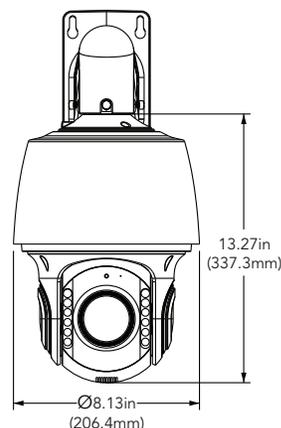# AVC-NSZ81X37LW AI

NDAA COMPLIANT | CE | FC

8MP H.265 NETWORK PTZ CAMERA
Active Deterrence 24/7 Color

OVERVIEW

- 8MP (3840x2160) H.265+/H.264+/MJPEG
- Max. resolution: 3840x2160
- Full Color / Active Deterrence Camera
- 5.5mm to 202mm Motorized Lens (F1.6)
- 3D DNR, WDR, HLC, BLC, ROI encoding
- Intelligent Analytics
- White Light LED / Strobe (Blue & Red) Light
- Built-in MIC / Speaker
- Built-in micro SD card slot, up to 512GB
- IP67 ingress protection
- DC 36V / AC 24V / PoE++ / Max. 44.80W (IR LED on)
- Support remote monitoring by AVYCON ONE (Mobile APP) and AVYCON CMSONE (CMS)

DIMENSIONS

Unit : inch(mm)

13.27in
(337.3mm)

Ø8.13in
(206.4mm)

OPTIONAL ACCESSORIES

AVM-PT-WMT-PM-L1
WALL MOUNT
(INCLUDED)

AVM-PT-CMT-PM-L1
CEILING MOUNT

AVM-CRM-A1
CORNER
MOUNT BRACKET

AVM-P-POM-A2
POLE
MOUNT BRACKET

AVM-PT-TMT-T25
MOUNT ADAPTER

AVM-P-PWMT
PARAPET
MOUNT BRACKET

SPECIFICATIONS

CAMERA	
Image Sensor	1/1.8" Progressive Scan CMOS
Max. Resolution	3840x2160
Min. Illumination	Color: 0.0005Lux @ (F1.6, AGC ON), B/W: 0 Lux with light
Shutter Speed	1/5s to 1/20000s
Slow Shutter	Yes
Day & Night	AUTO (ICR)
Zoom	37x optical, 16x digital
LENS	
Focal Length	5.5mm to 202mm
FOV	Horizontal field of view: 60° to 2.31° (wide-tele)
	Vertical field of view: 35.5° to 1.3° (wide-tele)
	Diagonal field of view: 67.5° to 2.65° (wide-tele)
Aperture	Max. F1.6
Focus	Auto, Semi-auto, Manual
ILLUMINATOR	
Supplement Light Range	White Light: up to 82ft (25m), IR: up to 656ft (200m)
Supplement Light Type	Hybird (IR and White Light)
PTZ	
Movement Range (Pan)	360°
Movement Range (Tilt)	-20° to 90° (auto flip)
Pan Speed	Configurable from 0.6° to 200°/s; preset speed: 200°/s
Tilt Speed	Configurable from 0.6° to 90°/s; preset speed: 100°/s
Proportional Pan	Yes
Presets	255
Patrol Scan	4 patrols, up to 32 presets for each patrols
Pattern Scan	4 pattern scans
Power-Off Memory	Yes
Park Action	Preset, Pattern scan, Auto scan, Patrol scan
3D Positioning	Yes
PTZ Status Display	Yes
Scheduled Task	Preset, Pattern scan, Patrol scan, Auto scan
VIDEO	
Main Stream	50 Hz: 25 fps (3840x2160, 3072x1728, 2592x1944, 2592x1520, 2304x1296, 1920x1080, 1280x960, 1280x720);
	60 Hz: 30 fps (3840x2160, 3072x1728, 2592x1944, 2592x1520, 2304x1296, 1920x1080, 1280x960, 1280x720);
Sub-Stream	50 Hz: 25 fps (1920x1080, 1280x720, 640x480, 320x240);
	60 Hz: 30 fps (1920x1080, 1280x720, 640x480, 320x240);
Mobile Stream	50 Hz: 25 fps (640x480, 320x240);
	60 Hz: 30 fps (640x480, 320x240);
Video Compression	Main stream: H.265+/H.265/H.264+/H.264
	Sub-stream: H.265+/H.265/H.264+/H.264/MJPEG
	Mobile stream: H.265+/H.265/H.264+/H.264
Video Bit Rate	8 kbps to 16384 kbps
H.264 Type	Baseline Profile/Main Profile/High Profile
H.265 Type	Main Profile
Region Of Interest (ROI)	8 fixed regions for each stream
AUDIO	
Audio Compression	G.711a, G.711u
Audio Bit Rate	64 Kbps (G.711)
Audio Sampling Rate	8 kHz
Environment Noise Filtering	Yes
NETWORK	
Network Storage	NAS (NFS, SMB/CIFS), Auto Network Replenishment (ANR)
Protocols	IPv4/IPv6, HTTP, HTTPS, FTP, SMTP, UPnP, SNMP, DNS, DDNS, NTP, RTSP, RTP, TCP/IP, UDP, DHCP, PPPoE, RTMP (v8.2.3 firmware and above)
API	ONVIF Profile G/M/S/T, REST API
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, IP address filter, Control timeout settings
Client	Video Management System (VMS)
Web	IE10/11, Safari V12.1 above, Firefox V.52 above, Google chrome V.57 above, Edge V.79 above
IMAGE	
Day/Night Switch	Day, Night, Auto, Schedule
Image Enhancement	BLC, HLC, 3D DNR
Wide Dynamic Range (WDR)	120dB
Defog	Digital Defog
Image Stabilization	Digital Image Stabilization (DIS)
Image Settiings	Saturation, Brightness, Contrast, Sharpness, Gain, and White Balance adjustable by client software or web browser
Privacy Mask	8 privacy masks
SNR	> 52 dB

SPECIFICATIONS

INTERFACE	
Ethernet Interface	1 RJ45 10M/100M self-adaptive Ethernet port
On-Board Storage	Built-in memory card slot, Support microSD/SDHC/SDXC card, up to 512GB
Alarm	1 Input, 1 Output
Audio	1 Input (line in); 1 Output (line out)
Reset	Yes
Built-In Microphone	1 built-in microphone
Built-In Speaker	1 built-in speaker
EVENT	
Basic Event	Motion detection, Video tampering alarm, Alarm input and output
Smart Event	Face Detection (FD), Pedestrian & Vehicle Detection (PD&VD), Intrusion Detection (ID), Line Crossing Detection (TD), Tripwire Counting (TC), Stationary Object Detection (OBJ), Heat Map (HM), Crowd Density Detection (CD), Queue Length Detection (QD), License Plate Detection (LPR), Rare Sound Detection (RSD), Region Entrance Detection, Region Exiting Detection, Loitering Detection
Smart Tracking	Auto-tracking
Alarm Linkage	Upload to FTP/NAS/memory card, Send email, Trigger alarm output, Trigger recording
GENERAL	
Power	DC 36V / AC 24V / PoE++ / Max. 44.80W (IR LED on)
Operating Condition	-22 °F to 149 °F (-30 °C to 65 °C), Humidity 90% or less (non-condensing)
Demist	Yes
Material	Metal
Dimension	Ø8.13in × 13.27in (Ø 206.4 mm × 337.3 mm)
Weight	Approx. 11.6lbs (5.27kg)
APPROVAL	
Protection	IP67, IK10