



VAISENSE Phoenix Compact Server

VS-PCP-2TB / VS-PCP-4TB

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

Up to **32**
IP Cameras

Compact **Edge**
Deployment

Low-Power
Architecture



Camera Support

Supports up to 16/32 IP cameras compatible with most ONVIF-compliant devices, with up to 4K resolution.



Local SSD Storage

Integrated 2TB/ 4TB SSD does high-throughput video ingest or reliable local data retention on the edge.



On-Edge Device

Real-time AI inference powered by DeGirum ORCA™, 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

Compact, ruggedized enclosure engineered for space-constrained sensors, and continuous operation in harsh edge environments.



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 Alder Lake-N N97 (12W TDP)
Installed Memory	16GB LPDDR5 6400MHz
Maximum Memory	16GB
GPU	1 x DeGirum ORCA
M.2 Slots	1 x M.2 2280 (SATA/NVMe Gen3×1) 1 x M.2 2280(NVMe Gen3×2)
Front I/O Interfaces	1 x COM Port for RS232/482/485(DB9) 1 x 40pin GPIO connectors (SPI/PWM/UART/I2C/GPIO)"
Ethernet	1 x 1GbE RJ45 1 x 2.5GbE RJ45
USB	1 x USB 3.1 Gen1 Type-A 1 x USB 3.1 Gen2 Type-C 2 x USB 2.0 Type A
Video	1 x Display Port 1 x HDMI 2.1 (4K@60Hz)
Audio	1 x Audio Line-out 1 x Audio Line-in
Power Supply	12v/19v 60/90W DC Power Adapter
Form Factor	Compact Edge Appliance
Dimension (H x W x D)	165 x 115 x 55 mm 6.45 x 4.53 x 2.17 in
Operating Temperature	0–55 °C
Certification	CE/FCC/UKCA/BSMI/VCCI/ICES/UL/CB/ERP/WEEE/ REACH/ROHS
Standard Warranty	3 Years
Extended Warranty Option	Available
Reserved	4G/5G Module Wifi/BT Module
Accessories	VESA mount and L bracket Thermal protection cover



Models

	VS-PCP-2TB	VS-PCP-4TB
Number of Camera	Up to 16 cameras	Up to 32 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	2TB	4TB
Storage Architecture & Retention Policy	Single-drive local recording architecture.	Single-drive local recording architecture.