VCA Ai Bridge

VCA
Applied Intelligence

AI BASED ANALYTICS SERVER

All-in-One, Stand-Alone Analytics Server

- Hardware solution to allow quick deployment of video analytics.
- Open and standard interfaces for rapid integration.
- Optional VCA forensic search service.
- Stream video directly from any IP camera or VMS via RTSP.
- State-of-the-art Machine Learning and AI algorithms for tracking people, vehicle types and bags.
- Full analytics metadata stream provided to facilitate forensic search or other value-add applications.
- Customisable out-of-the-box HTML5 user interface for analytics configuration; Configure rules and review events using your web browser on any device (via Chrome on Windows, Linux, Mac, Android).
- 3 years warranty
- Contact info@vcatechnology.com for more information

The VCA AI Bridge is a hardware platform that comes loaded with VCAserver, providing industry-leading deep learning video analytics for event notification. It can also support VCAforensics for advanced post-event appearance searches.

The AI Bridge supports the VCA range of AI based analytics to provide accurate detection of people, types of vehicles and objects as well as specific events such as slip and fall, hand held objects, shelf clearance and left bags

VCAserver has been designed from the ground up to be easy to use and integrate. With video streaming, event alerting and an HTML5 configuration interface out-of-the-box, simple integrations can be completed in less than a week.

VCAforensics provides an intuitive appearance search tool, using snapshots, video clips and metadata from VCAserver with the ability to play recorded footage from VMS platforms

AI FEATURES

| People detection | Head tracking | Vehicles types | Bag detection | Hand held objects | Slip and fall | Shelf clear | Aggressive Behaviour |

FORENSIC SEARCH FEATURES

| Search Tabs | Colour | Zones | Date/time filter | Object filter | Metadata database | VMS Playback | Image Search |

VCAAi Bridge

OVERVIEW

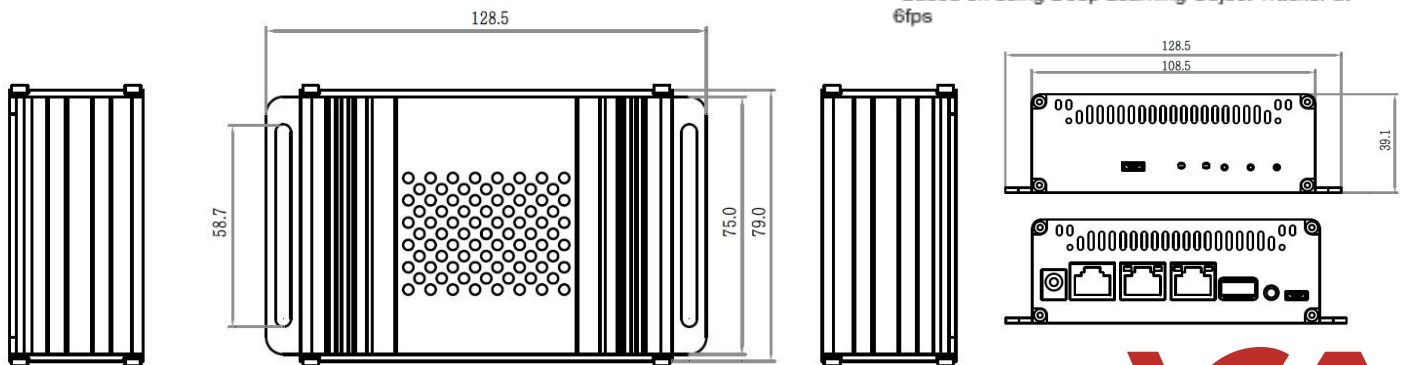|	
VCAserver	Industry leading Deep learning video analytics software.
Channel Support	Up to **10 Channels when** using the deep learning object tracker at 6fps
Event Rules	Intrusion detection, Tamper detection, Enter & exit filters, Appear & Disappear filters, Stopping filter, Dwell filter, Direction filter, Counting, Abandoned object filter, Removed object filter, Zones & lines, Speed filter, 3D calibration, Tailgating filter, Logical rules.
Event Actions	E-mail, TCP, HTTP
VCAforensics	Providing advanced appearance searches using analytic metadata from VCAserver
Channel Support	Up to **3 Channels**

SYSTEM

SYSTEM	ABP301	ABP302
Channel Capacity*	Up to 8 channels	Up to 10 channels
Core Module	Orin Nano 4GB	Orin Nano 8GB
GPU	512-core Ampere, with 16 Tensor Cores	1024-core Ampere, with 32 Tensor Cores
System Drive	250GB, M.2 NVME	250GB, M.2 NVME
Services	VCAserver *Optional: VCAforensics*	
Operating System	Ubuntu 20.04 LTS Desktop	
Power	DC 12V/5A (1 x DC power jack)	
Color & Material	Black/Silver & Metal	

PORTS

USB	2 x USB 3.1 Gen
Video (GPU)	1 x micro HDMI
Network	2 x 1 Gigabit RJ-45
Operating Temperature	0°C to +40°C (32℉ to 104℉)
Operating Humidity	20% ~ 85% RH
Dimensions	128.5mm(W) x 39.1mm(H) x 79mm(D)
Weight	Approx. 350g

PARTS LIST

ABP301	Video Analytics Server, supporting up to 8 channels*	1 channel with VCAforensics
ABP302	Video Analytics Server, supporting up to 10 channels*	3 channels with VCAforensics

*Based on using Deep Learning Object Tracker at 6fps

128.5

58.7

75.0

79.0

128.5

108.5

39.1

(All measurements in mm)

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