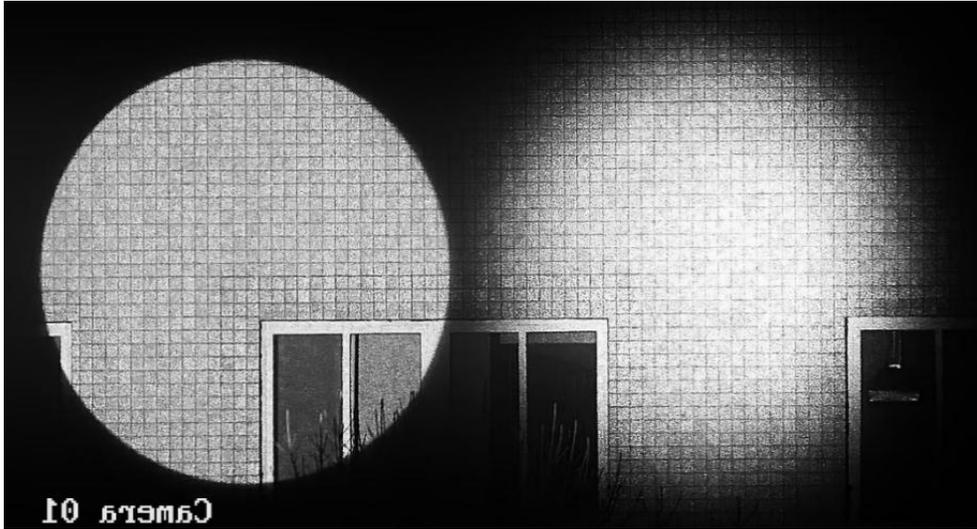
Protocol	<ol style="list-style-type: none"> 1. Network interface: RJ45. 10/100 Base-T adaptive (integrated video output and RS485 control) 2. Network protocol: TCP/IP, UDP, IPv4/v6; support HTTP, RTP, RTSP, NFS, DHCP, NTP, SMTP, SNMPv1/v2c/v3, UPNP, PPPoE, DNS, FTP; support PSIA, ONVIF2.0, GB28181 3. Support Onvif 2.0 a 4. Pelco-P、Pelco-D baud rate 2400、4800、9600、19200(optional) 5. Power supply: AC/DC24V, Anti-reverse connection protection 6. Interface: aviation waterproof connector.
Environmental index	<ol style="list-style-type: none"> 1. Working temperature: - 25 ~+60 (- 40 Optional); 2. Storage Temperature: -45 ~+70; 3. Humidity: <90%; 4. Seismic resistance: 0.2g (in accordance with GB/T15211-2013 5.4 harsh grade 2); 5. Impact resistance: 15g (in accordance with GB/T15211-2013

	<ol style="list-style-type: none"> 5.3 harsh grade 3); 6. Lightning protection: built-in surge protection interface circuit, 4000V power supply, 2000V signal; 7. Salt spray prevention: continuous spray for 96 hours at pH 6.5 to 7.2, no change in surface. 8. Protection Level: IP66
Total Weight	≤25kg (PT included)
Total Consumption	120W

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



Networked Intelligent Application



ArgusTec's laser effect

VS

other brands laser effect



Car window (tinted) see-through function

