



MISSION CATALOG · CB-000007

AGT-ZS20GIS-RC2132 WEATHERPROOF OPTICAL PLATFORM THERMAL IMAGING CAMERA FOR AIRPORT

The AGT-ZS20GIS-RC2132 is a weatherproof, IP67-rated multi-sensor PTZ platform integrating HD visible, uncooled thermal, laser illuminati...

Model AGT-ZS20GIS-RC2132

KEY BENEFITS

- Integrates HD visible light, uncooled thermal, laser illumination, automatic tracking, gyro stabilization, intelligent analysis, and precise electronic control in one platform
- All-weather, all-time, full-dimensional target discovery, positioning, tracking, identification, and tracking
- Long-distance detection up to 8 km for small ships or islands
- No-dead-angle detection and full-dimensional coverage
- High control precision with up to 0.02° positioning accuracy
- Excellent tracking performance with radar linkage and automatic tracking options
- Good attitude stability via two-axis gyro stabilization
- Strong environmental adaptability with IP67 protection and marine-grade vibration resistance

Quoted & supported by Circuitbull® (Volls Global Inc)

DESCRIPTION

The AGT-ZS20GIS-RC2132 is a rugged, IP67-rated multi-sensor pan-tilt platform designed for continuous outdoor surveillance in demanding environments. It combines a 2 MP low-illumination visible camera with 8–320 mm continuous zoom, an uncooled thermal imager, 808 nm laser illumination, two-axis gyro stabilization, and precision servo drives to deliver detection ranges up to 8 km for small vessels or islands under favorable atmospheric conditions. The platform offers N×360° pan and -45° to +90° tilt with speeds up to 80°/s, positioning accuracy up to 0.02°, and 2 mrad RMS stability. Intelligent functions include manual and automatic tracking, radar linkage, preset cruise, line scan, watch functions, power-on self-check, remote upgrade, and multi-protocol network integration via 10M/100M Ethernet. It operates from -25 °C to +60 °C, withstands 96-hour salt spray, and meets GJB150A.16 shipboard vibration requirements.

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
- Airport / coastal perimeter surveillance

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
LASER	
Wavelength	808nm
Power	5W
Laser lens	2 ° -30 °
Angle control	DSS digital step lighting angle control technology

DOCUMENT CONTROL SHEET

ISSUING AUTHORITY	
ORGANIZATION	Volls Global Inc
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BRAND	Circuitbull®
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