PTZIP778NW-X25IR

Platinum 8 MP 25× IR Network Speed Dome

The LTS PTZIP778NW-X25IR 8 MP 25x IR Network Speed Dome adopts 1/1.8" progressive scan CMOS chip. With its 25x optical zoom lens, the camera offers more details over expansive areas.

This camera can be used for rivers, roads, railways, airports, squares, parks, scenic spots, venues, etc.

LTS MD2.0 technology brings human and vehicle target classification alarms video surveillance devices. The system focuses on human and vehicle targets, vastly improving alarm efficiency and effectiveness.

- 1/1.8" progressive scan CMOS
- High quality imaging with 8 MP resolution
- Excellent low-light performance
- Active Deterrence: The white flashing light and audible warning can be triggered by certain events
- 25x optical zoom and 16x digital zoom
- Expansive night view with up to 655 ft (200 m) IR distance
- Focuses on human and vehicle target classification
- Face capture: Up to 5 faces captured at the same time

Detection, Observation, Recognition, Identification

The DORI distance gives the general idea of the camera's ability to distinguish persons or objects within the field of view.

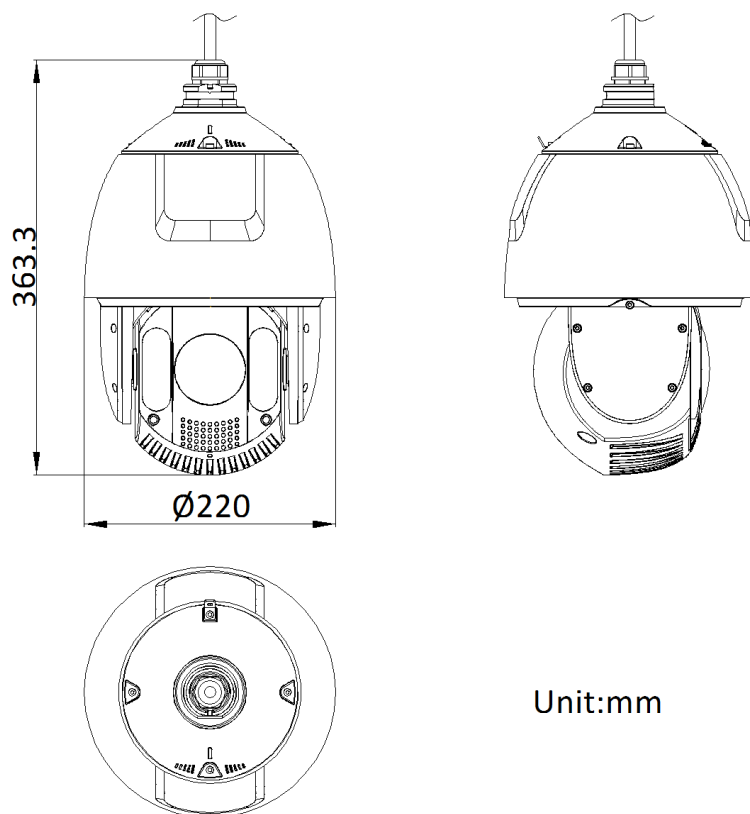| DORI	Detect	Observe	Recognize	Identify
Definition	25 px/m	63 px/m	125 px/m	250 px/m
Distance (Tele)	6,715.5 ft (2,046.9 m)	2,665.0 ft (812.3 m)	1,343.2 ft (409.4 m)	671.6 ft (204.7 m)

Specifications

Camera	
Max. Resolution	3840 × 2160
Image Sensor	1/1.8" progressive scan CMOS
Min. Illumination	Color: 0.005 Lux @ (F1.5, AGC on), B&W: 0.001 Lux @ (F1.5, AGC on), 0 Lux with IR
Shutter Speed	1/1 to 1/30000 sec.
Slow Shutter	Yes
Day & Night	IR cut filter
Zoom	25x optical, 16x digital
Lens	
Focal Length	5.9 to 147.5 mm
Zoom Speed	Approx. 4.8 sec.
Field of View	Horizontal: 50.8° to 2.6° (wide-tele)
	Vertical: 29.4° to 1.5° (wide-tele)
	Diagonal: 57.4° to 3° (wide-tele)
Aperture	Max. F1.5
Focus	Auto, semi-auto, manual, rapid focus
Illuminator	
Supplemental Light Range	IR Distance: up to 655 ft (200 m)
Supplemental Light Type	IR
Functionality	
Movement Range (Pan)	360°
Movement Range (Tilt)	-15° to 90° (auto flip)
Pan Speed	Pan speed: Configurable from 0.1° to 160°/sec.; preset speed: 240°/sec.
Tilt Speed	Tilt speed: Configurable from 0.1° to 120°/sec., preset speed 200°/sec.
Proportional Pan	Yes
Presets	300
Patrol Scan	8 patrols, up to 32 presets for each patrol
Pattern Scan	4 pattern scans
Power-off Memory	Yes
Park Action	Preset, pattern scan, auto scan, tilt scan, random scan, frame scan, panorama scan
3D Positioning	Yes
PTZ Status Display	Yes
Preset Freezing	Yes
Scheduled Task	Preset, pattern scan, patrol scan, auto scan, tilt scan, random scan, frame scan, panorama scan, dome reboot, dome adjust, aux output
Video	
Main Stream	24 fps (3840 × 2160, 2560 × 1440, 1920 × 1080, 1280 × 960, 1280 × 720)
Sub-Stream	24 fps (704 × 480, 640 × 480, 352 × 240)

Third Stream	24 fps (1920 × 1080, 1280 × 960, 1280 × 720, 704 × 480, 640 × 480, 352 × 240)
Video Compression	Main stream: H.264 / H.264+ / H.265 / H.265+ Sub-stream: MJPEG / H.264 / H.265 Third stream: MJPEG / H.264 / H.265
Video Bit Rate	32 Kbps to 16.3 Mbps
H.264 Type	Baseline Profile / Main Profile / High Profile
H.265 Type	Main Profile
Scalable Video Coding (SVC)	H.264 and H.265 encoding
Region of Interest (ROI)	8 fixed regions for each stream
Audio	
Audio Compression	G.711 alaw, G.711 ulaw, G.722.1, G.726, MP2L2, AAC, PCM
Audio Bit Rate	64 Kbps (G.711) / 16 Kbps (G.722.1) / 16 Kbps (G.726) / 32 - 192 Kbps (MP2L2) / 16 - 64 Kbps (AAC)
Audio Sampling Rate	8 / 16 / 32 / 48 kHz
Environment Noise Filtering	Yes
Network	
Network Storage	NAS (NFS, SMB/CIFS), auto network replenishment (ANR)
Protocols	IPv4/IPv6, HTTP, HTTPS, 802.1x, QoS, FTP, SMTP, UPnP, SNMP, DNS, DDNS, NTP, RTSP, RTCP, RTP, TCP/IP, UDP, IGMP, ICMP, DHCP, PPPoE, Bonjour, Websocket, Websockets
API	ONVIF (Version 19.12, Profile S, Profile G, Profile T), ISAPI, SDK, ISUP
Simultaneous Live View	Up to 20 channels
User / Host	Up to 32 users, 3 user levels: administrator, operator, and user
Security	Password protection, complicated password, HTTPS encryption, 802.1X authentication (EAP-TLS, EAP-LEAP, EAP-MD5), watermark, IP address filter, basic and digest authentication for HTTP/HTTPS, RTP/RTSP over HTTPS, control timeout settings, security audit log, TLS 1.2, TLS 1.3, host authentication (MAC address)
Client	NVMS V3, X-VMS, LTS Connect APP
Web Browsers	IE 11, Chrome 57+, Firefox 52+, Safari 11+
Imaging	
Day / Night Switch	Day, Night, Auto, Schedule
Image Enhancement	BLC, HLC, 3D DNR
Wide Dynamic Range (WDR)	120 dB
Defog	Digital defog
Image Stabilization	EIS
Regional Exposure	Yes
Regional Focus	Yes
Image Settings	Saturation, brightness, contrast, sharpness, gain, and white balance adjustable by client software or web browser
Privacy Mask	24 programmable polygon privacy masks, mask color or mosaic configurable
SNR	> 52 dB
Interface	
Ethernet Interface	1 RJ45 10M/100M self-adaptive Ethernet port
On-board Storage	Supports MicroSD / SDHC / SDXC cards up to 256 GB
Alarm	2 inputs, 1 output
Reset	Yes

Audio	1 input (line in), max. input amplitude: 2 - 2.4 vpp, input impedance: 1 kΩ ± 10%;
	1 output (line out), line level, output impedance: 600 Ω
Built-in Speaker	1 built-in speaker with effective distance reaching max. 30 meters
Event Types	
Basic Events	Motion detection, video tampering alarm, exception, alarm input and output
Smart Events	Line crossing, intrusion, region entrance / exiting, unattended baggage, object removal, and audio exception/anomaly detections
Smart Tracking	Manual tracking, auto-tracking
Alarm Linkage	Upload to FTP / NAS / memory card, notify surveillance center, send email, trigger alarm output, trigger recording, audible warning, white light flashing, and PTZ actions (such as preset, patrol scan, pattern scan)
Other VCA Functions	
Face Capture	Detects up to 5 faces simultaneously.
	Supports detecting, capturing, grading, selecting of face in motion, and output the best face picture of the face
Perimeter Protections	Line crossing, intrusion, region entrance, region exiting
	Supports alarm triggering by specified target types (human and vehicle)
General	
Power	24 VAC, max. 42 W (including max. 18 W for IR and max. 10 W for heater); Hi-PoE
Operating Condition	-22° to 149° F (-30° to 65° C); Humidity 90% or less (non-condensing)
Demist	Yes
Materials	ADC12
Dimensions	Ø 8.66 × 13.91 in. (Ø 220 × 363.3 mm)
Weight	Approx. 11.03 lbs (5 kg)
Certifications	
Protection	IP66 (IEC 60529-2013), IK10 (excluding glass window), TVS 6000V lightning protection, surge protection and voltage transient protection
EMC	FCC SDoC (47 CFR Part 15, Subpart B)
	CE-EMC (EN 55032: 2015, EN 61000-3-2: 2019, EN 61000-3-3: 2013,
	EN 50130-4: 2011 +A1: 2014)
	RCM (AS/NZS CISPR 32: 2015)
	IC VoC (ICES-003: Issue 6, 2019)
	KC (KN 32: 2015, KN 35: 2015)
Safety	UL (UL 62368-1)
	CB (IEC 60950-1:2005 + Am 1:2009 + Am 2:2013, IEC 62368-1:2014)
	CE-LVD (EN 62368-1:2014+A11:2017)
	BIS (IS 13252(Part 1):2010+A1:2013+A2:2015)
	LOA (SANS IEC60950-1)
Environmental	CE-RoHS (2011/65/EU); WEEE (2012/19/EU);
	Reach (Regulation (EC) No 1907/2006)

Dimensions

363.3

Ø220

Unit:mm

Included Accessories

LTB762

Optional Accessories

LTB751	LTB751-20	POE-PTZPI60N	LTB378	LTB742