



Specifications of Aaronia Thermal & Optical Bi-spectrum PTZ Camera

Thermal Module	Image Sensor	Vanadium Oxide Uncooled Focal Plane Arrays
	Resolution	640 x 512
	Pixel Intervall	17 μm
	Response Waveband	8 μm to 14 μm
	NETD (Noise Equivalent Temperature Difference)	$\leq 35 \text{ mK}$ (25 $^{\circ}\text{C}$, F# = 1.1)
	Focal Length	23 to 230 mm
	IFOV	0.74 to 0.07 mrad
	Field of View	26.61 $^{\circ}$ x 21.43 $^{\circ}$ (H x V) to 2.83 $^{\circ}$ x 2.27 $^{\circ}$ (H x V)
	Min. Focusing Distance	2 m
	Aperture	F0.9 to F1.5
	Focus Mode	Semi-auto, manual
	Digital Zoom	x2, x4, x8
Optical Module	Image Sensor	1/1.8" Progressive Scan CMOS
	Resolution	1920 x 1080
	Min. Illumination	Color : 0.005 Lux @ (F3.5, AGC ON) B/W : 0.0005 Lux @ (F3.5, AGC ON)
	Shutter Speed	1s to 1/30,000s
	Focal Length	16.7 to 1000 mm
	Aperture Range	F3.5 to F8.8
	Focus Mode	Auto / Semiautomatic / Manual
	WDR	120 dB
Optical Defog	Yes	



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Specifications

Smart function	VCA	Support 4 VCA rule types (Line Crossing, Intrusion, Region Entrance, and Region Exiting), 10 scenes and 8 VCA rules for each scene.
	Temperature Measurement	Support 3 temperature measurement rule types, 273 presets as scene, 21 rules of each scene (10 points, 10 areas, and 1 line)
	Temperature Range	-20 °C to 150 °C (-4 °C to 302 °F)
	Temperature accuracy	± 8 °C (14.4 °F)
	Fire Detection	Support 10 fire points
PTZ	Movement Range	Pan: 360° Continuous Rotate; Tilt: From -45 ° to + 45 ° (auto flip)
	Pan Speed	Configurable, From 0.01°/s to 40°/s
	Tilt Speed	Configurable, From 0.01°/s to 20°/s
	Proportional Zoom	Yes
	Presets	300
	Patrol Scan	8; Up to 32 Presets Per Patrol
	Pattern Scan	4; More Than 10 Minutes Per Pattern
	Power Off Memory	Yes
	Park	Preset/Pattern Scan/Patrol Scan/Auto Scan/Tilt Scan/Random Scan/Frame Scan/Panorama Scan
	PT Status	Turn On/Turn Off
	Scheduled Task	Preset/Pattern Scan/Patrol Scan/Auto Scan/Tilt Scan/Random Scan/Frame Scan/Panorama Scan/Doom Reboot/Doom Adjust/Aux Output
Network	Main Stream	Optical Light: 50Hz:25fps(1920×1080), 25fps(1280×960), 25fps(1280×720) Optical Light: 60Hz:30fps(1920×1080), 30fps(1280×960), 30fps(1280×720) Thermal: 50fps (640 × 512)
	Sub Stream	50Hz:25fps (704 × 576), 25fps (352 × 288), 25fps (176 × 144) 60Hz:30fps (704 × 480), 30fps (352 × 240), 30fps (176 × 120) Thermal: 50fps (640 × 512)
	Video Compression	H.265+/H.264+/H.265/H.264/MJPEG, H.264 encoding with Baseline/Main/High Profile
	Audio Compression	G.711u/G.711a/G.722.1/MP2L2/G.726/PCM
	Protocols	Pv4/IPv6, HTTP, HTTPS, 802.1x, Qos, FTP, SMTP, UPnP, SNMP, DNS, DDNS, NTP, RTSP, RTP, CP, RTP, TCP, UDP, IGMP, ICMP, DHCP, PPPoE, Bonjour
	Simultaneous Live View	Up to 20-ch
	User/Host Level	Up to 32 users, 3 levels: Administrator, Operator, User
	Security measures	User authentication (ID and PW), MAC address binding, HTTPS encryption, IEEE 802.1x access control, IP address filtering



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Integration	Alarm Input	Up to 7-ch Relay Input (0-5 V DC)
	Alarm Output	Up to 2-ch; Support Alarm Linkage
	Alarm Action	Preset/Patrol Scan/Pattern Scan/SD Card Record/Relay Output/Smart capture/FTP upload/Email linkage
	Audio Input	LINE_IN Input/MIC Input; Peak: From 2 to 2.4V[p-p] Output Impedance: 1K Ω \pm 10 %
	Audio Output	Linear Level; Impedance: 600 Ω
	Communication Interface	Built-in RJ45; 10M/100M Ethernet Interface
	Onboard Storage	Built-in Micro SD/SDHC/SDXC Card Slot, Up to 64GB; Support Manual/Alarm Recording
	Analog Video Output	1.0V [p-p]/75 Ω , PAL/NTSC/BNC
	RS485	Half-Duplex; PELCO-P and PELCO-D Self-adaptive
	API	Open-ended API, support ISAPI; Third-party Management Platform
	Client	iVMS-4200
	Web Browser	IE 7+, Chrome 18+, Firefox 5.0+, Safari 5.02+; Multiple Languages
General	Menu	English
	Wiper	Yes
	Power	48V DC/5A, 220 W
	Work Temperature	From -40°C to 60°C (-40°F to 140°F)
	Humidity	90% or Less
	Protection Level	IP66 Standard; TVS 6000V Lightning Protection, Surge Protection and Voltage Transient Protection
	Dimension	649.2 mm \times 438 mm \times 261.3 mm (25.56 " \times 17.24 " \times 10.29 ")
	Weight	Approx. 60kg (132.3 lb)



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