



MISSION CATALOG · CB-000016

AGT-KMS4300 DISTANCE INFRARED THERMAL IMAGING CAMERA

The AGT-KMS4300 is a dual-channel intelligent alarm thermal camera combining 5th-generation uncooled infrared and HD visible imaging for...

Model AGT-KMS4300

KEY BENEFITS

- Dual-channel hot spots intelligent alarm via integrated infrared and HD visible imaging
- Day-and-night surveillance with high-sensitivity 384×288 12μm uncooled FPA sensor
- Fine, smooth thermal images from advanced digital circuits and SDE image processing
- Full HD visible imaging in extremely low light with starlight CMOS and ICR day/night switching
- Flexible video output with H.265/H.264/MJPEG multi-stream encoding and 18 dual-light fusion methods

DESCRIPTION

The AGT-KMS4300 is a dual-channel hot spots intelligent alarm thermal camera built on 5th-generation uncooled infrared technology and full HD visible image technology. It integrates a high-sensitivity 384×288 resolution 12μm uncooled FPA thermal sensor with a built-in infrared lens, advanced digital circuits, and image processing algorithms to deliver fine, smooth thermal images. The visible channel uses a full high-definition color dual-mode low-illumination CMOS sensor with a compact day/night dual-use HD lens for reliable performance around the clock. Designed for critical infrastructure monitoring, the camera supports intelligent hot-spot detection and alarm, electronic zoom with global overview map and ranging ruler, and dual-light fusion across 18 methods. It offers H.265/H.264/MJPEG multi-stream encoding, flexible resolution outputs, and robust image correction features including dead pixel correction, background correction, and automatic/manual non-uniformity correction.

OVERVIEW

- Dual-channel thermal and visible-light imaging system for continuous day/night surveillance
- 5th-generation uncooled VOx thermal sensor with 384×288 resolution, 12μm pixel pitch, and 13mm athermal lens
- Full HD visible camera with 1/2.8 inch starlight CMOS, 5MP resolution, and ICR day/night switching
- H.265/H.264/MJPEG multi-stream video encoding with dual-light fusion, image flip, and wide dynamic range

APPLICATIONS

- Substations
- Chemical plants
- Railway stations
- Passenger stations
- Subway stations
- Airports

TECHNICAL SPECIFICATION

THERMAL	
Detail enhancement	Enhance details
Thermal enhancement adjustment	255-level thermal image enhancement adjustment
Pseudo color polarity	18 pseudo color and B/W, B/W conversion
AGC	AGC automatic gain control
Brightness	Brightness
Contrast	Contrast
Electronic zoom	1.0~8.0× continuous zoom (step length 0.1)
Global overview map	Support
Ranging ruler	Support
Dead pixel correction	Support
Manual correction	Support
Background correction	Support
Automatic correction interval	Support
Gamma correction	Adjustable
Strong light protection	Anti-sun damage
Non-uniformity correction	Automatic/Manual
LENS	
Thermal focal length	13mm
Thermal lens type	Athermal lens

TECHNICAL SPECIFICATION

LENS	
Visible focal length	8mm
VISIBLE	
Sensor size	1/2.8 inch
Sensor type	Starlight CMOS
ICR filter	Integrated ICR dual filter day and night switching
Effective pixels	5 Mega pixel
Resolution	2592×1944
Minimum illumination color	0.001Lux
Minimum illumination B/W	0.0001Lux
Minimum illumination IR	0Lux
Field of view	36°×20°
White balance	Support
Electronic shutter	Support
Frame accumulation	Support
Backlight compensation	Support
Strong light suppression	Support
Digital noise reduction	2D/3D
Electronic image stabilization	Support
Wide dynamic	Support

TECHNICAL SPECIFICATION

VISIBLE	
Anti-infrared overexposure	Support
Visible spectral window	0.4-0.75um
Near-infrared spectral window	0.8-0.95um
Day and night independent windows	Independent double light windows
DETECTION	
Vehicle range	600m
Human range	300m
Fire range	300m (@2×2m)
IDENTIFICATION	
Vehicle range	200m
Human range	100m
VIDEO	
Thermal image resolution	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 light resolution	2592×1944; 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
Multiple streams	Support
Video bit rate	32Kbps~16Mbps
Frame rate	60Hz 30 frames/sec
Image flip left/right	Support
Image flip up/down	Support
Image flip diagonal	Support

TECHNICAL SPECIFICATION

VIDEO	
Dual-light fusion	18 fusion methods
AUDIO	
Audio coding	G.711A/G.711U/G726

COMMERCIAL TECHNICAL DATA

DATASHEET · EN

DOCUMENT CONTROL SHEET

ISSUING AUTHORITY

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