



MISSION CATALOG · CB-000029

AGT-DTVC4300-30 HIGH SPEED INFRARED THERMAL IMAGING CAMERA

High-speed dual-spectrum PTZ thermal camera combining 336×256 uncooled LWIR and 2.1 MP visible imaging for long-range perimeter and airpo...

Model AGT-DTVC4300-30

KEY BENEFITS

- 5th generation uncooled infrared technology with high-sensitivity UFPA
- Premium thermal imaging with 50mk NETD sensitivity
- Miniaturized design with reduced weight and fast rotation
- Dual-spectrum monitoring with thermal and visible cameras
- Precise location, multiple presets, auto-focus, and auto-patrol
- User-friendly graphical UI menu
- SDE image detail enhancement with B/W and inverse color modes
- GSS heat dissipation system

DESCRIPTION

The AGT-DTVC4300-30 is a high-speed speed-dome thermal camera built on 5th-generation uncooled infrared technology and infrared optical imaging. It integrates a high-sensitivity 336×256 UFPA thermal sensor with a 2.1 megapixel visible CCD camera to deliver premium imaging in a compact, lightweight PTZ housing. The system supports precise positioning, auto-focus, multiple presets, and automated patrol modes for continuous monitoring of airports, highways, harbors, and other critical infrastructure. With 50mk thermal sensitivity, SDE image detail enhancement, GSS heat dissipation, and IP66-rated environmental protection, it performs reliably in severe weather and demanding outdoor conditions.

OVERVIEW

- Miniaturized CCD increases zooming speed and enables auto focus
- 50mk thermal sensitivity ensures premium image and reduces severe weather effects
- Unique AS optical design and high precision optomechanical design
- 5th generation miniaturized detection reduces cost and dimension while maintaining precision
- User-friendly graphical UI menu
- SDE image detail enhancement technology, no noise, B/W and B/W inverse color mode
- GSS heat dissipation system
- Multi-row bearing design extends service life
- Less than 0.01s alarm response ensures no omission
- Side dip switch for convenient address code and protocol setting
- Ingress protection: IP66; Lightning protection: TVS4000V

APPLICATIONS

- Expressway
- Railway
- Safe city
- Vehicle-mounted monitoring
- Harbor
- Airport
- Stadium
- Square
- Scenic spot

TECHNICAL SPECIFICATION

THERMAL	
F-number	F1.0
VISIBLE	
Resolution	2.1 mega pixels
Sensor Size	1/2.8" CCD
Min. Illumination	0.01lux
Day/Night Mode	Auto color to B/W at 0.01lux
Focal Length	4.7~141mm
Optical Zoom	30X
Focus	Auto focus
PTZ	
Pan Range	360° continuous
Tilt Range	-90°-5°
Pan Speed	0.01°~200°/s
Tilt Speed	0.01°~120°/s
Preset Call Speed	250°/s
Preset Count	255
Breakpoint Memory	Yes
Auto Mode	Preset, patrol, scanning, auto scanning, path, random scanning
Path Count	4
Auto Watch	Available

TECHNICAL SPECIFICATION

PTZ	
3D Positioning	3D positioning (click to zoom in)
Timing Start	Available
Compass	Automatic calculation of orientation
DETECTION	
Vehicle Detection	2800m
Human Detection	1200m
Vehicle Identification	870m
Human Identification	350m
INTERFACE	
Alarm Inputs	4
Alarm Outputs	2 (optional)
Protocol	Pelco-P/D and other mainstream protocols
Baud Rate	2400/4800/9600/19200 bps
Online Updating	Online updating through communication cable, low maintenance cost
Alarm Response Time	<0.01s
Side DIP Switch	Available
ENHANCEMENTS	
Image Enhancement	SDE image detail enhancement
Noise	No noise
Color Modes	B/W and B/W inverse color mode
Heat Dissipation	GSS heat dissipation system

TECHNICAL SPECIFICATION

ENHANCEMENTS	
Bearing Design	Multi-row bearing
Optical Design	AS optical design, high precision optomechanical design
ENVIRONMENT	
IP Rating	IP66
Surge Protection	TVS1500V anti-lighting and anti-surge
Lightning Protection	TVS4000V
Operating Temperature	-30~60°C
Operating Humidity	<90%RH non-condensing
POWER	
Voltage	DC12V
Current	4A
DIMENSIONS	
Diameter	230mm
Height	348mm
WEIGHT	
Weight	5kg

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

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