



People & Vehicle Counting

Next generation artificial intelligence counting solution

Aicuda's AIVA PVC series is ideal for optimizing business operations and traffic flows. Persons and / or vehicles in a pre-defined area are counted in real time. The collected data provides quantitative and actionable insights for business intelligence and data-driven decision making. The people counting solution detects and triggers alerts for sub artificial intelligence functions such as reverse movement, fall, crouch and loitering. The vehicle counting solution detects and triggers alerts for sub artificial intelligence functions like reverse movement and illegal parking.

Simple configuration and management

The open architecture technology of the AIVA PVC Series makes it easy to integrate with 3rd party hard- and software products. Connect to surveillance cameras for live streaming or to NVR or DVR for playback. Meta data is extracted from video files and stored on the AIVA appliance for fast video search and review.

Aicuda AIVA benefits for the customer

- **All-in-One Solution**
Supports multiple functions like video search, face recognition, fire detection, intrusion detection, license plate recognition, people & vehicle counting, reverse movement and weapon detection.
- **Ability to learn**
Platform is able to learn from experience using a multi-layer neural network. It is trained to recognize items and patterns, not programmed.
- **Intuitive, easy-to-use interface**
Google-like search engine and intuitive result display based on easy-to-use natural language interface..
- **Plug-and-play**
Out of the box ready to use artificial intelligence solution with pretrained self learning artificial intelligence models.
- **Partner Proven**
Fully compatible with ONVIF IP cameras like Axis, Bosch, Hanwha and Sony. Compatible with leading VMS, including Axxonsoft, Digifort, Genetec, ISS, Milestone and others.
- **Significant increase in productivity**
Rapidly pinpoint persons and objects of interest. Review hours of video in minutes.



Highlights

- Excellent value for an intelligent surveillance appliance
- AIVA solutions are trained, not programmed
- Significant time and cost savings
- Supports AI functions fall / crouch, illegal parking, loitering and reverse movement.
- Out of the box solution
- 2 year warranty on hardware / 1 year software maintenance
- Supports all ONVIF devices

Deployment:

- Airports, city surveillance, corporate facilities, entertainment venues, government, parkings, public facilities, shopping centers, tourist attractions, transportation hubs

Deep Learning Technology

Surveillance is a repetitive and mundane task. This may cause performance dips for human beings. Aicuda Technology is developing AI solutions based on deep learning to let the technology do the surveillance for us.





Product Specifications



Model	AIVA-PVC 110	AIVA-PVC 130	AIVA-PVC 510	AIVA-PVC 530	AIVA-PVC 550
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Product Image



Model Series	AIVA-PVC 100 series	AIVA-PVC 100 series	AIVA-PVC 500 series	AIVA-PVC 500 series	AIVA-PVC 500 series
AI resources	16	32	32	64	128
AI People Count	Max. 2 channels	Max. 4 channels	Max. 4 channels	Max. 8 channels	Max. 16 channels
AI Vehicle Count	Max. 2 channels	Max. 4 channels	Max. 4 channels	Max. 8 channels	Max. 16 channels
Central Search	Yes	Yes	Yes	Yes	Yes
Form Factor	Mini-PC	Mini-PC	1U	1U	2U
CPU	Intel Core i5	Intel Core i7	Intel Xeon E5	Dual Intel Xeon E5	Dual Intel Xeon E5
AI GPU	NVIDIA Performance GPU	NVIDIA High Performance GPU	NVIDIA High Performance GPU	NVIDIA High Performance GPU	Dual NVIDIA High Performance GPU
AI Storage	Include one 1TB HDD 1x 3.5" SATA III cold swappable disk bay	Include one 1TB HDD 1x 3.5" SATA III cold swappable disk bay	Include one 1TB HDD 2x 3.5" SATA III hot swappable disk bay	Include one 1TB HDD 2x 3.5" SATA III hot swappable disk bay	Include one 2TB HDD 10x 3.5" SATA III hot swappable disk bay
Network	Dual Gigabit Ethernet	Dual Gigabit Ethernet	Dual Gigabit Ethernet	Dual Gigabit Ethernet	Dual Gigabit Ethernet
System HDD	128GB SSD	128GB SSD	2x 240GB SSD (RAID1)	2x 240GB SSD (RAID1)	2x 240GB SSD (RAID1)
Memory	8GB	16GB	16GB	32GB	32GB
RAID Support	No RAID Support	No RAID Support	RAID 0, 1, 5, 6, 10	RAID 0, 1, 5, 6, 10	RAID 0, 1, 5, 6, 10
HDD Support	1, 2, 4, 6, 8, 10TB HDD	1, 2, 4, 6, 8, 10TB HDD	1, 2, 4, 6, 8, 10TB HDD	1, 2, 4, 6, 8, 10TB HDD	1, 2, 4, 6, 8, 10TB HDD
Stackable	Yes	Yes	Yes	Yes	Yes
Rack Mount	No	No	Yes	Yes	Yes
Video File Format	MP4,WMV,AVI,MOV,MPG	MP4,WMV,AVI,MOV,MPG	MP4,WMV,AVI,MOV,MPG	MP4,WMV,AVI,MOV,MPG	MP4,WMV,AVI,MOV,MPG
Supported codes	H.264, H.265, MJPEG, MPEG 1, MPEG2, MPEG4, VC1, VP8, VP9	H.264, H.265, MJPEG, MPEG 1, MPEG2, MPEG4, VC1, VP8, VP9	H.264, H.265, MJPEG, MPEG 1, MPEG2, MPEG4, VC1, VP8, VP9	H.264, H.265, MJPEG, MPEG 1, MPEG2, MPEG4, VC1, VP8, VP9	H.264, H.265, MJPEG, MPEG 1, MPEG2, MPEG4, VC1, VP8, VP9
File-Based Ingestion	Multi File Videos or Single File Videos	Multi File Videos or Single File Videos	Multi File Videos or Single File Videos	Multi File Videos or Single File Videos	Multi File Videos or Single File Videos
Warranty	2 years warranty HW 1 year SW maintenance	2 years warranty HW 1 year SW maintenance	2 years warranty HW 1 year SW maintenance	2 years warranty HW 1 year SW maintenance	2 years warranty HW 1 year SW maintenance

* For every camera channel with People Counting and Vehicle Counting, Video Search is automatically included without requiring additional AI resources.

* People Counting includes people counting, person reverse direction movement, person fall / crouch and loitering detection.

* Vehicle Counting includes vehicle counting, vehicle reverse direction movement and illegal parking detection.

* Design and specifications are subject to change without notice.

