

- 1/2.8" progressive scan CMOS
- Up to 1920x1080 resolution
- Mini illumination:
 - Color: 0.005 lux @ (F1.6 AGC ON)
 - B/W: 0.001 lux@ (F1.6 AGC ON)
 - 0 Lux with IR
- 25x optical zoom, 16x digital zoom
- 120 dB WDR, 3D DNR, Smart IR
- Up to 150m IR distance
- Smart H.265/H.264 video compression
- 0.5Tops Deep-learning Engine
- Smart tracking of human/vehicle
- Smart detection and perimeter protection
- IP66, -30°C-60°C, Aluminum Alloy & Plastic
- PoE+ (802.3.at, class 3) and DC24V/AC24V
- ONVIF, API and SDK



Module	System	Hi3516CV500, 8Gb LPDDR3, 2Gb SPI Flash
	Image sensor	1/2.8" progressive scan CMOS (SONY IMX462)
	Mini. Illumination	Color 0.005Lux @ (F1.65 AGC ON) B/W 0.001Lux @ (F1.65 AGC ON); 0Lux with IR
	Shutter Speed	1/1 s - 1/10,000 s
	White Balance	Auto/Manual/Indoor/Outdoor
	Gain	Auto/Manual
	Day & Night	IR Cut filter
	Digital Zoom	16x
	Privacy Mask	4 Programmable privacy masks
	3D DNR	Auto/Manual
	BLC & HLC	Yes
	WDR	120 dB
	Defog	Electronic
	EIS	Yes
Picture overlay	Logo picture could be overlaid on video with 128x128 pixels, 24 bits BMP format	
Lens	Focus length / Aperture Range	f=4.8-120mm lens, 25x optical zoom / F1.65 - F3.8 (wide-tele)
	Zoom Speed	Approx. 3.6s (optical zoom, wide-tele)
	Field of View	H: 57.6° to 2.5° (wide-tele); V: 34.4° to 1.4°; Diagonal: 64.5° to 2.9°
	Working distance	wide: 1.0m - INF; tele: 1.5m - INF
PTZ	Pan Range / speed	360° endless / Configurable, from 0.1-80°/s; Preset speed: 150°/s
	Tilt Range / Speed	From -3° to 90° / Configurable, from 0.1° - 80°/s; Preset speed: 120°/s
	Proportional Zoom	Yes
	Preset	360
	Cruise	8 cruises, up to 16 presets for each cruise
	Track	4 tracks, record time over 3 minutes for each track
	Power off memory	Support

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PTZ	Action mode	Preset/Cruise/Trace/Auto Scan/Random Scan
	3D Positioning	Support
	PTZ Position Display	Support
	Schedule Task	Preset/Cruise/Trace/Random Scan/Boundary Scanning /Dome reboot
IR	IR Distance	150m (492 f.t.)
	Smart IR	Yes, support facial exposure
Network	Max Resolution	1920×1080
	Main stream	1920×1080,1280×960,1280×720 (25/30fps)
	Sub stream	25fps (704 × 576, 640 × 480, 352 × 288) / 30fps (704 × 480, 640 × 480, 352 × 240)
	Third Stream	25fps (1920 × 1080, 1280 × 960, 1280 × 720, 704 × 576, 640 × 480, 352 × 288) 30fps (1920 × 1080, 1280 × 960, 1280 × 720, 704 × 480, 640 × 480, 352 × 240)
	SVC	Yes
	Video compression	Smart H.265+/H.265/H.264/MJPEG
	Audio compression	G.711 A/U
	Protocols	HTTP, HTTPS, IPv4/IPv6, 802.1x, QoS, FTP, SMTP, UPnP, SNMP,DNS, DDNS, NTP, RTSP, RTCP, RTP, TCP/IP, UDP,IGMP, ICMP,DHCP, PPPoE
	Simultaneous live view	Up to 6 channels
	User / Host	Up to 16 users, 3 levels: Administrator, Advanced User and Normal User
	Security Measures	User authentication (ID and PW), Host authentication (MAC address); HTTPS encryption, IEEE802.1x port-based network access control; IP address filtering
Smart Features	Basic event	Motion detection, video tampering alarm, exception (network disconnected, IP address conflict, SD full, SD error) , defocus detection
	Face Recognize/Compare	Default off, max 15 human faces per second.
	Smart Detection	Intrusion detection, Line crossing detection, Region entrance detection, Region exiting detection, Unattended baggage detection, Object removal detection, Scene change detection, Support alarm triggering by human or vehicle, filtering flag/animal.
	Smart Tracking	Manual Tracking, Auto Tracking (human or vehicle by software setting)
System Integration	Alarm Interface	1 Alarm input;1 Alarm output
	Audio Interface	1 audio input(mic in); 1 audio output, line level, impedance,600Ω
	Alarm Linkage	Alarm actions, such as Preset, Cruise, Track, Memory Card Video Record, Trigger Recording, Notify Surveillance Center, Upload to FTP/Memory Card, Send Email, etc.
	Network Interface	1 RJ45 10M/100M Adaptive Ethernet (Support PoE 802.3.at,class 3)
	SD Card Slot	One MicroSD/SDHC/SDXC card slot, up to 256G
	API	ONVIF, support TVT SDK and third-party management platform
	Client	TVT N9000 1.4.5, TVT NVMS 2.0; and the third-party client
	Web Browser	IE8-11, Chrome41.0-44, Firefox30.0-51, Safari8.0-11
General	Power	DC24V,AC24V or PoE+ (802.3.at, class 3), (Max 30W, include IR, Heater, Fan working, max 9W for IR)
	Working condition	-30°C - 60°C (-22°F - 140°F),90%RH less (non -condensing),Cold start at - 25°C
	Storage condition	-40°C - 65°C ; ≤ 95% RH
	Protection	IP66, 6000V Lightning Protection, Surge Protection and Voltage Transient Protection
	Material	Aluminum Alloy + Plastic
	Dimensions / Weight	209mm × 328mm (8.22" × 12.91") / 3.7 Kg
	Certification	IP66,ROHS,CE,FC

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