



Specifications of Aaronia long range camera

Thermal module	Image sensor	Vanadium oxide uncooled focal plane arrays
	Max. resolution	640 × 512
	Detector pitch	17 µm
	Response waveband	8 µm to 14 µm
	NETD	< 40 mk (@25° C, F#=1.0)
	Lens (focal length)	100 mm
	MRAD	0.17 mrad
	Field of view	6.23° × 4.98°
	Min. focusing distance	10 m
	F number	1.0
Optical camera	Image sensor	1 / 2.8" progressive scan CMOS
	Min. illumination	Color: 0.05 Lux @ (F1.8, AGC ON) B/W: 0.01 Lux @ (F1.8, AGC ON)
	Focal length	6.7 - 330 mm, 49 X
	Digital zoom	16 X
	Field of view	41.3° - 1.2° (Wide-tele)
	Min. working distance	10 - 1500 mm (Wide-tele)
	Aperture range	F1.8 - F6.1
	Focus mode	Auto / Semiautomatic / Manual
	WDR	Digital
	Shutter time	PAL: 1 - 1 / 30,000 s / NTSC: 1 - 1 / 30,000 s
	White balance	Auto / manual / ATW / indoor / outdoor / daylight lamp / sodium lamp
	Day & night	IR cut filter
	Privacy mask	24 privacy masks programmable; optional multiple colors and mosaics
	Optical defog	Yes
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 range	-20° C to 150° C (-40° F to 302° F)
	Temperature accuracy	± 8° C (14.4° F)



Gewerbegebiet Aaronia AG II, DE-54597 Strickscheid
 Tel.: +49(0)6556-9019-355 Fax: +49(0)6556-93034
 www.aaronia.com E-Mail: mail@aaronia.de



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PTZ	Movement range	Pan: 360° continuous rotate; tilt: from -90° to + 40° (auto flip)
	Pan speed	Configurable, from 0.1° /s to 110° /s
	Tilt speed	Configurable, from 0.1° /s to 50° /s
	Proportional zoom	Yes
	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
Infrared	IR distance	Up to 500 m
	IR intensity and angle	Auto adjust
Network	Main stream	Optical: 50 Hz : 25 fps (1920 × 1080), 25 fps (1280 × 960), 25 fps (1280 × 720) Optical: 60 Hz : 30 fps (1920 × 1080), 30 fps (1280 × 960), 30 fps (1280 × 720) Thermal: 50 fps (640 × 512)
	Sub stream	Optical: 50 Hz : 25 fps (704 × 576), 25 fps (352 × 288), 25 fps (176 × 144) Optical: 60 Hz : 30 fps (704 × 480), 30 fps (352 × 240), 30 fps (176 × 120) Thermal: 50 fps (640 × 512)
	Video compression	H.264 (baseline / main / high profile) / MJPEG / MPEG4
	Audio compression	G.711u / G.711a / G.722.1 / MP2L2 / G.726 / PCM
	Protocols	IPv4, IPv6, HTTP, HTTPS, 802.1x, Qos, FTP, SMTP, UPnP, SNMP, DNS, DDNS, NTP, RTSP, RTCP, RTP, TCP, UDP, IGMP, ICMP, DHCP, PPPoE, Bonjour
Integration	Audio input	LINE_IN input / MIC input; peak: from 2 to 2.4 V [p-p]; output impedance: 1K Ω ±10 %
	Audio output	Linear level; impedance: 600 Ω
	Communication interface	Built-in RJ45; 10 M / 100 M ethernet interface
	Onboard storage	Built-in micro SD / SDHC / SDXC card slot, up to 64 GB; support manual / alarm recording
	Analog video output	1.0 V [p-p] / 75 Ω, PAL / NTSC / BNC
General	Wiper	Yes
	Power	24 V AC, 120 W
	Work temperature / humidity	From -35° C to 60° C (-30° F to 140° F); humidity: 90 % or less
	Weight	Approx. 19 kg (41.89 lb)



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