

Expandable, Versatile, and AI-Enabled Surveillance Solution



Performance

- Intel® Core i5/i7 processors
- GPU: Intel® UHD Graphics 730/770
- RAM: DDR5 (8GB x2, optional 16GB x2)
- AI Accelerator: Intel® GNA 3.0
- Hailo-8 AI Accelerator

Additional Hailo-8 AI module (Optional)

Standard	Pro	Ultra
1	2	2

Product Features

Expandable Design:

- Equipped with USB and M.2 (M-Key) interfaces for easy customization and feature addition
- Supports AI module connectivity for advanced video analytics.

PoE Management:

- Integrated PoE interface for power and network management.
- Control power consumption and network quality, reducing installation costs.

Processors & Throughput:

- Supports Intel Core i5 to i7 processors
- Up to 640 Mbps throughput for live recording



Hardware Highlights



Video Processing

H.264 / H.265
Compression

Supports 3MP
/ 5MP / 4K IP
Cameras

Live Display:
Up to 128
Channels

IPCAM Throughput:
Avg: 320-640 Mbps |
Peak: 420-840 Mbps

Decoding:
Up to
3840
fps@D1



External Interface

USB Ports:
• USB 2.0 x4
• USB 3.2 x2
• USB Type-C x1

Display Output:
• HDMI x2
• DisplayPort
x1-2

Storage Expansion:
• 3.5" SATA: up to x4
• M.2 (M-Key): PCIe
x4 and PCIe x2 slots

Alarm I/O:
• Digital Input: x4
• Relay Output:
x4

COM Port:
Optional RS232/
RS485

Audio:
• MIC-in (3.5mm)
• Line-out (3.5mm)

RAID Support (Pro/Ultra):
0/1/5/6/10



Connectivity

- Dual WAN Uplink: RJ-45 x2 (10M/100M/1G/2.5G)
- LAN Uplink: RJ-45 x1 or x2 (10/100/1000 Mbps)

PoE LAN Ports:

- 8, 16, or 24 ports depending on model
IEEE 802.3 af/at standard
- PoE Total Power Budget: 120W / 240W / 360W
- PoE & Switch Management: Linux SDK

User can use the POE Management interface to monitor or configure POE power consumption, network connection quality, and control the POE power. This function helps reduce extra devices and cost during installation.



Contact Us!



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Analytics and Integrations



On-Device AI Detection with AOL's Samurai Detection Suite

Customers expect advanced solutions. Simultaneously run AI Detection on multiple camera streams.

Samurai Detect is an intelligent, agile, and scalable solution that leverages the Hailo-8 AI Accelerator Platform to deliver high-performance object detection and analysis.



Nx Witness Integration

Katana seamlessly integrates with Nx Witness on device.

Nx Witness enables you to effortlessly monitor, analyse, and manage your video footage, ensuring enhanced security and streamlined operations. Our Samurai suite Nx plug-in enables effortless analytic setup and management.

Analytic Capabilities

Powered by Art of Logic's Samurai Suite



Base suite

Detect people with or without facial recognition



Object Recognition

100+ object Library
Custom objects created on request



Re-ID

Link movements between cameras, privacy-safe.



LPR Number Plate Recognition

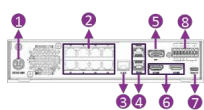
Identify vehicles by license plate.

Specification

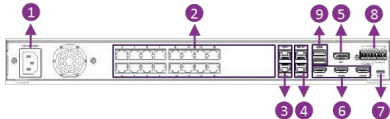
MODEL NAME	Katana		Katana Pro		Katana Ultra
Operation System	Win 10 LTSC / Linux				
CPU	i5 Core processors		i5 Core processors		i7 Core processors
RAM	DDR5, 8GB x2 (Optional: 16GB x2)				
Boot Drive (PCIe x4)	M.2 SSD, 128GB (Optional: 256GB, 512GB)				
Graphics	Intel® UHD Graphics 730 / 770				
AI Accelerator	Intel® Gaussian & Neural Accelerator 3.0 (GNA)				
DISPLAY PORT Output	x1, Up to 4096x2160 @60Hz		x2, Up to 4096x2160 @60Hz		
HDMI Output	x2, Up to 4096x2160 @60Hz				
Audio Input	MIC-in, 3.5 mm x1, TRS phone jack				
Audio Output	Line-out, 3.5 mm x1, TRS phone jack				
USB Port	USB2.0 x2; USB3.2 x2; (front) USB3.2 Type-C x1 (rear)		USB2.0 x2 ; USB3.2 x1 ; (front) USB3.2 x1 ; USB3.2 Type-C x1 (rear)		
Recording / Playback*					
IPCAM Throughput	Average : 320Mbps Peak : 420Mbps		Average : 640Mbps Peak : 840Mbps		
GPU Hardware Decoding	64CH real-time display Up to 1920 fps@D1 decoding		128CH real-time display Up to 3840 fps@D1 decoding		
Compression Format	H.264 / H.265				
Storage and I/O					
SATA Interface	3.5” SATA x1		3.5” SATA x4		3.5” SATA x4
eSATA Interface	eSATA x1		N/A		
Hardware RAID*	N/A		RAID 0/1/10/5/6		
M.2 interface (M-key)	PCIex4 x1 ; PCIex2 x2		PCIex4 x3 ; PCIex2 x1		
Digital Input	Input level +/- 24Vdc, Terminal Block x4				
Relay Output	24V, 1A, Solid State Relay, Terminal Block x4				
COM Port*	(Optional:RS-232/RS485, Terminal Block x1)				
Network					
WAN Uplink	RJ-45 x2, 10M/100M/1G/2.5G bps				
LAN Uplink	RJ-45 x1, 10/100/1000 Mbps		RJ-45 x2, 10/100/1000 Mbps		
LAN port with POE	RJ-45 x8, 10/100 Mbps		RJ-45 x16, 10/100 Mbps		RJ-45 x24, 10/100 Mbps
PoE Level	IEEE 802.3 af/at x8		IEEE 802.3 af/at x16		IEEE 802.3 af/at x24
PoE total Power budget	120W		240W		360W 360W
PoE & Switch Management	Linux SDK				
General					
Unit Dimensions (mm)	220 x 244 x 44		428 x 435 x 44		428 x 435 x 44
Unit Weight (kg)	TBD		TBD		TBD
Package Dimensions (mm)	458 x 321 x 110		575 x 575 x 175		575 x 575 x 175
Package Weight (kg)	TBD		TBD		TBD
Operation Temperature	0°C ~ 40°C / 32°F ~ 104°F				
Operation Relative Humidity	10% ~ 90% Non-condensing				
System Power Supply	AC 100~240V, 250W (56V/4.46A)		AC 100~240V, 520W		AC 100~240V, 560W

* Optional

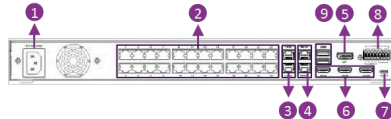
KATANA



KATANA PRO



KATANA ULTRA



1. Power Jack
2. PoE Switch
3. LAN (RJ45) 10/100/1000 Mbps
4. WAN (RJ45) 100M/1G/2.5Gbps
5. Display Port
6. HDMI Port
7. USB3.2 TypeC
8. Alarm I/O
9. USB 3.0 Ports

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