



MISSION CATALOG · CB-000002

AGT-ZS20GIS-TRC6307C-2132 IR PTZ LONG RANGE THERMAL IMAGING CAMERA FOR BORDER DEFENSE

The AGT-ZS20GIS-TRC6307C-2132 is a ship-mounted multi-sensor PTZ camera integrating HD visible light, uncooled thermal imaging, laser lig...

Model AGT-ZS20GIS-TRC6307C-2132

KEY BENEFITS

- Integrates HD visible light camera, uncooled thermal camera, laser ranging finder, automatic tracking, gyro stabilization, intelligent analysis and precise electronic control
- Designed for shipboard video acquisition, sea surface warning, key target warning, radar linkage and long-distance detection
- All-weather, all-time, full-dimensional target discovery, positioning, tracking and identification
- Detection range to small ships and islands up to 8 km

DESCRIPTION

The AGT-ZS20GIS-TRC6307C-2132 is a ship-mounted multi-sensor PTZ camera system designed for long-range maritime surveillance and border defense. It combines a 2 MP HD visible-light camera with 8–320mm continuous zoom, a 640×512 VOx uncooled thermal imager with 25–75mm lens, 808nm laser lighting, two-axis gyro stabilization, automatic tracking and radar linkage to deliver all-weather, all-time target detection, positioning, tracking and identification. The ruggedized pan-tilt unit offers 360° continuous pan rotation, -45° to +90° tilt, speeds up to 80°/s and positioning accuracy down to 0.02°. It supports more than 255 presets, multiple scan modes, lens and angle data feedback, manual/radar/software tracking, and remote diagnostics. The system is housed in an IP67-rated enclosure with surge, salt-spray and shipboard vibration resistance, operating from -25°C to +60°C.

OVERVIEW

- Wide detection spectrum
- No-dead-angle detection and full-dimensional coverage
- High control precision
- Excellent tracking performance
- Good attitude stability
- High degree of intelligence
- Strong environmental adaptability

APPLICATIONS

- Ship/shipboard video collection
- Sea warning
- Important target alert
- Radar-photoelectric linkage

TECHNICAL SPECIFICATION

ENHANCEMENTS	
Motor protection	turntable blocking protection, high reliability
Fault detection	support power-on self-check, status query and fault code feedback
Upgrade and maintenance	remote restart, remote upgrade function, convenient system maintenance
INTERFACE	
Network interface	1 channel 10M / 100M adaptive Ethernet port (including thermal image + high-definition visible light + RS422 / 485 control)
Power source	1 way DC24V
Physical interface	china-grade aviation waterproof plug, protection grade IP67
Network protocol	support TCP / IP, UDP, IPv4 / v6, HTTP, RTP, RTSP; support Onvif, GB28181 network video protocol
PTZ control protocol	Pelco-D industry standard and other multi-protocols, baud rate 2400, 4800, 9600, 19200 optional, customizable private protocol
ENVIRONMENT	
Working temperature	-25 °C ~ + 60 °C
Storage temperature	-30 °C ~ + 70 °C
Humidity	<95% RH
Anti-lightning surge	power supply 4000V, communication video signal 2000V
Anti-salt spray	PH value
Vibration resistance	meets GJB150A.16 shipboard environmental requirements
Protection level	IP67
POWER	
Power supply	equipped with ultra-wide input power adapter, AC90V~305V to DC24V
Power consumption	The maximum power consumption of the turntable ≤250W, the stable power consumption ≤50W
Dimension	Φ280mm×430mm

TECHNICAL SPECIFICATION

POWER	
Weight	≤18kg
CAMERAS VISIBLE CAMERA	
Detector	1/3 "low illumination CMOS
Resolution	1920 × 1080 (2 million pixels)
Illumination	color
Lens focal length	8 ~ 320mm continuous zoom
Action distance	Under the conditions of atmospheric visibility greater than 10km, air humidity less than 50%, and background imperviousness, the action distance to small ships or islands and reefs can reach 8km.
Lens control	electric zoom, manual / auto focus
Interface and video format	IP network output, H.265 / H.264
UNCOOLED THERMAL CAMERA	
Detector	The fifth generation of VOx uncooled detector
Spectral range	8μm ~ 12μm
Resolution	640 × 512
Lens focal length	25 ~ 75mm, 8X electronic zoom, optical-electronic fusion relay zoom
Sensitivity	NETD is better than 40mk;
Focus control	electric zoom, manual / auto focus
Strong light protection	anti-sun burn function
Ranging ruler	adaptive optical zoom proportional zoom
Life index	recording function (cumulative working time, shutter times, limit temperature, environment
LASER	
Wavelength	808nm

TECHNICAL SPECIFICATION

LASER	
Power	5W
Laser lens	2 ° -30 °
Angle control	DSS digital step lighting angle control technology

COMMERCIAL TECHNICAL DATA

DATASHEET · EN

DOCUMENT CONTROL SHEET

ISSUING AUTHORITY

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