



Smart Analytics Module

CymbIoT

Analytics Module

VISUAL | AUDIO | DATA

The CymbIoT Analytics Module offers a series of integral analytics packages- comprising the world's leading visual content analysis capabilities, and a range of cutting-edge sound analytics: from License Plate Recognition, through Face Recognition, to audio identification of gunshots, screams, and panic.

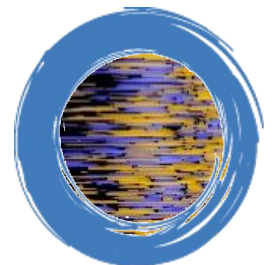
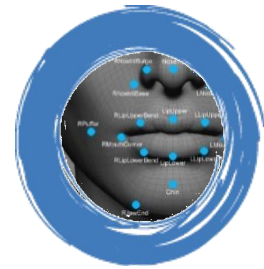
The CymbIoT C&C software integrates with any existing surveillance infrastructure (cameras, microphones, gates, access control systems, etc.). And applies selected analytics to the data produced by the installed systems.

CymbIoT has three (3) dedicated Analytics modules:

Visual Analytics – including Face Recognition, License plate Recognition, Heat Maps, and more.

Audio Analytics: identify gunshots, distress sounds, glass breaking – and more.

Data Analytics: Analyze and present data using our Reports module, create complex events, and utilize our Executive Dashboard.



AUDIO ANALYSIS APPLICATIONS

CymbloT's advanced audio analytics is a reliable method of automated detection designed to combat crime and antisocial behavior, based on the well-known statistic that 90% of all incidents involving physical aggression are preceded by verbal aggression. CymbloT's advanced audio analytics also targets automated detection of other sounds such as motorized traffic, gunshots, breaking glass, graffiti, etc. – supporting Smart City and traffic management solutions, as well as parking and accident management.



Public Safety

In public locations (train stations, streets, malls), audio analytics provide both additional data supporting Visual Analytics – and stand-alone identification of public danger events: from gunshots to glass breaking.

Security

Whether in front offices, sales floors, or other locations where service providers and valuables meet the public – audio analytics identify aggression as well as aggressive actions (breakage, smashing), alerting security before employees or property is damaged.



Traffic

Able to identify certain motor sounds (scooters) as well as cars honking and the sounds of an accident, audio analytics support visual analytics and provide independent data when managing traffic incidents and parking areas

Healthcare

In hospitals, elder care facilities, and hospices – audio analytics provide discreet monitoring capabilities, identifying distress sounds, shouts, and other aural cues denoting emergency.



MODULE CAPABILITIES

CymbloT's Analysis module utilizes advanced algorithms to imitate the voice recognition process of the human ear by identifying a much wider range of characteristics than traditional audio analysis, which is based on volume and time thresholds.

CymbloT's audio analytics support identification of different types of sounds (such as human voices), and specific characteristics of these sounds (panic, aggression) – even at low volumes, against ambient noise, or in a crowd.

CymbloT's audio analytics module can integrate and utilize any IP camera with an integral microphone, and apply its analysis algorithms to the data received from those sources, enabling event identification and action triggering.



Gunshots & Explosives

Immediate identification of gun/rifle shots as well as explosives of all types.



Car Alarm

Identify and alert when car alarm/s are triggered.

Aggression

Identification of aggressive human voices at low volume.



Scooters

Identification of scooter engines, supporting capture of populations using this specific transport.



Glass Breaking

Windows, bottles, etc. – early alerts for accidents or rioting.



Graffiti

Identifies graffiti actions from initiation sounds.



Panic

Identification of panicking human voices at low volume.

Security



Event

Tag artist attempts graffiti on public monument.



Detection

Audio analytics identify sound of attempt.



Response

CymbloT C&C analyzes data and implements procedures:.



Directs cameras to event



Turns on projectors and uses PA to scare off vandals.



Sends security

Traffic



Event

Fight breaks out in hotel entrance.



Detection

Audio analytics identify aggression.



Response

CymbloT C&C analyzes data and implements procedures:.



Directs cameras to event



Sends security



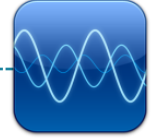
Raises alert levels in all entrances & exits.

Traffic



Event

Elderly patient shouts for help while walking.



Detection

Audio analytics identify distress sounds.



Response

CymbloT C&C analyzes data and implements procedures:.



Directs cameras to event



Alerts urgent care team.



Alerts staff.



CymbIoT
Making IoT Smarter

CymbIoT's mission is to design, implement and deliver advanced Internet of Things (IoT), Video Management Solution (VMS), and Command & Control (C&C) platforms. We empower end users to configure and manage integrated networks of all types and scales - from Smart and Safe Cities, through Transportation Hub security, to Smart Buildings and Enterprise management.

With millions of sensors across numerous verticals using our products to deliver actionable intelligence and real-time response capabilities to customers worldwide - we have the experience, know-how and technology to deliver real world solutions that work.

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