

AI BASED ANALYTICS BRIDGE

All-in-One, Stand-Alone Analytics bridge

- Hardware solution to allow quick deployment of video analytics.
- Ready to go with our industry-leading video analytic service, **VCAserver**.
- State-of-the-art Machine Learning and Ai algorithms for tracking people and vehicle types.
- Supports our business reporting service **RetailTrend On-premise/Cloud**.
- **VCA forensics** search service is available on the ABP302 series.
- Stream video directly from any IP camera or VMS via RTSP.
- Open and standard interfaces for rapid integration.
- Full analytic metadata stream provided to facilitate forensic search or other value-added applications.
- Access services (VCAserver and RetailTrend) using a web browser from any device.
- 3-year warranty.
- Contact info@vcatechnology.com for more information.

The VCAabp series is a hardware platform that comes loaded with VCAserver. It provides industry-leading deep learning video analytics for event notification and is also capable of supporting VCAforensics or RetailTrend for a complete analytic solution.

VCAserver has been designed from the ground up to be easy to use and integrate, providing accurate detection of people, vehicles and other objects as well as specific events such as slip and fall, hand-held objects, shelf clearance and behaviour.

RetailTrend is our business reporting tool, taking data from VCAserver and displaying footfall, engagement, heatmaps and more via the browser-based UI, either on-premise or cloud.

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



Hand-held objects



Slip and fall



Shelf clear



Fight Behaviour



Accessory

FORENSIC SEARCH FEATURES



Search Tabs



Date/time filter



Object filter



Image Search

RETAILTREND FEATURES



Footfall



Direction Flow



Heatmap



Zone traffic

| OVERVIEW | |
|-----------------|---|
| VCAserver | Industry-leading Deep learning video analytics software. |
| Channel Support | Up to 12 Channels when using the deep learning object tracker at 6fps , or up to 4 channels of behaviour analytics at 12fps |
| Event Rules | Intrusion detection, Tamper detection, Enter & exit filters, Appear & Disappear filters, Stopped filter, Dwell filter, Direction filter, Counting, Zones & lines, Speed filter, 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 |
| RetailTrend | On-premise or cloud reporting solution. |
| Features | Footfall, Zone Traffic, Direction map, Traffic and Dwell Heatmaps |



| SYSTEM | ABP301 series | ABP302 series | PORTS |
|------------------|--|--|---|
| Core Module | Orin Nano 4GB | Orin Nano 8GB | USB 2 x USB 3.1 Gen |
| GPU | 512-core Ampere, with 16 Tensor Cores | 1024-core Ampere, with 32 Tensor Cores | Video (GPU) 1 x micro HDMI |
| System Drive | 250GB, M.2 NVME | Up to 500GB, M.2 NVME | Network 2 x 1 Gigabit RJ-45 |
| Services | VCAserver Optional: RetailTrend, VCAforensics | | Operating Temperature 0°C to 50°C (32°F to 122°F) |
| Operating System | Ubuntu 22.04 LTS Desktop | | Operating Humidity 20% ~ 85% RH |
| Power | DC 12V/5A (1 x DC power jack) Max: 1.5A(18Watt) | | Dimensions 128.5mm(W) x 39.1mm(H) x 79mm(D) |
| Color & Material | Black/Silver & Metal | | Weight Approx. 350g |

| PARTS LIST | |
|------------|---|
| ABP301-4 | Video Analytics Bridge, 250GB, up to 4 channels* analytics & RetailTrend, or 1 channel behaviour @ 12fps |
| ABP301-8 | Video Analytics Bridge, 250GB, up to 8 channels* analytics & RetailTrend, or 2 channel behaviour @ 12fps |
| ABP302-12 | Video Analytics Bridge, 250GB, up to 12 channels* analytics & RetailTrend, or 4 channel behaviour @ 12fps |
| ABP302-FS | Video Analytics Bridge, 500GB M.2, up to 9 channels with VCAforensics (Based on using Deep Learning People Tracker @ 6fps) |

*Based on using Deep Learning Object Tracker @ 6fps

