



VAISENSE

Tower Server

VS-T-24TB / VS-T-48TB

Turn Existing IP cameras into enterprise-grade AI platform-locally, securely, and at scale.

Note: Images are for reference only.

Up to **48**
IP Cameras

RAID 0/1
Storage Support

Scalable **AI**
Processing



Camera Support

Supports up to 48 IP cameras compatible with most ONVIF-compliant devices, with up to 4K resolution.



Local HDD Storage

Up to 24TB / 48TB of raw storage. Supports RAID 0/1 configurations for performance and redundancy.



On-Edge Device

Real-time AI inference powered by NVIDIA GPU, enabling people & face detection, vehicle & license plate recognition, occupancy analytics, smoke and fire detection, and weapons detection-all on the edge.



IoT & Peripheral Integration

Native support for USB, GPIO, PoE, and IP-based devices, including alarms, speakers, displays, and auxiliary sensors.



Industrial-Grade Design

Standard tower chassis design suitable for control rooms and on-premises deployments.



Security & Compliance

Built-in TPM 2.0 hardware security and NDAA-compliant architecture to meet enterprise and government requirements.

AI Analytics Capacity



People & Vehicle
Detection



LPR Detection



Line Crossing
Detection



Smoke & Fire
Detection



Face Recognition
Detection



Occupancy
Analytics



Loitering
Detection



Weapons
Detection



Key Components & Features

TPM 2.0 Support	Supported
Operating System	Embedded Linux-based OS
CPU Model	Intel Core Ultra 7
Installed Memory	32GB DDR5
Maximum Memory	Up to 64GB (2 DIMM slots)
GPU	1 x NVIDIA RTX 5060
M.2 Slots	2 x M.2 PCIe 4.0 ×4 slots (for SSD, 2230/2280) 1 x M.2 slot (for WiFi/Bluetooth, 2230)
PCI-Express (PCIe) Configuration	1 x PCIe 5.0 ×16 slot 2 x PCIe 3.0 ×4 slots
Drive Bays	2 × 3.5" internal SATA
Front I/O Interfaces	1 x USB 3.2 Gen 2 Type-C port 3 x USB 3.2 Gen 1 Type-A ports 1 x SD-card slot / 1 x Audio Jack
Ethernet	1 x 2.5GbE RJ45
USB	2 x USB 3.2 Gen 1 Type-A ports 4 x USB 2.0 Type-A ports
Thunderbolt	1 x Thunderbolt™ 4 Type-C port
Video	1 x HDMI 2.0
Audio	1 x S/PDIF port 1 x Audio Line-out 1 x Audio Line-in
Power Supply	1000W Single PSU
Form Factor	Mid-Tower
Dimension (H x W x D)	372.9 × 173.0 × 426.9 mm 14.68 × 6.81 × 16.81 in
Operating Temperature	10–35 °C
Certification	CE/FCC/UL
Standard Warranty	3 Years
Extended Warranty Option	Available



Models

	VS-T-24TB	VS-T-48TB
Number of Camera	Up to 48 cameras	Up to 48 cameras
Camera Capacity Suggestion	4MP@15fps	4MP@15fps
Video Codec Capacity	Supports both H.264 and H.265	Supports both H.264 and H.265
Total Storage Capacity	24TB	48TB
Storage Architecture & Retention Policy	RAID-configurable storage architecture.	RAID-configurable storage architecture.