

Network

TNO-X6072EPT1-Z

Explosion-proof VF Camera

Key Features

- 1080p @ 60fps
- 2.8-9mm lens
- H. 265, H.264, MJPEG codec support, Multiple streaming
- Intelligent video analytics
- WiseStream II
- Wide Dynamic Range (150dB)
- DIS with Built-in Gyro sensor
- Built-in dual micro SD/SDHC/SDXC memory slots
- PoE Power
- Hazardous Rated for Class I II III Division 1 Groups B, C, D, E, F, G cFMus Approved and II 2 G Ex db IIB+H2 II 2 D Ex tb IIIC IECEX ATEX certified
- Powder-coated aluminum housing
- Optional wall mount required

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Explosion-proof VF 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)	0.01
	BW(1/30sec, 30IRE)	0.001
Video Out		CVBS: 1.0 Vp-p / 75Ω composite for installation, USB: Micro USB Type B. Preview and installation ONLY. Requires WiFi dongle.

Lens

Focal Length (mm)		2.8~9
Zoom Ratio	Optical	3.2x
Angular Field of View	Horizontal	98° ~ 39°
	Vertical	55° ~ 22°
Focus Control		Simple focus, Manual
Lens Type		DC auto iris, P iris(IR corrected), Manual
Mount Type		C mount, CS mount
Optional Lens		SLA-M2890DN, SLA-M2890PN

Operational

Day & Night		Auto(ICR)
Backlight Compensation		BLC, HLC, WDR, SSDR
Wide Dynamic Range (dB)		150
Digital Noise Reduction		SSNR V
Digital Image Stabilization		Support(built-in gyro sensor)
Defog		Support
Motion Detection	Quantity	8ea
	Shape	8point Polygonal zones

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Operational

Privacy Masking	Quantity	32ea
	Shape	Polygonal zones
	Color / Option	Gray, Green, Red, Blue, Black, White, Mosaic
Gain Control		Low, Middle, High, Off, Manual
White Balance		ATW, AWC, Manual, Indoor, Outdoor, Mercury, Sodium
LDC		Support
Electronic Shutter	Mode	Minimum, Maximum, Anti flicker
	Speed Range	2~1/12,000sec
Video Rotation		Flip, Mirror, Hallway view(90°/270°)
Serial Interface		RS-485(Samsung-T, Pelco-D/P, Panasonic, Bosch, AD, GE, Vicon, Honeywell)
Alarm Interface	In/Out	Input 1ea, Output 1ea
Alarm Triggers		Analytics, Network disconnect, Alarm input
Alarm Events When Alarm Trigger Occurred		File upload(image): e-mail/FTP, Notification: e-mail, Recording: SD/SDHC/SDXC or NAS recording at event triggers,Alarm output, Handover: PTZ preset
Audio In		Selectable(mic in/line in), Built-in mic
Audio Out		Line out

Analytics

Analytics Events	Normal	Defocus detection, Motion detection, Tampering, Fog detection, Face detection, Audio detection, Sound classification, 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
Audio Compression		G.711 u-law /G.726 selectable,G.726(ADPCM) 8kHz,G.711 8kHz, G.726: 16kbps,24kbps,32kbps,40kbps, AAC-LC: 48kbps at 16kHz
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, PPPoE, PIM-SM
Application Programming Interface	ONVIF	S, G
	Others	SUNAPI(HTTP API), Hanwha Vision Open Platform

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Network

Direct Cloud Connection	Optional (needs gateway)

Security

OS / Firmware Protect	Encrypted firmware, Secure boot, Signed firmware
User authentication	Digest authentication
Network authentication	IEEE 802.1X(EAP-TLS, EAP-LEAP)
Secure Communication	HTTPS
Access Control	IP-based access control
Data Protect	Encryption credentials, Encrypt compress for live recording file export
Audit	Access / System / Event Log management
Device ID	Device certificate(Hanwha Vision Root CA)
Secure Storage	SDcard partition encrypt(AES-256)

General

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

Environmental & Electrical

Operating Condition	Temperature	-10°C~+55°C(+14°F~+131°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		PoE(IEEE802.3af, Class3), 12VDC
Power Consumption	PoE	Max. 7.5W
	12VDC	Max.25W

Mechanical

Color	Orange
Material	Aluminum
RAL Code	RAL2000-Yellow Orange
Product Dimensions	182.9X151.6x351.8 (7.2x5.97x13.85")
Product Weight	6.35kg (14lb)

Certifications & Standards

Environment	IEC 60529 IP66, NEMA 250 type 4X

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Compatible Devices



HT-F1XX-WM



HT-SF-FP



HT-SPMA-SD



HT-SD-CM

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