



## Specifications of Aaronia long range camera

Camera	Image sensor	Visual	1/2,8" progressive scan CMOS	
		Thermal	Uncooled micro bolometer 640 x 480 pixels, Pixel size: 17 µm	
	Lens	Visual	4,4 – 128 mm, F1,6 – 4,7 Horizontal field of view: 65° – 2° Vertical field of view: 39° – 1,3° Autofocus, auto-iris	
		35 mm	Athermalized 35 mm, F1,2 Near focus distance: 33 m (108 ft) Horizontal field of view: 180° Vertical field of view: 130°	
		Zoom	Athermalized 35 – 105 mm, F1,6 Near focus distance: 22 – 194 m (72 – 630 ft) Near manual focus distance: 7 m (23 ft) Horizontal field of view: 18° – 6° Vertical field of view: 13,6° – 4,6°	
	Day and night	Visual	Automatically removable infrared-cut filter in night mode	
	Minimum illumination	Visual	Color: 0,2 lux at 30 IRE F1,6 B/W: 0,01 lux at 30 IRE F1,6 Color: 0,25 lux at 50 IRE F1,6 B/W: 0,02 lux at 50 IRE F1,6	
	Sensitivity	Thermal	NETD < 50 mK	
	Shutter time	Visual	Visual: 1/66500 s to 2 s	
	Pan / Tilt / Zoom	Pan: 360° endless, 0,05° – 120°/s Tilt: -90° to +45°, 0,05° – 65°/s Jerk-free movements at low speed: ±0,01°/s (at 0,05°/s) Preset accuracy: 0,05° 256 preset positions, guard tour, control queue, focus window, on-screen directional indicator, de-icing control, dynamic load balancing		
	Visual	30x optical zoom and 12x digital zoom, total 360x zoom, Focus recall		
	Zoom	3x thermal zoom and 4x digital zoom, total 12x zoom		
Video	Video compression	H.264 (MPEG-4 Part 10/AVC), Baseline, Main and High Profiles Motion JPEG		
	Resolution	Visual	1920 x 1080 (HDTV 1080 p) to 320 x 180	
		Thermal	Sensor is 640 x 480. Image can be scaled up to 800 x 600 (SVGA)	
	Frame rate	Visual	Up to 25/30 fps (50/60 Hz) in HDTV 1080 p	
		Thermal	Up to 8,3 fps and 30 fps	
Video streaming	Controllable frame rate and bandwidth VBR/MBR H.264 Multiple, individually configurable streams in H.264 and Motion JPEG			





	Image settings	Visual	Compression, color, brightness, sharpness, contrast, local contrast, white balance, exposure control, exposure zones, automatic backlight compensation, fine tuning of behavior at low light, 120 dB WDR - forensic capture, manual shutter time, text and image overlay, 20 individual 3D privacy masks
		Thermal	Compression, brightness, sharpness, contrast, local contrast, exposure control, exposure zones, text and image overlay
Network	Security	Password protection, IP address filtering, HTTPS encryption, network fail-over link, IEEE 802.1X network access control, digest authentication, user access log, centralized certificate management	
	Supported protocols	IPv4/v6, HTTP, HTTPS, SSL/TLS, QoS Layer 3 DiffServ, FTP, SFTP, CIFS/SMB, SMTP, Bonjour, UPnP, SNMP v1/v2c/v3 (MIB-II), DNS, DynDNS, NTP, RTSP, RTP, TCP, UDP, IGMP, RTCP, ICMP, DHCP, ARP, SOCKS, SSH, NTCIP	
General	Casing	IP66- and NEMA 4X-rated powder coated aluminum Color: white NCS S 1002-B Front window: Visual: Glass, Thermal: Germanium Long-life silicone wiper Weathershield: High-impact UV-stabilized thermoplastic	
	Sustainability	PVC free	
	Memory	512 MB RAM, 512 MB Flash	
	Power	24 V AC/DC, typical 16 W, max 204 W Power loss recovery TVS 2000V, surge protection, voltage transient protection I/O connector: output power 12 V DC, max load 50 mA	
	Connectors	SFP slot (SFP module not included) RJ45 10BASE-T/100BASE-TX/1000BASE-T network connector Power connector I/O connector: 6-pin terminal block with 4 configurable inputs/outputs	
	Operating conditions	-50 °C to 55 °C (-58 °F to 131 °F) Maximum (intermittent): 65 °C (149 °F) Arctic Temperature Control: start-up at -40 °C (-40 °F) Humidity: 10 - 100% RH (condensing) Wind load when PTZ operational 37 m/s (83 mph), 45 m/s (100 mph) without weathershield Maximum effective projected area (EPA): 0,138 m <sup>2</sup>	
	Storage conditions	-40 °C to 70 °C (-40 °F to 158 °F)	
	Approvals	EMC EN 55032 Class A, EN 55024, EN 61000-6-1, EN 61000-6-2, FCC Part 15 Subpart B Class A, VCCI Class A ITE, ICES-003 Class A, RCM AS/NZS CISPR 32 Class A, EN 50121-4, IEC 62236-4 Environment IEC/EN 60529 IP66, IEC 62262 IK10, NEMA 250 Type 4x, ISO 4892-2, IEC 60721-3-4 Safety IEC/EN/UL 60950-1, IEC/EN/UL 60950-2	
	Dimensions	245 x 360 x 582 mm (9½ x 14 x 23 in)	
	Weight	35 mm: 14,7 kg (32,4 lb) Zoom: 15,2 kg (33,5 lb)	



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