NETVISION360 SECURITY GROUP

Netvision Thermal 360 + High Definition PTZ Camera

The Netvision Hydra camera system combines the 360 degree thermal camera with a high definition PTZ camera.

The 360 thermal camera continuously scans the area to detect thermal signatures, once something is detected, the advanced analytics system analyzes the event and then cues the HD PTZ camera to zoom in on the target for close up forensic identification.

This system will integrate with your existing infrastructure and Video Management Systems.

Thermal 360 Specifications

Thermal Module	
Type	FLIR Tau 2 sun-safe amorphous silicon microbolometer
FPA Resolution	640×512
Image Bit Depth	12-bit raw
Lens Focal Length	19mm

Speed and Resolution	
Rotation Speed	10-60 RPM – Configurable
Image FOV (H)	360 Degrees - continuous
Image FOV(V)	26°
Image Resolution	Configurable from .77 MP to 5.24 MP
Power Requirements	
Input Voltage	20V-57 VDC. Polarity Insensitive
Power Source	POE, POE+ IEEE 802.3at, 802.3af
Processor and Analytics	
Processor	1GHz ARM Cortex A8 Plus C84x+ DSP
Embedded Analytics (TR)	Intrusion, Classification, Temperature
Embedded Analytics (PTZ)	Tracking
Detection Zones	Configurable Areas of Interest and Exclusions
Event Storage	8/16 GB SLC extended temp MicroSD Card (Included)
Detection Range	
Man	Up to 500 m
Vehicle	Up to 1,500 m
Fire	Up to 5 Km
Communication	
Ethernet	10/100 BaseT with PoE/PoE + Power (IPv4, IPv6)
Wi-Fi	802. I I b/g with Internal or External Antenna
Network Protocols	Zero conf System with Multicast DNS/DNS·SD Service Discovery, Supports DHCP, RTP, NTP, TCP/IP, UDP/IP
GSM Modem	6 band, HSPA+,quad band GSM, GPRS/EDGE 800/850/900/1700/1900/2100 MHz, SIM card
Environmental	
Operating Temperature Range	-40° C to +65° C
Storage Temperature Range	-40° C to +85° C
Humidity	5 – 95%. Non-Condensing
Protection Standard	IP66

Visual Light PTZ Specifications

Visual Camera Module (PTZ)	
Visual Sensor Type	Sony Exmore 1080p CMOS
Effective Pixels	1920 x 1080
Lens	Optical 20x zoom, Digital 12x zoom
Image FoV (H)	56.56°(Wide) ~ 3.10°(Tele)
Image FoV (V)	43.32°(Wide) ~ 2.34°(Tele)
Minimum Illumination Color	1.5Lux(50 IRE) / 0.02 Lux (Sens-up)
Minimum Illumination B/W	0.1Lux (50 IRE) / .001Lux (Sens-up)
Video (PTZ)	
Compression Format	H.264, MJPEG (up to 30fps@1080p)
Number of Streams	Dual Stream, Configurable
Resolution	1920x1080, 1280x720, 800x540, 480x270
Burnt-in Text (Digital)	Video stream overlay text
Inputs/Outputs (PTZ)	
Audio Connection	3.5mm stereo jack for speaker and microphone
Audio Input	1 Channel
Audio Output	1 Channel
Audio Compression Format	G.711
Digital Input	1 Channel, 0VDC minimum to 5VDC maximum, Max 10mA
Digital Output	1 Channel, Max 30VDC/2A, 125VAC/0.5A, and 250VAC/0.25A
Storage	MicroSD/SDHC) Slot (MicroSD Card Not Included)
Communication (PTZ)	
RS-485/422	Supported
Network	10/100 Base-T(IPv4, IPv6)
Protocol	QoS Layer 3 DiffServ, TCP/IP, UDP/IP, HTTP, HTTPS, RTSP, RTCP, RTP/UDP, RTP/TCP, mDNS, UPnP™, SMTP, DHCP, DNS, DynDNS, NTP, SNMPv1/v2c/v3 (MIB-II), IGMP, ICMP

Video Content Analysis (PTZ) optional	
High Performance	Advance tracking Algorithm, Low false alarm rate
Detection Zones	Configurable detection area
On-Screen Display	Real Time Display of Tracking Data and events
Tamper Detection	Allows Camera tampering detection
Environmental (PTZ)	
Fan/Heater	Fan and Heater
Operating Temperature	AC24V: -40˚C to 50˚C PoE+: 0˚C to 50˚C
Lowest Temperature	for device's start-up" DC12V: -20˚C PoE: 0˚C
Operating Humidity	Up to 85% RH Environmental
Power Requirements (PTZ)	
Power Source	AC 24V ±10%, PoE+ (IEEE802.3at)
Input Voltage	AC 24V or POE+ (xx-xx VDC)
Power Consumption	Max. 44W @ AC 24V (Heater ON)

Full Hydra Unit

Physical	
Material	Aluminum and Poly Carbonate
Weight	17.3 lbs
Dimensions	20"(h) x 20" (l) x 9" (w)
Environmental	
Operating Temp Range	If PTZ is powered with 24VAC: -40˚C to 50˚C If PTZ is powered with POE+: 0˚C to 50˚C
Operating Humidity	Up to 85% RH

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