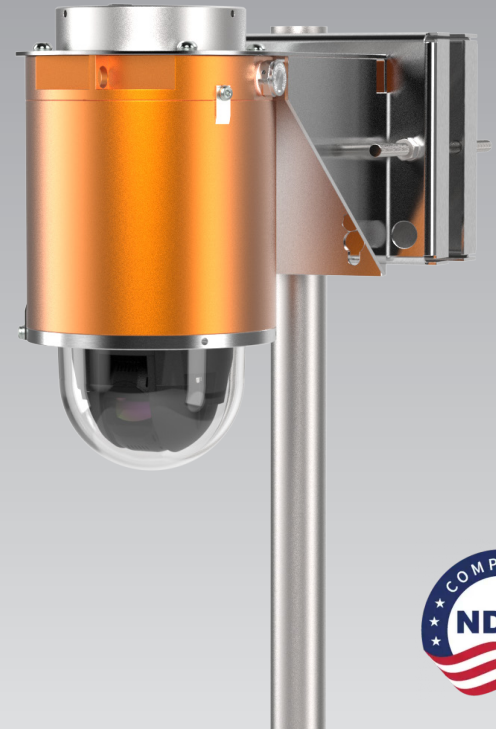


TNP-XC6403EPT3-Z

Explosion-Proof 2MP 40x AI PTZ Dome Camera

Key Features

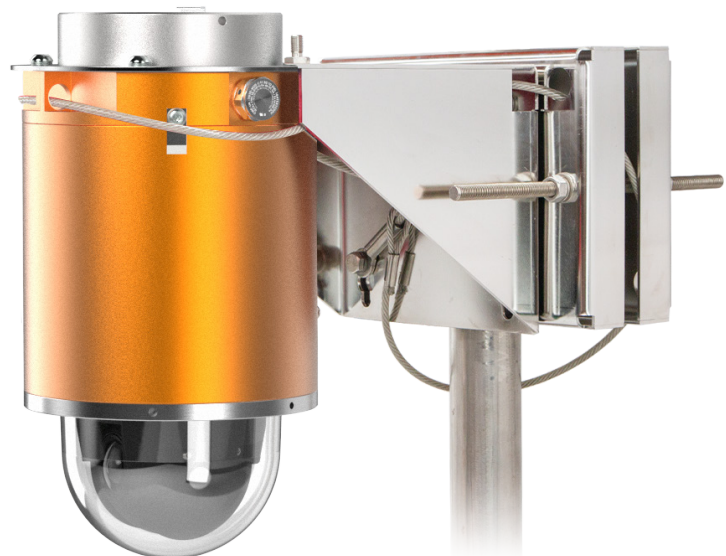
- 2 MP image resolution
- 40x optical zoom - 32x digital zoom
- H.265, H.264, MJPEG codec, WiseStream II
- Intelligent Analytics
 - Object auto tracking (person/vehicle)
 - Target lock tracking
- IP66, IK10
- PTZ PLUS Design applied (Compact, Lightweight, Simple Cabling)
- Hazardous Rated for:
 - Class I, Div 1 Groups B, C, D
 - Class II/III, Div 1, Groups E, F, G
 - cFMus Approved
 - Class I, Zone 1, AEx/Ex db IIB+H2
 - Zone 21, AEx/Ex tb IIIC
 - IECEX, ATEX, UKCA and INMETRO
- Operating Temperature: -20°C to +55°C



Description

Hanwha TNP-XC6403EPT3-Z explosion-proof 2MP AI PTZ network camera delivers excellent video and images in all conditions and is enclosed in a signature orange anodized aluminum explosion-proof housing, it's certified (cFMus, ATEX, IECEX, UKCA and INMETRO) for use in potentially combustible environments. It features a patented design which includes a uniform constructed enclosure consisting of an integrated termination box manufactured directly into the camera housing.

HT-SD-FP
Protection Cable
supplied with
camera unit



Specifications

TNP-XC6403EPT3-Z

Video

Imaging Device	1/2.8" CMOS
Resolution	1920 x 1080, 1280 x 1024, 1280 x 960, 1280 x 720, 1024 x 768, 800 x 600, 800 x 448, 720 x 576, 720 x 480, 640 x 480, 640 x 360, 320 x 240
Maximum Framerate	H.265 / H.264 : Max 60fps/50fps (60Hz/50Hz) MJPEG : Max 30fps/25fps (60Hz/50Hz)
Minimum Illumination	Color : 0.05 Lux (F1.6, 1/30 sec) B/W : 0.005 Lux (F1.6, 1/30 sec)

Lens

Focal Length (Zoom Ratio)	4.25 ~ 170mm (Optical 40x) (Digital 32x)
Maximum Aperture Ratio	F1.6 (Wide) / F4.95 (Tele)
Angular Field of View	H : 65.66° (Wide) ~ 1.88° (Tele) V : 39.4° (Wide) ~ 1.09° (Tele)
Minimum Object Distance	5m (16.4ft)
Focus Control	One shot AF, Focus save
Lens / Mount Type	DC Auto Iris

Pan/tilt/rotate

Pan / Tilt Range	360° Endless / 110° (90° ~ -20°)
Pan / Tilt Speed	Max 700°/sec, Manual : 0.024°/sec ~ 250°/sec
Sequence	Preset (300ea), Swing, Group (6ea), Trace, Tour, Auto run, Schedule
Preset Accuracy / Azimuth	Up to ±0.1°, Pan/Tilt correction

Operational

Camera title	Displayed up to 85 characters
Direction Indicator	Support
Day & Night	Auto (ICR)
Backlight Compensation	BLC / HLC / WDR / SDDR
Wide Dynamic Range	Extreme WDR (150dB)
Contrast Enhancement	SSDR (Off / On)
Digital Noise Reduction	WiseNR II (Based on AI engine), SSNR V
Digital Image Stabilization	Support (Built-in Gyro sensor)
Defog	Support
Motion Detection	8ea, 8point polygonal zones)
Privacy Masking	32ea, 4point Quadrangle zones - Color: Gray / Green / Red / Blue / Black / White - Mosaic
Gain Control	Off / Max gain / Manual
White Balance	ATW / NarrowATW / AWC / Manual / Indoor / Outdoor / Mercury / Sodium
Electronic Shutter Speed	Minimum / Maximum / Anti flicker (2 ~ 1/12,000sec) Preferred shutter control (Based on AI engine)
Digital Zoom	40x
Video Rotation	Flip & Mirror
Analytics	Classified object type : Person / Face / Vehicle / Licence Plate Attributes : Vehicle (Type : car / bus / truck / motorcycle / bicycle) Support Detection Shot Analytics events based on AI engine - Object Detection, Virtual line (Crossing / Direction). Virtual area (Loitering / Intrusion / Enter / Exit). Motion Detection - Tampering, Fog Detection, Shock Detection, Virtual area (Appear / Disappear) * Audio detection Sound classification (Via optional I/O box SPM-4210)
Alarm Triggers	Analytics, Network disconnect, Alarm input (Via optional I/O box SPM-4210), Time schedule, MQTT subscription

Alarm Events

When alarm trigger occurred

- File upload (image) : email / FTP / SFTP
- File upload (video clip) : FTP / SFTP
- Notification : email
- Recording : SD / SDHC / SDXC or NAS recording at event triggers
- Handover : PTZ preset, send message by HTTP / HTTPS / TCP
- Audio clip playback
- MQTT : publication
- * Alarm output / Audio clip playback (Via optional I/O box SPM-4210)

Water Removal	Support (Spin dry, Lens heater)
Auto Tracking	Support Object auto tracking (Person / Vehicle) Target lock tracking

Network

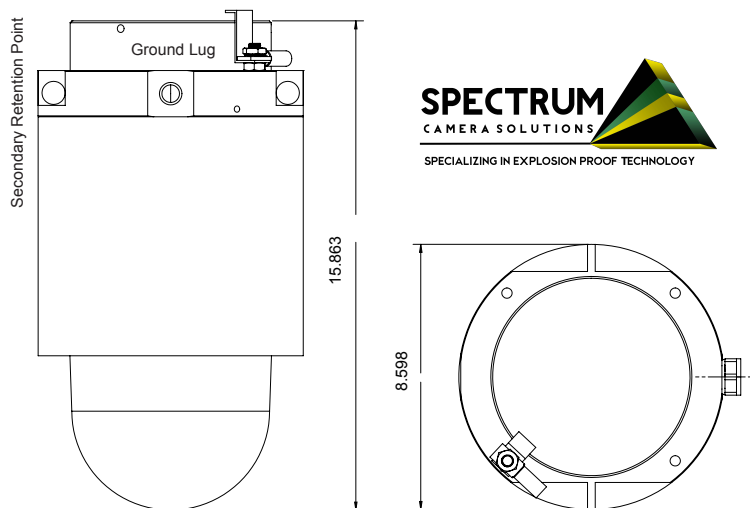
Ethernet	Metal shielded RJ-45 (10/100 BASE-T)
Video Compression Format	H.265 / H.264 : Main / /Baseline / High, MJPEG
Smart Codec	Manual mode (5ea area), WiseStream II, WiseStream III (based on AI engine)
Video Quality Adjustment	H.265 / H.264 / MJPEG : Target bitrate level control
Bitrate Control Method	H.265 / H.264 : CBR or VBR, MJPEG : VBR
Streaming Capability	Unicast (20 users) / Multicast (128 users) 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/SFTP, SMTP, ICMP, IGMP, SNMPv1/v2c/v3(MIB-2), ARP, DNS, DDNS, QoS, UPnP, Bonjour, LLDP, CDP, SRTP(TCP, UDP Unicast), NTCIP1205, MQTT
Application Programming Interface	ONVIF Profile S / G / T / M SUNAPI (HTTPS AI) Hanwha Vision Open Platform Oncloud edge recording, compatible with Hanwha Vision's Micro SD cards up to 1 TB

Security

OS / Firmware Protect	Encrypted Firmware, Secure boot, Signed Firmware
User authentication	Digest Authentication, Prevent brute-force attacks
Network authentication	IEEE 802.1X (EAP-TLS, EAP-LEAP, EAP-PEAP, MSCHAPv2)
Secure Communication	HTTPS, WSS (WebSocket Secure), SRTP
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	TPM (Trusted platform module), SD card partition encrypt (AES-256)
Security Certificate	TPM with FIPS 140-2 level 2

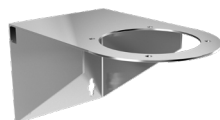
General	
Part number	TNP-C6403EPT3-Z
Input Voltage	PoE+ (IEEE802.3at, Class 4)
Power Consumption	Typical 24W, Max 25.5W
Webpage Language	English, Korean, Chinese, French, Italian, Spanish, German, Japanese, Russian, Portuguese, Czech, Polish, Turkish, Dutch, Hungarian, Greek
Edge Storage	Micro SD / SDHC / SDXC 2slot 1TB (512GB x 2)
Memory	4GM RAM, 512MB Flash
Storage Temperature / Humidity	-50°C ~ +60°C (-58°F ~ +140°F) / Less than 90% RH
Operational Temperature	See Figure 1.
Casing	Aluminum
Weight	28 lbs (12.8 kg)

Dimensions



Accessories (Optional)

HT-SD-WM



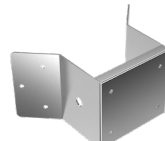
Wall Mount Bracket

HT-SPMA-SD



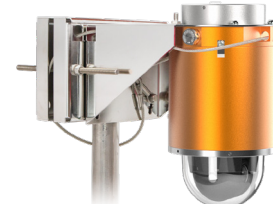
Pole Mount Bracket

HT-SD-CM



Corner Mount Bracket

HT-SD-FP



Protection Cable
(supplied with camera unit)

Figure 1.

CERT NO. FM17US0156X
 INPUT: IEEE802.3at; 25.5W
 MODEL NUMBER: D203-A-XNP-C6403-BD
 SERIAL:

SPECIALIZING IN EXPLOSION PROOF TECHNOLOGY
 8935 ALMEDA GENOA RD. HOUSTON, TEXAS 77075 USA

8935 ALMEDA GENOA RD.
 HOUSTON, TEXAS 77075
 USA

Class I Division 1 Groups B,C,D T6, Type 4X, IP66
Class II/III, Division 1, Groups E,F,G T6

-WARNINGS: Ta = -20°C to +55°C
-NOT INCLUDING KETONE OR ESTER ATMOSPHERES
-CONDUIT ENTRIES ARE M20 X 1.5
-DO NOT OPEN WHEN AN EXPLOSIVE ATMOSPHERE MAY BE PRESENT
-INSTALL SEAL AT ENCLOSURE ENTRY

US Patent 9917428
US Patent D858611

SPECIALIZING IN EXPLOSION PROOF TECHNOLOGY
 8935 ALMEDA GENOA RD. HOUSTON, TEXAS 77075 USA

MADE IN USA
 CERT NO. FM17US0156X
 FM18CA0103X

2809
 1725

MODEL: D203-A-XNP-C6403-BD
INPUT: IEEE802.3at; 25.5W
SERIAL:

Class I, Zone 1, AEx/Ex db IIB+H2 T6 Gb Ta = -20°C to +55°C, Type 4X, IP66
Zone 21, AEx/Ex tb IIIC T85°C Db Ta = -20°C to +55°C, Type 4X, IP66
II 2 G Ex db IIB+H2 T6 Gb Ta = -20°C to +55°C, IP66
II 2 D Ex tb IIIC T85°C Db Ta = -20°C to +55°C, IP66

CERT NO. FM18ATEX0057X, IECEx FMG 18.0020X, FM22UKEX0028X
WARNING: DO NOT OPEN WHEN ENERGIZED OR WHEN AN EXPLOSIVE ATMOSPHERE MAY BE PRESENT
INSTALL SEAL AT ENCLOSURE ENTRY
www.spectrumcamera.com
US Patent 9917428
US Patent D858611

SPECIALIZING IN EXPLOSION PROOF TECHNOLOGY
 8935 ALMEDA GENOA RD. HOUSTON, TEXAS 77075 USA
 No. SERIE: TIME-DY-MN-YEAR

NCC 20.0083 X
 Ex db IIB+H2 T6 Gb Ta = -20°C to +55°C
 Ex tb IIIC T85°C Db Ta = -20°C to +55°C
 IP66

FABRICADO NO EUA
 CERT NO. NCC 20.0083 X
 MODELO: D203-A-XNP-C6403-BD
 ALIMENTAÇÃO: IEEE802.3at; 25.5W

ATENÇÃO:
- ENTRADAS DE CABOS M20 X 1.5
- NÃO ABRA ENQUANTO UMA ATMOSFERA EXPLOSIVA PUDE ESTAR PRESENTE
- INSTALAR ANEL DE VEDAÇÃO NAS ENTRADAS
- NÃO ABRIR QUANDO ENERGIZADO
- RISCO POTENCIAL DE CARGA ELETROSTÁTICA - VER INSTRUÇÕES

-Patente EUA 9917428
-Patente EUA D858611