

AVIDBEAM TECHNOLOGIES

# AvidHawk

## An Offline Forensic Solution



# AvidHawk

A Fast Video Search and Summarization Solution. Allows Users to Review Hours of Video in Minutes.

- 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.

## Fast Video Search Solution

- Allow clients through the web interface to enter their customized queries and produce a summarized video of the search results.
- Limit search to a specific video file, video source, or a specific time segment.
- Search on objects based on their class categories, such as people, Two-Wheeled Vehicles, Other Vehicles, and Animals
- Support Color Searching
- Identify Objects Included Within a Particular Region of Interest



## 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.



## AvidHawk

# In Retail Stores

AvidHawk™ helps retail 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.



When combined with AvidRetail™, AvidHawk™ could reveal more insights about the store customers. Such as customer demographics, customer journey, high and low concentration areas within the store,, and dwell time to optimize store layout, product placement and customer experience

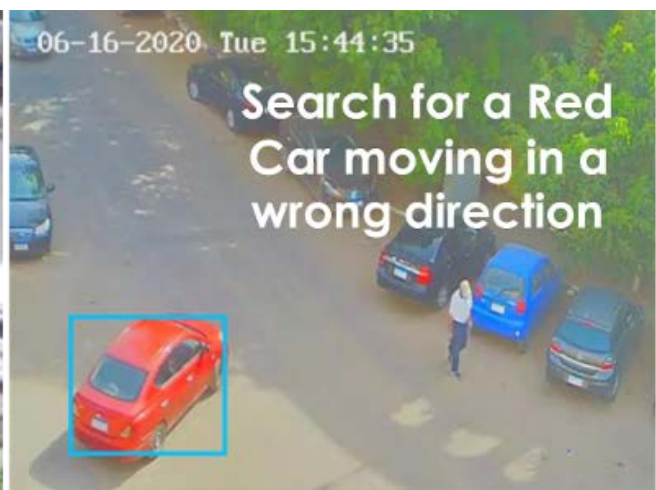
## AvidHawk

# In Crowded Public Places

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 search for suspicious people with a black backpack.



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.



AvidHawk™ enables the system user to locate a specific event or object by entering his searching criteria into the user interface. The system will output results instantaneously where he can also check the original video starting 2 seconds before the occurrence of the event

AvidHawk in Action

# Technical Specifications

<b>Searching Criteria</b>	
<b>Time Range</b>	Limit search to a specific time segment
<b>Source</b>	Limit search to a specific video file or video source
<b>Classes</b>	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
<b>Attributes</b>	Select Attributes within a Class to further refine the search: Backpacks, Handheld Bags, Suitcases, umbrella, stroller, mask
<b>Colors</b>	Brown, Red, Purple, Pink and Black
<b>Area</b>	Identify objects included within a polygon area
<b>Technical Specifications</b>	
<b>Supported Resolution</b>	480p: 1080p
<b>Supported Frame Rate (Fps)</b>	8-30 frames per second
<b>Supported Video File Formats</b>	Most known standard video formats (MPEG4 is preferred)
<b>Supported Codecs</b>	
<b>File-Based Search</b>	Multi-file videos or single file videos
<b>VMS Support</b>	Most known VMS
<b>Supported Camera Types</b>	Fixed cameras that are ONVIF compliant and 1MP or above.
<b>Administration And Management Specifications</b>	
<b>Ports &amp; Protocols</b>	HTTP/HTTPS: 7777

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AvidBeam® is an AI video analytics company that pushes the boundaries of video processing capabilities with big data distributed architecture. Its expertise in computer vision, deep learning, visualization and neural networks enable AvidBeam® to offer scalable video analytics solutions for security, safety and business intelligence applications to its customers. AvidBeam team delivers video processing and analytics products cutting across various verticals and geographies including Smart Cities, Smart Retail, Transportation, Oil & Gas, Healthcare, Education, etc in the Middle East, Gulf and North America. Headquartered in the Netherlands with teams in the US, Egypt and Saudi Arabia



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