AICUDA
TECHNOLOGY

AIVA VSA Series

Next generation artificial intelligence search solution

Aicuda's AIVA VSA Series utilizes deep learning algorithms to allow customers to identify animals, objects, persons and vehicles via an intelligent video search engine. Aicuda brings speed and adaptability to security while helping customers quickly analyze video data using artificial intelligence and deep learning technology. Search tasks through terabytes of video that took hours before can now be completed in seconds.

Simple configuration

The open architecture technology of the AIVA VSA 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.

◎ Highlights

- High-performance intelligent appliances
- Up to 128 channels
- AIVA solutions are trained, not programmed
- Out of the box solution
- 2 year warranty on hardware / 1 year software maintenance
- Supports all ONVIF devices
- Significant time and cost savings

Benefits for the customer

Aicuda AIVA video search is the industry's first artificial intelligence solution with a simple and easy user interface. The AIVA VSA series seamlessly transforms video into actionable intelligence.

All-in-One Solution
Supports multiple functions like video search, face recognition, fire detection, intrusion detection, license plate recognition, 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.

Product Specifications

AIVA

Model	AIVA-VSA 110	AIVA-VSA 130	AIVA-VSA 510	AIVA-VSA 530	AIVA-VSA 550 / 570
Product Image					
Model Series	AIVA-VSA 100 series	AIVA-VSA 100 series	AIVA-VSA 500 series	AIVA-VSA 500 series	AIVA-VSA 500 series
AI resources	16	32	32	64	128
Video Search	Max. 16 channels	Max. 32 channels	Max. 32 channels	Max. 64 channels	Max. 64 / 128 channels
Intrusion Detection	Max. 8 channels	Max. 16 channels	Max. 16 channels	Max. 32 channels	Max. 64 channels
FR / FS	Max. 4 channels	Max. 8 channels	Max. 8 channels	Max. 16 channels	Max. 32 channels
FR Database	200 persons (5 faces per person)	200 persons (5 faces per person)	10,000 persons (5 faces per person)	10,000 persons (5 faces per person)	10,000 persons (5 faces per person)
AI LPR	Max. 2 channels	Max. 4 channels	Max. 4 channels	Max. 4 channels	Max. 4 channels
AI People Count	Max. 1 channels	Max. 2 channels	Max. 2 channels	Max. 4 channels	Max. 8 channels
AI Vehicle Count	Max. 1 channels	Max. 2 channels	Max. 2 channels	Max. 4 channels	Max. 8 channels
Central Search	Yes	Yes	Yes	Yes	Yes
Form Factor	Mini-PC	Mini-PC	1U	2U	2U
CPU	Intel Core i5	Intel Core i7	Intel Xeon	Dual Intel Xeon	Dual Intel Xeon
AI GPU	NVIDIA High Performance GPU	NVIDIA High Performance GPU	NVIDIA High Performance GPU	Dual NVIDIA High Performance GPU	Dual NVIDIA High / Super High Performance GPU
AI Storage	Include one 1TB HDD 1x 3.5" SATA III Internal disk bay	Include one 2TB HDD 1x 3.5" SATA III Internal disk bay	Include one 6TB HDD 1x 3.5" SATA III cold swappable disk bay	HDD not included 6x 3.5" SATA III hot swappable disk bay	HDD not included 6x 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	240GB SSD	240GB SSD	480GB SSD	2x 480GB SSD (RAID1)	2x 480GB SSD (RAID1)
Memory	8GB	16GB	16GB	32GB	32GB
RAID Support	No RAID Support	No RAID Support	No RAID Support	RAID 0, 1, 5, 6, 10	RAID 0, 1, 5, 6, 10
HDD Support	1, 2, 4, 6, 8, 10, 12TB HDD	1, 2, 4, 6, 8, 10, 12TB HDD	1, 2, 4, 6, 8, 10, 12TB HDD	1, 2, 4, 6, 8, 10, 12TB HDD	1, 2, 4, 6, 8, 10, 12TB 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 codecs	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

* AI LPR, AI People Count and AI Vehicle Count are optional.
* For every camera channel with ID, FRS, LPR, PC or VC, 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.

sales@aicuda.world
www.aicuda.world