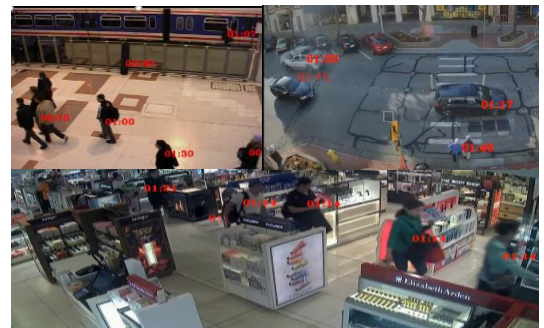AvidHawk™ is an industry leading technology for Video Summarization, that allows users to review hours of video in minutes. It enables simultaneous presentation of events that have occurred at different times in one frame, which leads to the review of hours of video footage in few minutes.

AvidHawk™ fuses Deep Learning and Computer Vision technologies to make video footage searchable with efficient storage, quick browsing, and fast check of large collection of video data without losing important events.

AvidHawk™: Automatically extracts objects from the original video. It superimposes objects on a stationary background, simultaneously displaying events that have occurred at different times, with the ability to link back to original video. The result is a short video clip that fully preserves the viewer's ability to analyze the scene, and to rapidly pinpoint objects by appearance such people, vehicles, handbag or abandoned luggage.

AvidHawk™: Supports multi-camera search at the same time, and it could analyze video either directly from VMS or file-based sources.

AvidHawk™ In Traffic Flow Monitoring:

AvidHawk™ Summarizes car flow in streets to help security and operations authorities in identifying specific events or looking for specific cars rapidly as it captures an image for any activity of a moving object in the areas under surveillance.
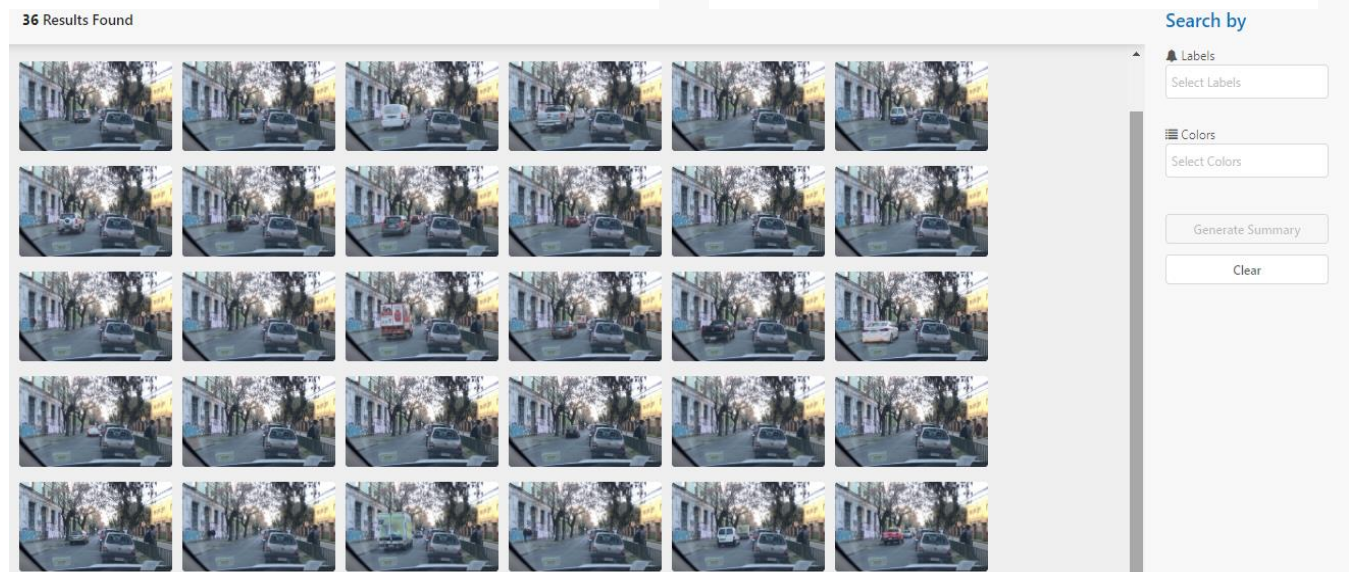
The below images show AvidHawk™ screenshots when used for car flow monitoring:
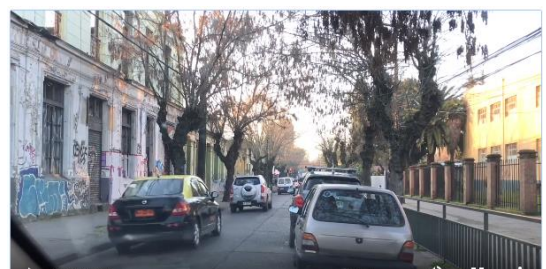

Original Car Flow Video

Summarized Car Flow Video

Activity Searching View

When a AvidHawk™ user wants to locate specific even or object such as all black cars moving, he/she can enter his/her searching criteria into AvidHawk™ user interface and get the results instantaneously where he can also check the original video starting 2 seconds in advance to the occurrence of that event.

AvidHawk™ In Retail Stores:

AvidHawk™ helps retails stores operational and marketing teams to summarize customers' journeys inside stores and to produce short clips that cover customers' interactions with different products on the store floor.
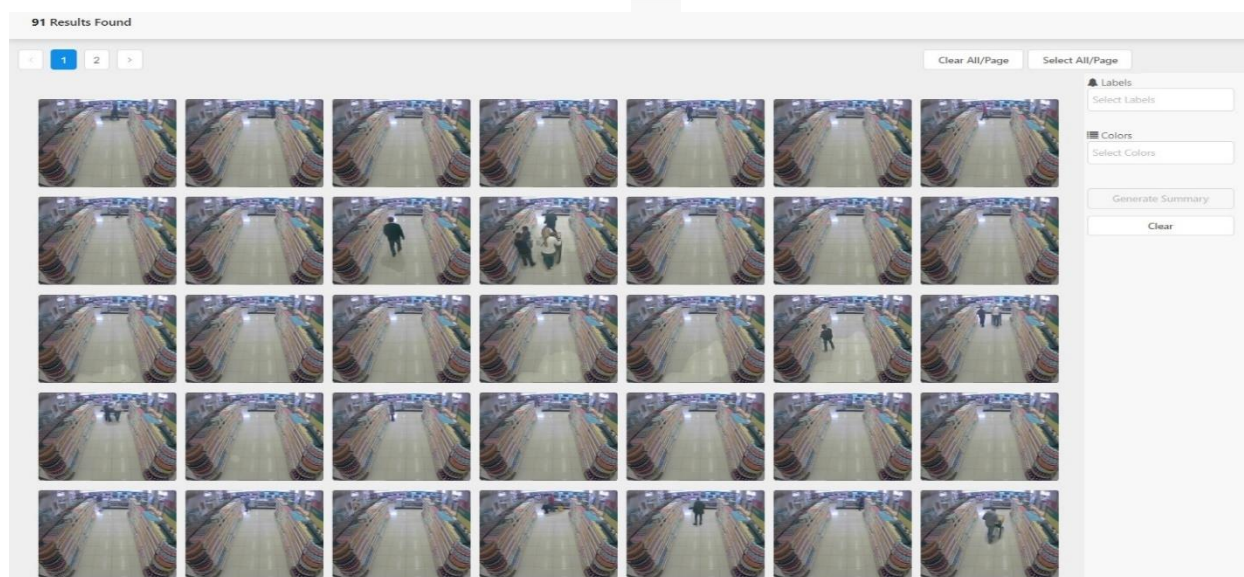
The below images show a snapshot of AvidHawk™ at a retail store.

Original Retail Store Video

Summarized Retails Store Video

Activity Searching View

When combined with AvidBeam retail analytics, AvidHawk™ more insights could be revealed including shopper demographics, product interaction, visitor paths and dwell time to optimize store layout, product placement and customer experience

AvidHawk™ In Crowded Public Areas:

AvidHawk™ is a world class solution in postmortem investigations, for instance you can easily search for abandoned luggage which could contains dangerous materials, or you may suspect people with black backpack.
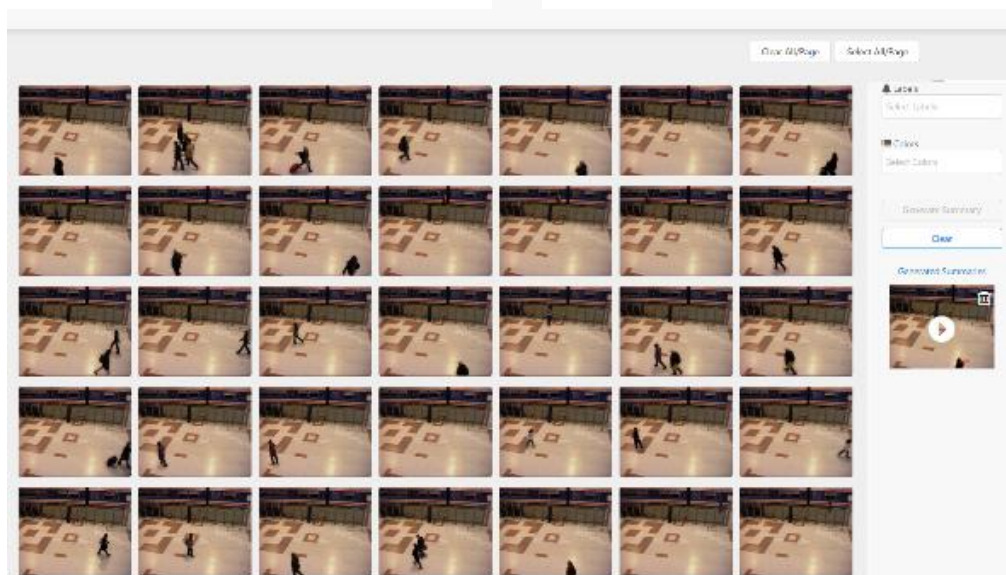
The below images show a snapshot of AvidHawk™ at a train station.
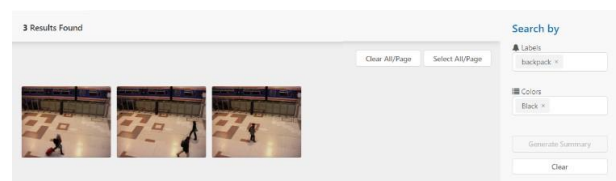

A Train Station Video

A Train Station Summarized Video

Activity Searching View

AvidHawk™ activity searching view could be used to identify unique objects or events such as searching for a person with a black backpack as shown here. This is very informative for rapid after the fact investigations as it saves the needed time and efforts of the investigation teams.

Searching Criteria	
TIME RANGE	Limit search to a specific time segment
SOURCE	Limit search to a specific video file or video source
Classes	Select Classes based on their category or their specific member objects: Class Categories: People, Two-Wheeled Vehicles, Other Vehicles, and Animals People Class: Person Two-Wheeled Vehicle Class: Bicycle and Motorcycle Other Vehicles Class: Car, Truck, Bus, Train, Airplane, and Boat Animals Class: Dog, Cat, Bird, and Horse
ATTRIBUTES	Select Attributes within a Class to further refine the search: Backpacks, Handheld Bags, Suitcases, umbrella, stroller, mask
COLORS	Brown, Red, Purple, Pink and Black
AREA	Identify objects included within a polygon area
TECHNICAL SPECIFICATIONS	
SUPPORTED RESOLUTION	480p: 1080p
SUPPORTED FRAME RATE (FPS)	8-30 frames per second
SUPPORTED VIDEO FILE FORMATS	Most known standard video formats (MPEG4 is preferred)
SUPPORTED CODECS	
FILE-BASED Search	Multi-file videos or single file videos
VMS Support	Most known VMS
SUPPORTED CAMERA TYPES	Fixed cameras that are ONVIF compliant and 1MP or above.
ADMINISTRATION AND MANAGEMENT SPECIFICATIONS	
PORTS & PROTOCOLS	HTTP/HTTPS: 7777

AvidBeam

AvidBeam Technologies is a leading provider of video innovative solutions. AvidBeam solutions focus on analyzing video Big-Data to extract insightful business & security information. AvidBeam was nominated by CIO review magazine as one of the 20 most promising Video Analytics vendors worldwide for AvidBeam Open Video Platform that extracts real-time business intelligence information from Video Big-Data sources in real-time. AvidBeam won the grand prize for the best AI company competition organized at CES Exhibition 2018 which was held in LAS Vegas Jan. 2018. AvidBeam team developed and delivered several Video analytics projects in a diversified verticals and geographies. AvidBeam developed a tool that Interacts Intelligently with video sources and translates video contents into real-time visually-attractive intelligence information. AvidBeam Smart City Solution covers crowd Intelligence, Early-Warning System, and Video Fast Search for rapid events detection. AvidBeam's technology strengths are based on world-class development team composed of video architects, software engineers and computer scientists with a proven track-record in technologies such as media streaming, videoconferencing, image processing and Big-Data Analytics

www.AvidBeam.com
info@AvidBeam.com