Vaidio® AI Vision Platform
CROSS CAMERA TRACKING

VAIDIO®
BY IRONYUN

Automatically find individuals across large video networks, using the power of AI to match, trace, and track
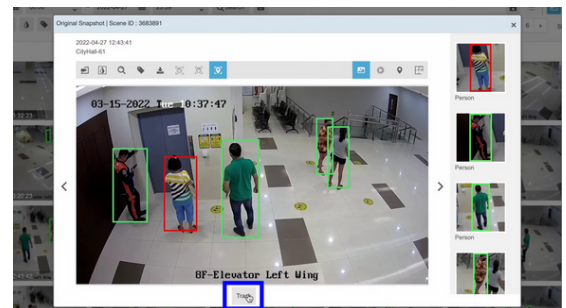
The Challenge

Conventional cross camera tracking solutions provide security and law enforcement personnel with a method for identifying and tracking persons of interest in forensic video footage. Lacking the power of AI, however, these solutions typically require personnel to preload a list or database of known suspects to deliver accurate results. Most AI solutions also require a clear facial match to track an individual across multiple cameras—a challenge when the person is not looking directly at the camera, in locations where Face Recognition isn't permitted, or when poor lighting or resolution prevent proper accurate identification. Tracking can be particularly problematic in high-density environments such as crowded city streets, large entertainment venues, malls, casinos, hotels and more.
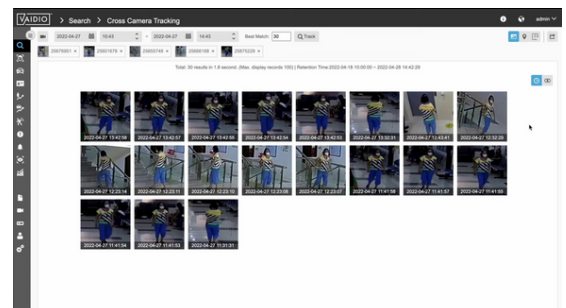
The Solution

Vaidio Cross Camera Tracking (CCT) uses advanced Vaidio AI to track a person of interest as they move from one camera view to the next across an entire network of cameras, inside and outside.

With Vaidio CCT, users click on a person of interest – and Vaidio will calibrate to that specific image and attributes, including the pattern of the person's clothing, physical stature, hair length, and associated wearable objects such as bags, backpacks, briefcases, packages, envelopes, pets, etc. Vaidio will then accurately surface every instance of that specific person across the entire camera network, with the option to draw their path across cameras through time. Once an initial CCT search is run, Vaidio CCT can also be further tuned by eliminating any inaccurate matches, adding accurate detections, and running the search again.
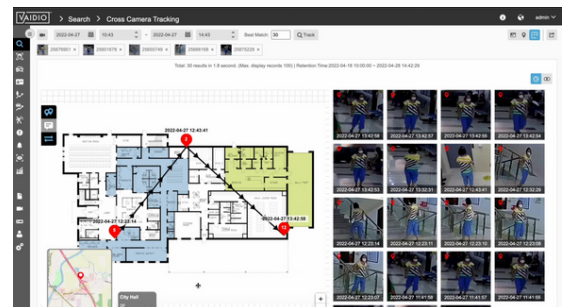
Vaidio Cross Camera Tracking supports fast, accurate forensic searches and investigations to help users identify and locate the 'needle in a haystack' by tracking an individual and their path to piece together actual events—without the use of Facial Recognition, and without the need to pre-load a target list or database. Vaidio CCT offers users the ability to instantly identify a subject – and accurately track them across the full camera network. Applications include law enforcement (identifying and apprehending suspects), hospitality (locating missing children/persons at hotels, entertainment venues, and retail stores), and much more.

Find the person of interest and hit "Track"

Vaidio pulls up all instances of that person

See the person's path chronologically on a map

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Features

☐ Instant identification of subject of interest without pre-training or pre-loading a database

☐ AI-enabled forensic tracking across entire camera networks

☐ Tracking across multiple cameras without the use of Face Recognition (FR)

☐ Map view (GPS and indoor floor plan) of subject path across the network

☐ Automatically monitors activities across any all cameras —from several to thousands

☐ Supports data sharing via Excel export

Benefits

☐ Improved ability to quickly and accurately identify and track person(s) of interest

☐ Gain valuable insights into the movements of a person in indoor and outdoor environments

☐ Ability to predict path trajectory to support apprehension of suspects in real-time

☐ Increased return on investment from existing camera and VMS infrastructure

☐ Additional operational efficiencies when other Vaidio video analytics are used

"We had a competitive AI-based system connected to 200 cameras. Each camera had an average of 10 false alerts a month--about 2,000 false alerts a month. We replaced the old system with Vaidio but kept the same cameras. Vaidio reduced our false alerts from 2,000 per month down to 10 total per month--a 99.9% reduction. Amazing."

- International Media Company

NVIDIA.

"Out of hundreds of solutions we've worked with, Vaidio is one of a handful that ranks highest in terms of platform maturity and driving real-world customer value."

- Jumbi Edulbehram, Global Business Development, AI-City, Nvidia

Architecture

VIDEO, THERMAL, SENSOR → VAIDIO ↔ VAIDIO UI WEB / APP / VMS

About IronYun and Vaidio®

IronYun's SIA award-winning Vaidio Platform offers more than 30 advanced AI video analytics functions to bring intelligence and accuracy to existing camera and video infrastructures.
Our mission: to build a safer, smarter world by helping our customers improve security, safety, health, and operational efficiency.

MADE IN USA

NDAA Compliant