



Thermal Imaging Camera

- ★ CAM-XPLRTH Series PTZ Network Camera is a high-end combination of thermal camera with outstanding contrast for reliable detection and verification around-the-clock and in all weather and light conditions and an exceptionally light-sensitive day camera for identification purposes. Designed for continuous, jerk-free pan and tilt movements. Easy to control and install with one IP address and multiple mounting options. The camera offers a tilt view of 45° above the horizon, and when column-mounted, it enables 360° unobstructed field of view.
- ★ Built in high sensitivity infrared thermal imaging camera with large aperture lens, and ultralow illumination integrated HD IPC; all have been carried over a 360° medium-size omnidirectional PTZ platform; supports medium and long range fast search and monitoring.
- ★ Powerful embedded intelligent analysis algorithm makes motion detection, region intrusion detection, line crossing detection, moving path tracking, target enhancement and other intelligent analysis functions done in the device.
- ★ Leading thermal imaging procession algorithm: IDE(image details enhancement algorithm), HDR(high dynamic range algorithm: sea-sky mode, sky-earth mode).
- ★ Embedded high temperature alarm module, you accurately pre-alarm the fire source in time based on the leading temperature alarming algorithm, pre- alarming grades are adjustable, applicable for the need of fire pre-alarming in different scenes.
- ★ Applicable under extreme bad weather (including complete darkness, rain, snow, smog and etc).
- ★ Powered by complete functions and interfaces; standardized security interface design, supporting ONVIF and GB28281 protocol, easily access to the platform.
- ★ Impressive appearance, integrated structural design, easy for installation and maintenance.

APPLICATION SCENARIO

Applicable in scenarios where requires all-weather video surveillance, such as warehouse, urban community, airports, harbors, stations and so on; Also applicable in scenarios where needs fire pre-alarm, such as: oil fields, farms, forests, grasslands, scenic sights, etc.



TECHNICAL SPECIFICATIONS

MODEL	CAM-XPLRTH09M		CAM-XPLRTH13M		CAM-XPLRTH20M
DETECTOR CHARACTERISTIC					
Detector	Uncooled VOx Microbolometer				
Array forming / Pixel pitch	640x512/17μm				
Sensitivity	NETD ≤ 60mk				
Frame rate	50Hz				
Spectral range	8~14μm				
Color Palettes	Whitehot, Blackhot, Ironrow, Fusion, Rainbow, Globow.etc				
Focus	Continuous zoom				
Focus length	25-100 mm, F1.1	25-100 mm, F1.1	31-155 mm, F1.0	38-190 mm, F1.0	21-220 mm, F1.1
FOV	24.6°x18.5°~ 6.2°x4.7°	24.6°x18.5°~ 6.2°x4.7°	19.9°x15.0°~ 4.0°x3.0°	16.3°x12.3°~ 3.3°x2.5°	29.0°x22.0°~ 2.8°x2.1°
HUMAN					
Identification distance	360m	360m	570m	700m	820m
Recognition distance	730m	730m	1150m	1450m	1650m
Detection distance	2940m	2940m	4500m	5500m	6350m
VEHICLE					
Identification distance	1200m	1200m	1800m	2200m	2500m
Recognition distance	2300m	2300m	3500m	4200m	4800m
Detection distance	2800m	8800m	13200m	16400m	17400m
Digital zoom	1~8x continual zoom				
Thermal image algorithm	IDE, HDR				
Thermal image Intelligence function	Motion detection, Intrusion alarm, target enhancement, movement path				
High temperature alarm	High temperature tracking, Over-temperature alarm				
VISIBLE CAMERA					
Image Sensor	1/1.9" low illumination progressive scan CMOS				
Effective Pixels	1944(H)x1092(V)				
Electronic Shutter Speed	1/1 ~ 1/30,000s				
Min. Illumination	0.001Lux@F1.5(Color), 0.0001Lux@F1.5 (B/W)				
S/N Ratio	More than 55dB				
VISIBLE LENS					
Focal Length	8mm~250mm	8mm ~ 320mm	18mm ~ 550mm	30mm ~ 750mm F3.8	30mm ~ 750mm
Max Aperture	F1.6 ~ F4.5	F1.6~F4.5	F3.8	F3.8	F3.8
Angle of View	H: 41.5° ~ 2.0°	H:41.5°~ 1.1°	H:23.5°~ 1.0°	H:28.5°~ 0.5°	H:28.5°~ 0.5°
Optical Zoom	32x	40x	30x	25x	25x
Focus Control	Auto / Manual				
Close Focus Distance	100mm~ 1000mm (0.33ft~3.28ft)				

PTZ	
Pan / Tilt Range	Pan: 0° ~ 360° endless;Tilt: -45° ~ 60°(-60° ~ 60° optional)
Manual Control Speed	Pan: 0.01° ~12° /s; Tilt: 0.01° ~9° /s
Preset Speed	Pan: 0.01° ~12° /s ;Tilt: 0.01° ~9° /s
Preset	128
PTZ Mode	5 Auto Scan, 8 Tour, 5 Pattern, Auto Pan
Speed Setup	Human-oriented focal length/ speed adaptation
Power up Action	Auto restore to previous PTZ and lens status after power failure
Idle Motion	Activate Preset/ Scan/ Tour/ Pattern if there is no command in the specified period
Protocol	Pelco-P/D (Auto recognition)
VIDEO	
Compression	H.264 / MJPEG
Frame Rate	Main Stream: Thermal: 1280x1024(default) / 720P @1~25/30fps Visible: 1080P(default) /720P @1~25/30fps Sub Stream: Thermal: 640x512(default) / 320x256 @1~25/30fps Visible: CIF(default) / D1 @1~25/30fps
Bit Rate Control	CBR / VBR
Bit Rate	H.264: 640 ~8192Kbps
Day/Night	Auto(ICR) / Color / B/W
BLC Mode	BLC / HLC / WDR
White Balance	Auto / ATW / Indoor / Outdoor / Manual
Noise Reduction	3D DNR
Motion Detetion	Off / On (4 zone, Rectangle)
Defog	Off / On
Flip	180°
Mirror	Off / On
AUDIO (Optional)	
Compression	G.711A / G.711Mu / AAC
NETWORK	
Ethernet	RJ-45 (10/100Base-T)
Protocol	IPv4/IPv6, HTTP, HTTPS, SSL, TCP/IP, UDP, UPnP, ICMP, IGMP, SNMP, RTSP, RTP, SMTP, NTP, DHCP, DNS, PPPOE, DDNS, FTP, IP Filter, QoS, Bonjour, 802.1x
Interoperability	ONVIF, GB28181, PSIA, CGI
Streaming Method	Unicast / Multicast
Max. User Access	10 Users / 20 Users
Edge Storage	Micro SD (128GB) (Optional) Memory status display (Normal / Error / Active / Formatting / Lock), NAS (Network Attached Storage), Local PC for instant recording
Web Viewer	Supports preview by IE explorer
Management Software	SNVR
CERTIFICATIONS BY NAB LAB	
Safety Protection- IEC/EN 60950/ IS 13252, Ingress Protection- IEC/EN 60529/ IS,60529 Environment Protection (Dry Cold Test/Dry Heat Test/Thermal Shock Test/ Damp Heat Test) - IEC/EN 60068/ IS 9000 CE, FCC, ISO 9001:2015, ROHS.	

INTERFACE	
Video Interface (Optional)	1.0Vp-p/75Ω, PAL / NTSC
Audio Interface (Optional)	Input/Output 1 Input / 1 Output
RS485	Support
Alarm	2/2 In/Out
ELECTRICAL	
Power Supply	24V AC
Power Consumption	Max. 100W
ENVIRONMENTAL	
Operating Condition	-30°C ~ +55°C / (-40°C ~ +70°C optional) / Less than 95% RH
Storage Conditions	- 40°C ~ +70°C / Less than 95% RH
Ingress Protection	IP66
CONSTRUCTION	
Casing	Metal
Dimensions	640mm x 400mm x 612mm (25.2"x 15.7" x 24.1")
Net Weight	50Kg (110.2 lb)
Gross Weight	68Kg (149.9 lb)

*Design and specifications are subject to change without notice