



Explosion Proof Network

TNO-X6323EPT1-Z

2MP Network Explosion Proof Zoom Camera



Key Features

- 2MP (1920 x 1080) resolution
- 4.44 - 142.6mm lens (32x Optical Zoom)
- H.265, H.264, MJPEG codec support
- Multiple streaming, WiseStreamII support
- Day & Night (ICR), WDR (120dB)
- DIS with Built-in Gyro sensor
- SD Memory slots (Maximum 256GB)
- 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 certifie
- Powder-coated aluminum housing

Cameras are supplied with the accessories shown below



HT-F2XX-GM
General Mount



HT-SF-FP
Protection Cable
supplied with
camera unit



HT-F2XX-TO
Protective Lens
Film

Accessories (Optional)

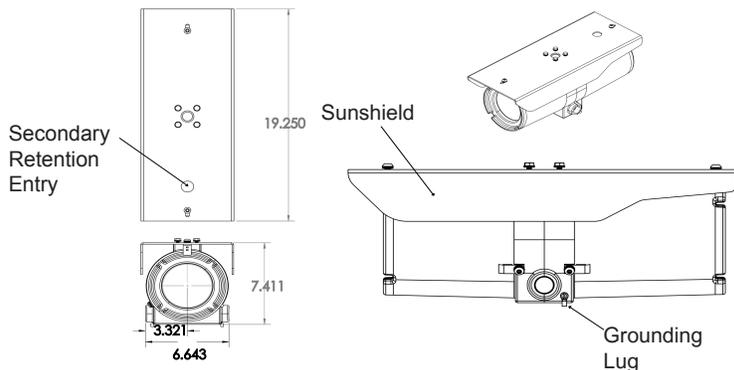


F2XX-WM
Wall Mount Bracket



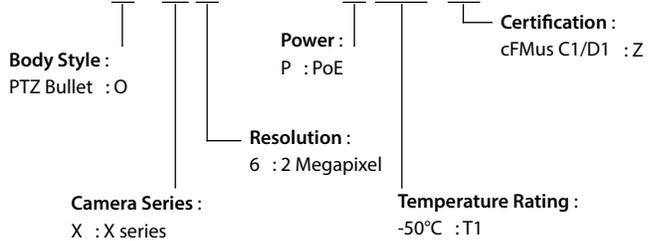
F2XX-PM
Pole Mount Bracket

Dimensions



Model Number

TNO-X6323EPT1-Z



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Specifications

VIDEO	
Imaging Device	1/2.8"2MPCMOS
Total Pixels	1,981(H)x 1,288(V)2.55MP
Effective Pixels	1,944(H)x 1,212(V)2.35MP
Scanning System	ProgressiveScan
Minimum Illumination	Color: 0.05Lux(1/30sec, F1.6), B/W: 0.005Lux(1/30sec, F1.6)
S/N Ratio	50dB
Video Out	CVBS: 1.0Vpp / 75Ω composite, 720x 480, for installation, USB: Micro USB Type B, 1280x720 for installation
LENS	
Focus Control	Auto / Manual / One Shot AF
Lens Type	DC auto Iris, Board in-type
Focal Length / Angular FoV	4.4 ~ 142.6mm (Optical 32x), H: 61.8° (Wide) ~ 2.19° (Tele) / V: 36.2° (Wide) ~ 1.24° (Tele)
OPERATIONAL	
Camera Title	Off/On (Displayed up to 85 characters)- English/ Numeric/ International characters/ Special characters- Common: Multi-line (Max.5), Color (Grey/ Green/ Red/ Blue/ Black/ White), Transparency Auto scale by resolution
Day & Night	Auto (ICR)/ Color/ B/W/ External/ Schedule
Backlight Compensation	Off/ BLC/ HLC (Masking/ Dimming), WDR
Wide Dynamic Range (WDR)	150dB
Contrast Enhancement	SSDR (Off/ On)
Digital Noise Reduction	SSNRV (2D + 3D noise filter) (Off/ On)
Digital Image Stabilization	Off/ On (Built-in Gyro sensor)
Defog	Off/ Auto (Input from fog detection)/ Manual
Motion Detection	Off/ On (8ea, 8 point polygonal zones), Handover
Privacy Masking	Off/ On (32ea, Polygonal)- Color: Grey/ Green/ Red/ Blue/ Black/ White, Mosaic
Gain Control	Off/ Low/ Middle/ High/ Manual
White Balance	ATW/ AWC/ Manual/ Indoor/ Outdoor (Included mercury & sodium)
Contrast	Level adjustment
LDC (Lens Distortion Correction)	Off/ On (5 levels with minimum/ maximum)
Electronic Shutter Speed	Minimum/ Maximum/ Antiflicker (2 ~ 1/12,000sec)
Digital PTZ	24x, Digital PTZ (Preset, Group)
Flip / Mirror	Off/ On, Hallway view: 90° / 270°
Video & Audio Analytics	Tampering, Loitering, Directional detection, Defocus detection, Fog detection, Virtual line, Enter / Exit, (Dis) Appear, Audio detection, Face detection, Motion detection, Digital auto tracking, Sound classification
Alarm I/O	Input 1ea / Output 1ea
Remote Control Interface	RS-485
RS-485 Protocol	Samsung-T/E, Pelco-P/D, Sungjin, Panasonic, Honeywell, AD, Vicon, GE, Bosch
Alarm Triggers	Alarm input, Motion detection, Video & Audio analytics, Network disconnect
Alarm Events	File upload via FTP and E-Mail, Notification via E-Mail, Local storage (SD/SDHC/SDXC) or NAS recording at alarm triggers, External output, DPTZ preset
Pixel Counter	Support

NETWORK	
Ethernet	RJ-45 (10/100BASE-T)
Video Compression Format	H.265 / H.264(MPEG-4part 10/AVC):Main / Baseline / High,MJPEG
Resolution	1920x 1080,1280x 1024,1280x 960,1280x 720,1024x 768,800x 600,800x 448,720x 576,720x 480,640x 480,640x 360,320x 240
Maximum Framerate	H.264 / H.265 : Max.60fpsat all resolutions, MJPEG : Max.30fps
Smart Codec	Manualmode (Area-based:5ea)
WiseStream II	Support
Video Quality Adjustment	H.265 / H.264 : Targetbitratelevel control, MJPEG : Targetbitratelevel control
Bitrate Control Method	H.265 / H.264 : CBRor VBR, MJPEG : VBR
Streaming Capability	MultipleStreaming(Up to 10 profiles)
Audio In	Selectable(Micorphonein / Line in),Maximumoutputlevel:1 Vrms Supplyvoltage:2.5VDC (4mA),Inputimpedance:approx.2K Ohm
Audio Out	Lineout,Maximumoutputlevel:1Vrms
Audio Compression Format	G.711 u-law/G.726selectable,G.726 (ADPCM)8KHz,G.711 8KHz G.726: 16Kbps,24Kbps,32Kbps,40Kbps,AAC-LC: 48Kbpsat 8/16/32/48KHz
Audio Communication	Bi-directional(2-way)
IP	IPv4,IPv6
Protocol	TCP/IP,UDP/IP,RTP(UDP),RTP(TCP),RTCP,RTSP,NTP,HTTP,HTTPS,SSL/TLS,DHCP,PPPoE,FTP,SMTP,ICMP,IGMP,SNMPv1/v2c/v3(MB-2),ARP, DNS,DDNS,QoS,PIM-SM,UPnP,Bonjour
Security	HTTPS(SSL)login authentication,Digest login authentication IP addressfiltering,User access log,802.1X authentication(EAP-TLS,EAP-LEAP)
Streaming Method	Unicast/ Multicast
Maximum User Access	20 usersat unicastmode
Edge Storage	SD/SDHC/SDXC2 slots(Up to 512GB)- Continuousrecording(1st slot to 2nd slot)NAS (NetworkAttachedStorage), LocalPC for instantrecording
Application Programming Interface	ONVIFProfiles/G,SUNAPI(HTTPAPI),WisenetOpen Platform
Webpage Language	English,Korean,Chinese,French,Italian,Spanish,German,Japanese,Russian,Swedish,Portuguese,Czech,Polish,Turkish, Dutch,Hungarian,Greek
Web Viewer	Supported OS : Windows7, 8.1, 10, Mac OS X 10.10,10.11,10.12 Plugin-Free Webviewer - Supported Browser : Google Chrome 54, MS Edge 38, MozillaFirefox(49Windows64bitonly),MS InternetExplorer11, Apple Safari9 *MacOS X only
Central Management Software	WisenetWAVE,SmartViewer,SSM
ENVIRONMENTAL	
Operating Temperature PoE only	-50°C ~ +55°C (-58°F ~ +131°F)
Storage Temperature / Humidity	-50°C ~ +60°C (-58°F ~ +140°F) / Less than 90%RH
Ingress Protection	Type 4x / IP66
ELECTRICAL	
Input Voltage	Camera : PoE (IEEE 802.3bt)
Power Consumption	Camera with heaters on : Maximum 90W (PoE) Camera only : 6.8W
MECHANICAL	
Color / Material	RAL2000-Yellow Orange / Powder-coated Aluminum
Dimensions (WxHxD)	19.25(L) x 7.41(H) x 6.64(W) in (498 x 188 x 163 mm)
Weight	27 - 29 lbs (12.2 - 13.2 kgs)