# VCAabp

## VCA Applied Intelligence

# AI BASED ANALYTICS BRIDGE

## All-in-One, Stand-Alone Analytics bridge

- 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

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The VCAabp series 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 supports all the VCA Ai 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 |
|---|---|---|---|---|---|---|---|

# VCAabp

## OVERVIEW

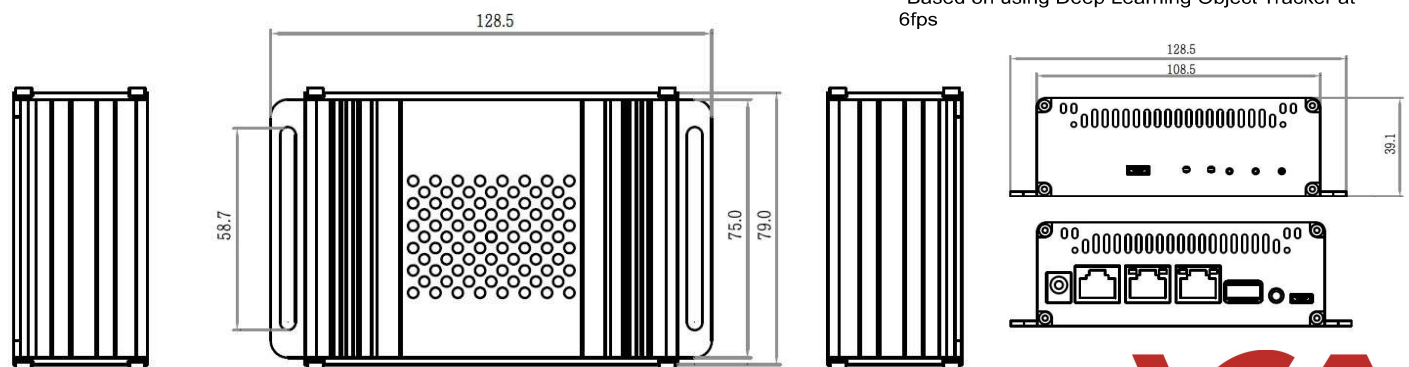| | |
|---|---|
| **VCAserver** | Industry leading Deep learning video analytics software. |
| Channel Support | Up to **12** Channels when using the deep learning object tracker at 6fps |
| Event Rules | Intrusion detection, Tamper detection, Enter & exit filters, Appear & Disappear filters, Stopping 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 **9 Channels** at 6fps |

AI Bridge

RECOVERY   LAN1   LAN2   PWR   OTG

| SYSTEM | ABP301 | ABP302 |
|---|---|---|
| **Channel Capacity\*** | Up to **8** channels | Up to **12** 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 | 500GB, 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 | |

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| 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 50°C (32°F to 122°F) |
| **Operating Humidity** | 20% ~ 85% RH |
| **Dimensions** | 128.5mm(W) x 39.1mm(H) x 79mm(D) |
| **Weight** | Approx. 350g |

## PARTS LIST

| | |
|---|---|
| **ABP301** | Video Analytics Bridge, supporting up to **8** channels\* |
| **ABP302** | Video Analytics Bridge, supporting up to **12** channels or **9** 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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