

Milesight OpenVision Server Mini

All-in-one Intelligent Monitoring Workstation



KEY FEATURES

- ▶ **8-Channel Edge Lightweight Recorder** (Supports up to 8 channels of video input with 80Mbps bandwidth and H.265/H.264 hardware decoding – ideal for edge-side recording and distributed deployment.)
- ▶ **Built-in Nx Witness Client** (Connects directly to a monitor for Nx Witness Client operation.)
- ▶ **Dual 2.5G Ethernet Port with Link Aggregation** (Delivers high throughput and network redundancy via LACP/ALB.)
- ▶ **Massive Expandable Storage** (Two M.2 MKey SSD slots, total 8TB capacity for longterm, reliable video retention and quick retrieval.)
- ▶ **High Reliability Design** (Fanless compact design; PoE+/DC 12V flexible power supply with low voltage alarm prevents unexpected shutdowns.)
- ▶ **Wide Temperature Range** (Stable operation from -20°C to 60°C , suitable for harsh outdoor environments.)
- ▶ **Web-based Remote Management & File Manager** (Support remote access via browser for system configuration, firmware upgrade, and a built-in file manager.)
- ▶ **Hardened Security with fTPM** (Hardware-based TPM ensures secure boot, BIOS encryption, and tamper resistant key storage – meeting advanced cybersecurity requirements.)
- ▶ **Versatile Mounting Options** (Supports VESA, DIN rail, and bracket mounts, suitable for diverse deployment scenarios.)



Pre-installed Nx Witness for Instant Setup



Linux-based & Stable Operation



Empower Camera Analytics on Nx Witness with Built-in Plugin



Flexible Deployment for Diverse Edge Scenarios



Cost-Effective & Low Power Consumption



Multi-Instance Central Management

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	Model	SE0208-K/NX/1	SE0208-K/NX/A05/1
System	Main Processor	Intel Quad Core @3.40 GHz Max	
	Memory	4GB LPDDR5	
	Firmware Storage	32GB eMMC	
	Operating System	Linux Ubuntu 24.04 LTS	
	GPU Options	Integrated GPU	
	TPM	fTPM	
	Auto Power On	Support	
Storage	Supported SSD	Max. 8TB, up to 4TB per disk	
	SSD Slot	2* M.2 M-Key SSD	
Network	Protocol	IPv4, IPv6, TCP/IP, UDP/IP, RTP (UDP), RTP (TCP), RTSP, NTP, HTTP, DHCP (Client), ICMP, IGMP, ARP, DNS, HTTPS, ONVIF, NFS, SMB	
Audio	Compression	G.711/AAC/G.726	
	Audio Communication	2-way	
Performance	Video Inputs	Max. 8CH	
	Video Resolution	12MP ~ CIF	
	Network Bandwidth	Max. 80Mbps Recording, Max. 160Mbps Outgoing	
	Metadata Performance	Client disabled: 32 targets/s (AI by Camera) Client enabled: 5 targets/s (AI by Camera)	
	Video Compression	H.265, H.264, MJPEG	
	Decoding Capability	Server disabled: 4 channels of 12 MP@30 fps; 6 channels of 8 MP@30 fps; 9 channels of 4 MP@30 fps; 16 channels of 1080p@30 fps; Server enabled (Limited Metadata*): 2 channels of 4 MP@30 fps; 4 channels of 1080p@30 fps;	
	Storage Mode	Continuous, Motion, Events, Objects, Dual Stream	
	Edge Analytics	Analytics Events (Based on camera metadata): CCTV (Intrusion Detection/ Region Entrance/ Region Exit/ Advanced Motion Detection/ Line Crossing/ Loitering/ Object Left/Object Removed/ Object Counting/ Regional People Counting); LPR (Attribute Event/ Black List/ White List/ Visitor Event/ Speed Monitoring/ No Plates/ Reverse Driving); Object Detected Events (Person and Vehicle with Attribute/ Face)	
		Smart Search (Based on camera metadata): CCTV: Person (Hat, Top Clothing Color, Bottom Clothing Color), Vehicle (Vehicle Type), Face (Gender, Age, Mask, Cap, Glasses); LPR: Vehicle (Color, Vehicle Type, Brand, Speed, Direction), License Plate (Number, Color, Country, Plate Type)	

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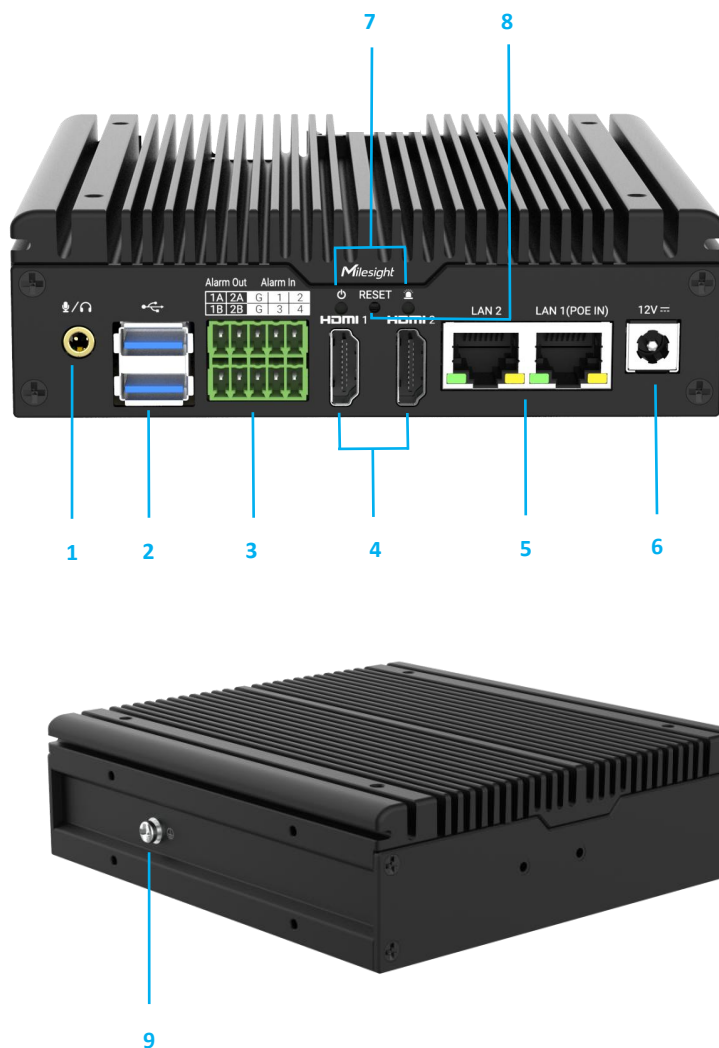
Application	Nx Witness Server	Support (Include Plug-in)	
	Nx Witness Client	Support	
	ONVIF Device	Support	
Management	Web Management	Support	
	Web File Manager	Support	
	Basic Event	Audio Alarm, Network Disconnected, IP Address Conflict, SSD Full, SSD Uninitialized, SSD Error, No SSD, Low Voltage	
	Maintenance	Firmware Upgrade, Auto Reboot	
Interface	Ethernet	2*2500Mbps RJ45 Ethernet Port, Lan 1 support POE PD	
	Link Aggregation	Active Backup, Link Aggregation Control Protocol (LACP), and Adaptive Load Balancing (ALB)	
	Display	2* HDMI Port Simultaneous Mode (Simultaneously outputs video sources for HDMI 1 & 2 ports) HDMI 1 & 2: 3840x2160/60Hz, 1920x1080/60Hz	
	Audio	1x 3.5mm Headphone Jack with Microphone Input (4-pole, TRRS, CTIA Standard)	
	Alarm I/O	4/2	
	Indicator light	2 (Power & Alarm Light)	
	Reset Button	Yes	
	USB Interface	2*USB 3.0	
	Power Supply	PoE+ (802.3at) / DC 12V±15% (5525 DC power plug)	
General	Consumption	Typical: 6W (Without SSD, DC), 8W (Without SSD, POE) MAX: 16W (With 2*SSD, DC), 18W (With 2*SSD, POE)	
	Working Temperature	-20°C to 60°C	
	Working Humidity	10% to 90% RH (No freezing and no condensation)	
	Cooling System	Fanless Design	
	Dimension	135mm(W) X 140mm(D) X 40mm(H) (Without Mount)	
	Installation	VESA Mount	DIN Rail Mount, VESA Mount, Bracket Mount
	Net Weight	0.99 Kg	1.0 Kg
	Package Weight	1.3 Kg	
	Warranty	3 Years	

Notice: Nx license is not included by default.

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Interfaces



- 1 - 3.5mm Headphone Jack with Microphone Input (4-pole, TRRS, CTIA Standard)
- 2 - 2* USB 3.0
- 3 - 4* Alarm Input: Wet Contact (5V) or Dry Contact
2* Alarm Output: Dry Contact (Rated Voltage 24V / Current 1A)
- 4 - 2* HDMI Port
- 5 - 2* 2500Mbps RJ45 Ethernet Port, Lan1 support POE PD
- 6 - Power Supply (DC 12V)
- 7 - 2* Indicator Light (Power & Alarm Light)
- 8 - Reset Button
- 9 - Grounding Hole (Grounding Screw Pre-installed)

Version: V1.2

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