

Network

TNO-X6320E1WT1-M

Explosion-proof Zoom Camera

Key Features

- 1080p @ 60fps
- 32x optical zoom with auto focus
- Multiple streaming
- Intelligent video analytics, Wiper
- Wide Dynamic Range (150dB)
- Built-in dual micro SD/SDHC/SDXC memory slots
- 24VAC Power

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Explosion-proof Zoom Camera



Specifications

Video

Imaging Device	Size	1/2.8"
	Type	CMOS
Resolution		1920x1080, 1280x1024, 1280x960, 1280x720, 1024x768, 800x600, 800x448, 720x576, 720x480, 640x480, 640x360, 320x240
Max. Framerate	H.265/H.264	60fps/50fps(60Hz/50Hz)
	MJPEG	30fps
Min. Illumination (Lux)	Color(1/30sec, 30IRE)	0.05
	BW(1/30sec, 30IRE)	0.005

Lens

Focal Length (mm)		4.44~142.6
Zoom Ratio	Optical	32x
	Digital	32x
Max Aperture Ratio (F number)	Wide	1.6
	Tele	4.4
Angular Field of View	Horizontal	61.8°~2.19°
	Vertical	36.2˚~1.24˚
Min. Object Distance		1.5m (4.92ft)
Focus Control		Auto, Manual, Oneshot AF
Lens Type		DC auto iris
Mount Type		Board-in Type

Operational

Day & Night	Auto(ICR)
Backlight Compensation	BLC, HLC, WDR
Wide Dynamic Range (dB)	150
Digital Noise Reduction	SSNR V
Digital Image Stabilization	Support(built-in gyro sensor)
Defog	Support

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Operational

Motion Detection	Quantity	8ea
	Shape	8point Polygonal zones
Privacy Masking	Quantity	24ea
	Shape	Rectangular zones
	Color / Option	Gray, Green, Red, Blue, Black, White, Mosaic
Gain Control		Low, Middle, High, Off
White Balance		ATW, AWC, Manual, Indoor, Outdoor, Mercury, Sodium
Electronic Shutter	Mode	Minimum, Maximum, Anti flicker
	Speed Range	1~1/12,000sec
Video Rotation		Flip, Mirror
Alarm Triggers		Analytics, Network disconnect
Alarm Events When Alarm Trigger Occurred		File upload(video clip): FTP/SFTP, Notification: e-mail, Recording: SD/SDHC/SDXC or NAS recording at event triggers, Handover: PTZ preset,send message by HTTP/HTTPS/TCP
Water Removal		Support(with Wiper)

Analytics

Analytics Events	Normal	Motion detection, Tampering, Fog detection, Face detection, Shock detection, Virtual area(Lotering, Intrusion, Enter/Exit, Appear/Disappear), Virtual line(Crossing, Direction)

Network

Ethernet		RJ-45(10/100BASE-T)
Video Compression		H.265: Main, H.264: Main/Baseline/High,MJPEG
Smart Codec		Manual, WiseStream II
Bitrate Control		H.265/H.264: CBR or VBR, MJPEG: VBR
Streaming	Unicast	Up to 20 users
	Multicast	Support
	Multiple Streaming	Up to 10 profiles
Protocol		IPv4, IPv6, TCP/IP, UDP/IP, RTP(UDP), RTP(TCP), RTCP, RTSP, NTP, HTTP, HTTPS, SSL/TLS, DHCP, FTP, SMTP, ICMP, IGMPv2, SNMPv1/v2c/v3(MIB-2), ARP, DNS, DDNS, QoS, UPnP, Bonjour, LLDP, PPPoE, PIM-SM
Application Programming Interface	ONVIF	S, G, T
	Others	SUNAPI(HTTP API), Hanwha Vision Open Platform

Security

User authentication	Digest authentication
Network authentication	IEEE 802.1X(EAP-TLS, EAP-LEAP)
Access Control	IP-based access control
Audit	Access / System / Event Log management

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General

Memory	RAM	1GB
	Flash	256MB
Edge Storage	Micro SD/SDHC/SDXC	Max. 256GB x 2slot(Total 512GB)

Environmental & Electrical

Operating Condition	Temperature	-40°C~+60°C(-40°F~+140°F)
	Humidity	0~90% RH(non-condensing)
Storage Condition	Temperature	-50°C~+60°C(-58°F~+140°F)
	Humidity	0~90% RH(non-condensing)
Input Voltage		24VAC
Power Consumption	24VAC	Max. 37W

Mechanical

Color	Silver
Material	Stainless(STS316L)
Product Dimensions	176x154x480mm(6.93x6.06x18.90")
Product Weight	15Kg (33.1lb)

Certifications & Standards

Environment	IEC 60529 IP66, IEC 60529 IP67, INMETRO, cLCus C1/D1, cLC CSA

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Compatible Devices



HT-E-XWP10UL



HT-E-BFP00SW



HT-E-BFW320SW

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