DIGIFORT NEURAL ANALYTICS

Powered by VCA Applied Intelligence

NeuralAnalytics

SIMPLE | POWERFUL | TRUSTED

2026

NEURAL ANALYTICS

Next-Generation AI Analytics with Precision Tracking

Harness the power of advanced deep learning with our latest AI-driven analytics, featuring four precision trackers that are essential for applying analytical rules effectively. Accurate tracking is the foundation of reliable analytics—without it, rules become ineffective.

Our state-of-the-art deep learning engine, optimized for NVIDIA GPUs, dramatically reduces false alarms by filtering out irrelevant events, ensuring that only critical activities are detected and flagged with precision.

- Deep Learning Object Tracker
- Deep Learning Skeleton Tracker
- Deep Learning People Tracker
- Deep Learning Fisheye Tracker

Applied Intelligence

Digifort Neural Analytics empowers businesses and organizations with precise, real-time insights into visitor and workforce behavior, delivering a transformative edge in situational awareness. Leveraging advanced deep-learning algorithms, our system can detect subtle movements within video footage, providing a powerful “exception” reporting tool that flags unusual activity, enabling security teams to act swiftly—whether dispatching personnel or alerting emergency services.

Metadata Library

Digifort makes all metadata available, enabling you to make the best use of the data by creating specific reports & interactions e.g. forensic search & string search.

Metadata Search Engine

Digifort’s metadata search engine leverages AI-driven metadata to accelerates forensic investigations, reducing analysis time from hours to mere minutes—or even seconds.

Color **Size** **Speed** **Gender** **Attributes** **Direction** **Type of Objects**

DIGIFORT NEURAL ANALYTICS

Real-Time Intelligence for Enhanced Security

Digifort Neural Analytics empowers businesses and organizations with precise, real-time insights into visitor and workforce behavior, delivering a transformative edge in situational awareness. Leveraging advanced deep-learning algorithms, our system can detect subtle movements within video footage, providing a powerful “exception” reporting tool that flags unusual activity, enabling security teams to act swiftly—whether dispatching personnel or alerting emergency services.

Deep Learning Object Tracker

Deep Learning Object Tracker:
Detects People, types of vehicles and selected objects.
Handles dense and busy scenes.

Features:
People, Bag, Car, Bike, Motorbike, Bus, Truck, Van, Forklift, Animals, Low Light/IR, Color Change.

Deep Learning Skeleton Tracker

Deep Learning Skeleton Tracker:
Classify only what you’re interested in.
Enables behavior detection (e.g. fall detection, PPE, hands up).

Features:
People Tracker, 18 Body Points, Behavior Analytics, Face Detection, Busy Indoor Scenes.

Deep Learning People Tracker

Deep Learning People Tracker:
Accurate internal human tracking with no calibration needed for your scene.

Features:
People, Hands & Shoulders, Counting, Occupancy, Detection, High Density Scenes.

Deep Learning Fisheye Tracker

Deep Learning Fisheye Tracker:
Track people in fisheye camera views without the need to de-warp the image.

Features:
For Fisheye Images, Non De-warp, People Metadata, Counting, Dwell, Liotering.

AI-ENHANCED ANALYTICS

Revolutionizing Analytics with AI-Enhanaced Video Monitoring

Forensic Search

Digifort video forensic search solutions help provide reliable evidence to prove cases and support investigations. Our video analytics software is constantly extracting metadata from every camera connected, from every frame, every second, building up an extensive database of metadata about objects in the camera scenes, so that you have more information to solve a problem.
Protecting both employees and employers from risks and costly non-compliance penalties.

Industrial Analytics

Ensuring compliance with personal protective equipment (PPE) requirements is vital for workplace safety, particularly in high-risk industries such as construction, manufacturing, and healthcare. Employers must ensure that workers consistently wear the necessary protective equipment—from helmets and goggles to gloves and high-visibility vests—not only to prevent workplace accidents and reduce risks of injury but to uphold safety regulations too.

Examples of Forensic Search for Video Analytics

Recording images and video evidence in real time

Detailed forensic search options, including object properties and appearance search

User-friendly interface to search query results.

Provide More Detail **Improve Efficiency** **Deliver a faster response**

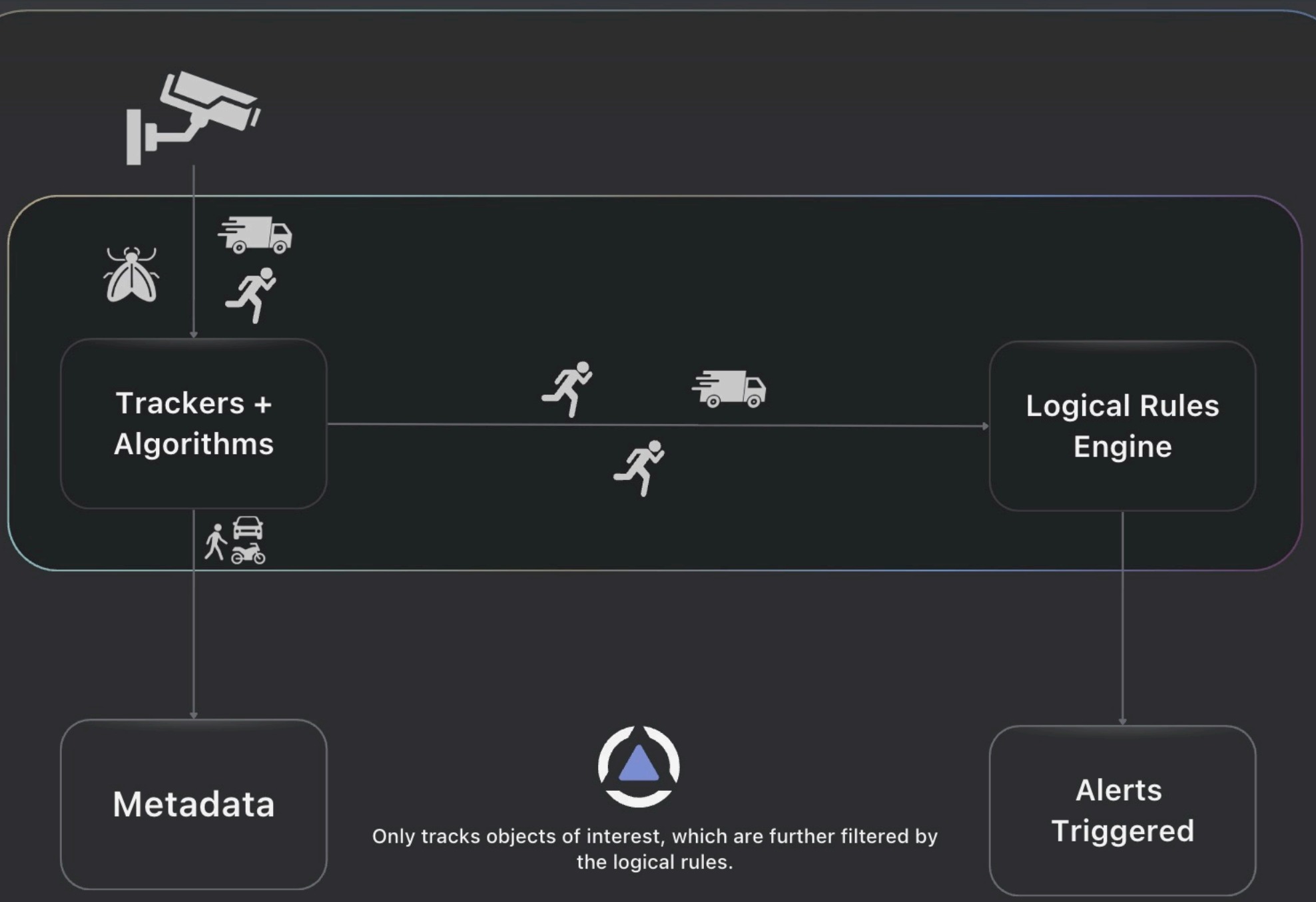
Harnessing AI for PPE Monitoring and Safety Compliance

- By employing machine learning and computer vision, these systems continuously analyse video footage to identify workers' PPE usage and alert managers to non-compliant behaviour.
- Real-time PPE monitoring powered by AI allows for instant identification of missing or improperly worn equipment, enabling rapid responses to prevent potential incidents and fostering a culture of safety across high-risk environments.
- Computer vision technology within the AI-enhanced video monitoring system recognises specific PPE items—such as hard hats, protective gloves, and high-visibility clothing—automatically logging compliance data.

TRACKERS & RULES

Decision Making by; Trackers & Rules

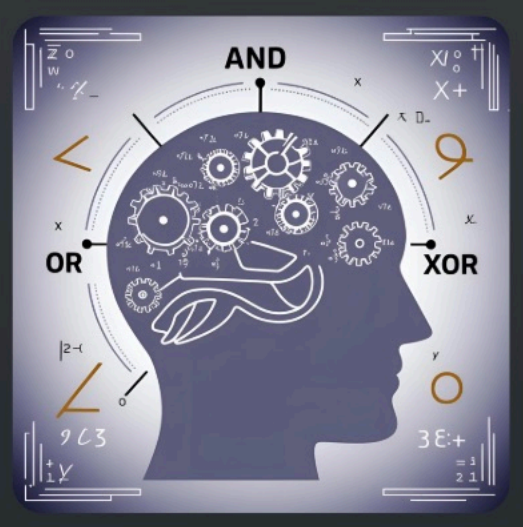
Trackers operate seamlessly within monitored environments, following the movement of individuals, vehicles, and objects in real time. This continuous monitoring ensures that no activity goes unnoticed, enhancing situational awareness and response times. At the core of our system lies a robust framework of customizable rules that define acceptable behaviors and actions. From intrusion detection to loitering alerts, these rules empower operators to receive instant notifications for specific scenarios, enabling proactive measures against potential threats.



- Specify optimal tracker for scenario
- Draw zones and define rules (if required)
- Receive events and metadata into Digifort and define action or perform search

Create Your Own Rules

- Combination of rules and filters.
- Applicable to every analytics use case.
- Rules combined using logical operators:
  - And (two events happen at the same time)
  - Or (one or another event happens)
  - Previously (an event happened in the past within a set period of time)
  - Continuously (an event happened for at least a set period of time)
  - Not (an event happened but another event did not happen)



NEURAL ANALYTICS

Logical Rules

logical rules provide a framework to combine analytic's comprehensive rules and filters to detect complex events in a video stream.

Intrusion Detection:
Detects when an object, person or vehicle is inside or crossing a zone or a line.

Dwell Detection:
Objects that dwell inside a zone for longer than pre-defined amount of time.

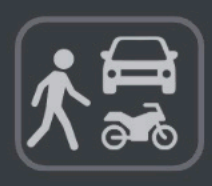
Directional Detection:
Objects that travel in the configured direction through a zone or over a line.

Removed Object Detection:
Significant objects are detected when carried out of a zone.

Abandoned Object Detection:
Detects the abandoning of an object in a predefined zone.

Object Counting:
Up to 40 on-screen counters linked to the detection rules.

Appear & Disappear Filters:
Detects objects on the basis of a pre-defined intensity of colors.



Object Classification:
Object classification is based on properties extracted from the object.

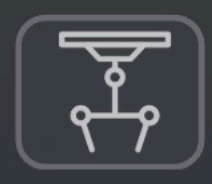
Stopping Detection:
Objects that are stopped inside a zone for longer than the defined amount of time.

Self 3D Calibration:
It does not require any camera calibration such as heights and field of view.

Tamper Detection:
Detects if a camera is moved, de-focused, covered or tampered with in any way.

Shake Resilient Tracking:
When there is a slight movement in the cameras due to wind or vibration.

Fall Detection:
Detect if a person is fallen suddenly into the ground.



Skeleton Tracker:
Skeletal based tracking a person delivers highly accurate and reliable tracking.

Tailgating Detection:
Detect if a person is fallen suddenly into the ground.

Enter/Exit Detection:
Objects are detected entering & exiting the zone defined.

People Tracker:
Highly accurate people tracking, counting, and queue management.

Thermal Imaging Camera:
Digifort Neural Analytics works on Thermal imaging cameras for security, fire prevention and temperature monitoring applications.

CONTACT US

We're Here for You Worldwide

Wherever you are, our international teams are ready to assist you. Please find the contact details for your nearest office below.

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