



MISSION CATALOG · CB-000021

AGT-DMS10-4300-100 VEHICLE MOUNTED INTELLIGENT ALARMS THERMAL CAMERA

Long-range dual-spectrum PTZ thermal camera with 100mm lens, 384×288 VOx detector, 47× visible zoom, laser illuminator, fire detection, i...

Model AGT-DMS10-4300-100

KEY BENEFITS

- Long range 24-hour monitoring
- Delicate and smooth images
- 360° omni-directional pan-tilt
- Super-strong aluminum alloy, IP67 ingress protection
- Higher sensitivity
- Effective in all environments
- Lightweight design: weight ≤10kg

DESCRIPTION

The AGT-DMS10-4300-100 is a vehicle-mounted intelligent alarm thermal PTZ camera built for 24-hour long-range surveillance in demanding industrial environments. It combines a sixth-generation uncooled VOx thermal imager, a back-illuminated starlight visible camera, a laser illuminator, and integrated sound/light alarms to deliver continuous detection, recognition, fire-point alarming, and target tracking. With 360° continuous pan, $\pm 90^\circ$ tilt, IP67 protection, anti-salt-spray coating, and a lightweight aluminum housing, the unit is suitable for petrochemical plants, warehouses, mining, steel production, and perimeter security applications.

OVERVIEW

- Supports full-screen point, line, and surface accurate temperature measurement based on black-body radiation law calculation of front-end raw data per frame, with short response time, no delay, and remotely configurable alarm threshold and strategy.
- Pitch: -90° to $+90^\circ$, horizontal 360° continuous rotation, full coverage of 720° three-dimensional space.
- Horizontal: $0.01^\circ/\text{s}$ to $100^\circ/\text{s}$; pitch: $0.01^\circ/\text{s}$ to $80^\circ/\text{s}$, high-speed start/stop, focal speed adaptive, accurate target positioning.

APPLICATIONS

- Petrochemical and industrial manufacturing
- Warehousing and logistics
- Factory parks, coal mines, and steel plants
- Online temperature measurement detection and monitoring
- Security and fire warning of charging facilities

TECHNICAL SPECIFICATION

THERMAL	
NETD	40mK(@25°C F1.0)
Lens	100mm
Image Enhancement	SDE digital image enhancement technology, 255 levels adjustment
Pseudo-color Polarity	16 kinds, hot black/hot white
Image Parameters	AGC automatic gain control, brightness, contrast
Electronic Zoom	1.0~8.0× continuous zoom (step 0.1), global eagle eye diagram
Ranging Ruler	support
Dead Pixel Correction	support
Image Correction	manual correction, background correction, automatic correction time interval, adjustable Gamma correction parameters
Strong Light Protection	anti-sun damage
Non-uniformity Correction	automatic/hand
Temperature Measurement	full-screen point, line, surface accurate temperature measurement
VISIBLE	
Sensor Type	back-illuminated ultra-low illumination starlight CMOS
Minimum Illumination (Color)	0.0005Lux
Minimum Illumination (B/W)	0.0001Lux @ 0Lux(IRON)
Focal Length	7mm~330mm
Optical Zoom	47×
Digital Zoom	16×

TECHNICAL SPECIFICATION

VISIBLE	
Image Processing	white balance, electronic shutter, frame accumulation, backlight compensation, glare suppression, 2D/3D digital noise reduction, electronic anti-shake, wide dynamic
Day and Night Light	0.4-0.75μm visible + 0.8-0.95μm near-infrared independent double light window
Fog Penetration	electronic and optical
LASER	
Laser Homogenization	new infrared GHT-III HD flood light source, no scattered particles
Laser Angle	3°~65° switchable
Laser Distance	300m
PAN-TILT	
Pan Speed	0.01°/s~100°/s
Tilt Speed	0.01°/s~80°/s
Focal Speed Adaption	support
Pan Angle	360° continuous rotation
Tilt Angle	-90°~+90°
Preset Positions	3000
Cruise Routes	16
Cruise Route Presets	256
Watch Functions	preset bit, pattern scan, cruise scan, vertical scan, frame scan, panorama scan, apple skin scan, horizontal fan sweep line scan
3D Frame Selection Zoom	support
Orientation Information	angle query/real-time return/positioning, lens FOV return/positioning
Zero Point Correction	northward remote correction

TECHNICAL SPECIFICATION

HOUSING	
Design	quasi-spherical micro-rotary, integrated 5-window multi-channel
Material	fine cast high strength aluminium alloy
Window Glass	infrared/visible high efficiency optical glass, clean film coating
Surface Coating	PTA triple anti-corrosion coating
Wiper	intelligent automatic
Defrost	visible window
IP Rating	IP67
INTERFACE	
Ethernet Ports	1× RJ45
Alarm Inputs	2
Alarm Outputs	1
Audio Inputs	1
RS485 Interfaces	1
Development Interface	HP-SDK secondary development
Thermal Resolutions	1920×1080; 1280×1024; 1280×960; 1024×768; 1280×720; 704×576; 640×512; 640×480; 400×300; 384×288; 352×288; 352×240
Visible Resolutions	2592×1520; 2560×1440; 1920×1080; 1280×1024; 1280×960; 1024×768; 1280×720; 704×576; 640×512; 640×480; 400×300; 384×288; 352×288; 352×240
Video Encoding	H.265/H.264/MJPEG
Multi-stream	support
Video Bitrate	32Kbps~16Mbps

TECHNICAL SPECIFICATION

INTERFACE	
Audio Encoding	G.711A/G.711U/G726
Image Flip	left and right / up and down / diagonal
OSD Settings	channel name, time, gimbal orientation, field of view, focal length, preset bit name
NETWORK	
Network Protocols	HTTP, HTTPS, FTP, SMTP, DNS, NTP, RTSP, RTCP, RTP, TCP, UDP, ICMP, DHCP
Video Protocols	ONVIF, GB28181
ENHANCEMENTS	
Fire Detection Threshold	255 levels
Fire Target Count	1-16
Hot Spot Tracking	support
Intelligent Analysis	intrusion detection, boundary crossing detection, entering/leaving area detection, motion detection, wandering detection, people gathering, fast moving, target tracking, items left behind, items taken, people/vehicle target detection, face detection
Detection Areas	16
People/Vehicle Filter	support
Temperature Filter	support
Tracking Modes	single scene tracking, multi-scene tracking, panoramic tracking, alarm linkage tracking
AR Information Fusion	512
Information Fusion Types	fire point, intelligent analysis recording logo, orientation angle, field of view angle, focal length, multiplier
Image Fusion Modes	18
Picture-in-Picture	support
Alarm Capture and Upload	support

TECHNICAL SPECIFICATION

ENHANCEMENTS	
Passive Distance Measurement	support
Laser Distance Measurement	optional
Sound and Light Alarm	support
Alarm Sound Customization	support
Fire Fighting Linkage	support
Disconnection Alarm	support
IP Conflict Alarm	support
Illegal Access Alarm	support
SD Card Abnormal Alarm	support
Video Masking Alarm	support
Anti-sun Damage	support
Health Index Record	support
Life Management Parameters	working time, shutter count, working temperature, limit temperature, zoom lens motor time, head motor time
Disconnection Renewal	support
Power Failure Memory	support
Remote Maintenance	fault query, self-test, remote restart, online upgrade, remote upgrade
Key Frame Interval	100 levels adjustable
Configuration Import/Export	support

TECHNICAL SPECIFICATION

ENHANCEMENTS	
Web Access	support
Glare Protection	support
Temperature Correction	no thermal image design, imaging resolution not affected by temperature
Scene Modes	multiple configuration scenarios
Auto Focus Tuning	remote precision parameter adjustment
Day Cruise Presets	1-40
Night Cruise Presets	41-80
Day/Night Auto Switch	support according to photosensitive state
Lens Servo	lens preset position, focal length return, focus positioning
OSD Menu Remote	support
Embedded Remote Upgrade	support
Illegal Access Settings	number and lock time configurable
User Rights Levels	3 (administrator, operator, normal user)
Security Mode	authorized username/password, IP whitelist/blacklist, MAC whitelist/blacklist
Mis-login Lockout	support
POWER	
Working Voltage	DC 9~36V
Power Adapter	external AC220V or battery
CONSUMPTION	
Rated Power Consumption	≤40W

TECHNICAL SPECIFICATION

CONSUMPTION

Peak Power Consumption	≤60W
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ENVIRONMENT

Working Temperature	-40°C~60°C
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Working Humidity	≤95%
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Anti-salt Spray	no change after 96 hours at pH 6.5~7.2
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Anti-surge	6KV
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Anti-static Contact	8KV
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Anti-static Air	15KV
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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

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