



MISSION CATALOG · CB-000015

AGT-TC61023 DISTANCE HIGH SPEED THERMAL IMAGING CAMERA FOR BORDER SURVEILLANCE

The AGT-TC61023 is a long-range high-speed thermal imaging PTZ camera for 24-hour border surveillance, featuring a 640×512 VOx thermal se...

Model AGT-TC61023

KEY BENEFITS

- Long range 24-hour monitoring
- Delicate and smooth thermal images
- Convenient for installation and application
- 360° omni-directional pan-tilt
- Super-strong aluminum alloy with IP66 protection
- Higher sensitivity for low-contrast targets
- Effective operation in all environments
- Small size and low weight

DESCRIPTION

The AGT-TC61023 delivers continuous 24-hour thermal monitoring for long-range perimeter, border, and critical infrastructure protection. It combines a 5th-generation FPA VOx uncooled detector with SDE digital image processing, AGC, 2× digital amplification, and multiple pseudo-color palettes to produce smooth, high-sensitivity imagery in all lighting and weather conditions. The integrated 50 kg CNC PTZ provides 360° pan and ±45° tilt with speeds up to 30°/s pan and 15°/s tilt, 255 presets, and multiple cruising/scanning modes. Intelligent video analytics include cross-border/intrusion detection, target tracking, shot-point/fire detection, and a 255-level alarm threshold. The single-piece aluminum alloy housing is waterproof, dustproof, and rated IP66 for harsh outdoor environments.

OVERVIEW

- VOx uncooled detector with 640×512 pixel resolution (1280×1024 optional)
- NETD ≤ 50 mK (@25°C F1.0)
- SDE digital image processing with AGC and 2× digital amplification
- 10 pseudo-color modes plus B/W and B/W inverse
- Intelligent functions: cross-border/intrusion detection and target tracking
- 255-level alarm threshold configuration
- Advanced algorithm supports shot-point/fire detection and alert
- One-piece integral aluminum alloy housing, waterproof, IP66 weatherproof, anti-dust

APPLICATIONS

- Seaport and airport monitoring
- Water system monitoring
- Storage and warehouse monitoring
- Military base security monitoring
- Oilfield and oil depot security
- Fire source prevention and monitoring
- Ecological and environmental monitoring
- Border and coastal defense
- Urban security and anti-UAV applications
- Highway and railway monitoring

TECHNICAL SPECIFICATION

DETECTION	
Vehicle	17400 m
Human	6800 m
IDENTIFICATION	
Vehicle	4800 m
Human	1800 m
PTZ	
Load Capacity	50 kg
Construction	CNC PT
Pan Range	0~360°
Tilt Range	-45°~+45°
Pan Speed	0.01°~30°/s
Tilt Speed	0.01°/s~15°/s
Positioning Accuracy	±0.1°
Preset Count	255
Preset Features	support lens zooming and focusing preset
Cruising Lines	6
Apple-skin Scanning	1
Line-cruising	1
ENHANCEMENTS	
Image Processing	SDE digital image processing, AGC, 2X digital amplification
Color Modes	10 pseudo color and B/W, B/W inverse

TECHNICAL SPECIFICATION

ENHANCEMENTS	
Intelligent Functions	cross-border/intrusion detection and target tracking
Alarm Threshold Levels	255
Fire Detection	shot-point/fire detection and alert
NETWORK	
Transport Protocols	TCP/IP, UDP, IPv4/v6
Application Protocols	HTTP, RTP, RTSP, NFS, DHCP, NTP, SMTP, SNMPv1/v2c/v3, UPNP, PPPoE, DNS, FTP
Video Standards	PSIA, ONVIF2.0, GB28181
INTERFACE	
Ethernet	RJ45.10, 10/100 Base-T adaptive
Serial Interface	integrated video output RS422/485
ENVIRONMENT	
Operating Temperature	-25°C~+60°C
Optional Operating Temperature	-40°C
Storage Temperature	-45°C~70°C
IP Rating	IP66
POWER	
Consumption	180 W
Supply	AC/DC 24 V, anti-reverse connection protection
WEIGHT	
Total	≤ 35 kg (include PTZ)

COMMERCIAL TECHNICAL DATA

DATASHEET · EN

DOCUMENT CONTROL SHEET

ISSUING AUTHORITY

ORGANIZATION	Volls Global Inc
REGISTERED OFFICE	1207 Delaware Ave #5352
LOCALITY	Wilmington, DE 19806
COUNTRY	United States
POINT OF CONTACT	info@circuitbull.com
BRAND	Circuitbull®
PARENT ORGANIZATION	Volls Global · volls.us

MATRIX CODES · SCAN TO OPEN

01	02	03	04
			
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