

Dedicated to MOBOTIX Cameras

Stream2IQ is the first and only Deep Learning dedicated to Mobotix products. It brings AI to any camera, allowing them in a all-in-one solution :

- To detect and classify more than 90 object categories on any context,
- To detect vehicle type, make, model and licence plates (ALPR).
- To detect people posture, expression,
- To perform face recognition,

With Stream2iq, your CCTV system becomes intelligent and offers advanced functions for security and retail application, perimeter detection, industrial process monitoring, ...

Stream2IQ comes with its own application designer included scripting language and API. An embedded spreadsheet (Microsoft Excel compatible) allows to create complexe workbook including graphs for designing reports.

MOBOTIX MxmanagementCenter 2.1 integration.

Stream2IQ runs as a service for exchanging data and metadata using the Generic Transaction Interface. A virtual Mobotix camera stream analytics result as a video stream.

An unlimited scope of application

Listing possible applications with Stream2IQ is simply impossible. We can summarize things in a simple way. From now on, your CCTV cameras will automatically alert you as soon as a control rule is verified : for example, "Alert me when a blue car is parked in front of the entrance".

You may retrieve any recordings by metadata indexed. So it's easy to select all recordings "with a blue car and a bicycle present in a defined region of interest.

In a retail application, it will be easy to obtain real-time statistics of the number of people entering the store or the length of the queue at the checkouts.

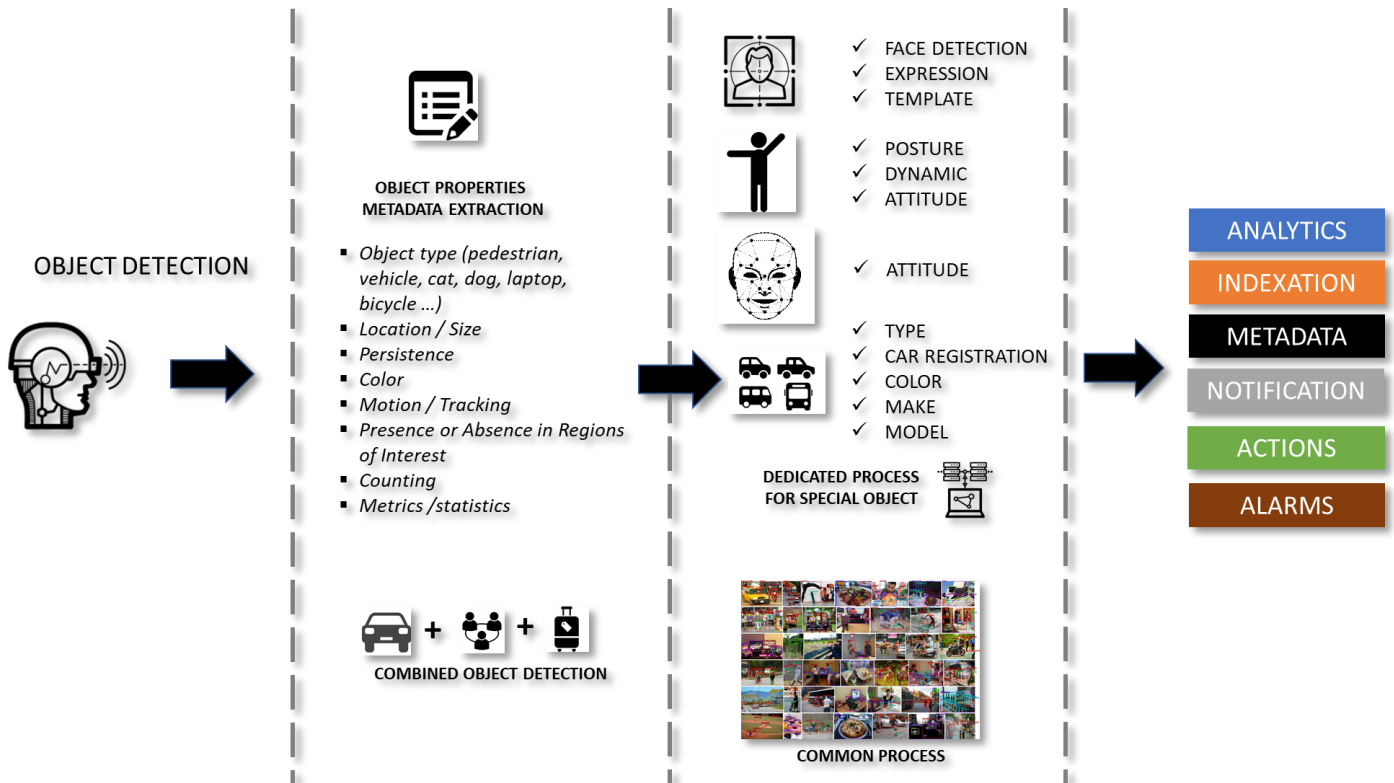
These are just simple examples, but much more complex issues can be dealt with.

Motion is not a commitment.

As most part of video analytics application need motion detection for working, Stream2IQ treats motionless objects like moving objects in the same way.

It is particularly useful when you want to count the available parking spaces or detect an abandoned baggage in an airport terminal.

Technical Specifications



Available Module

- Multiple Neural Network Engine
 - (Tensorflow, Darknet, Caffe, Torch, R-CNN, SSD ...)
- Mean Average Detection (mAP-50) 50/22ms
- 90 Object categories detector
- Vehicle classification
- Automatic licence Plate Recognition
- Posture Detection
- Expression detection
- Face Recognition



Available as :

- Add_on Software to MxManagementCenter
- Standalone Software
- IP Switch Appliance
- Virtual Server (VMWare ESXi)



Required Configuration

- 17 Processor – 8 Go RAM (16 Go recommended)
- CPU NVIDIA (RTX series) recommended
- 250 Go HD

Configuration	Fps	Nb of Camera
CPU i7 / Standard GPU	3 Fps	Up to 8
CPU i7 / 1 x Nvidia RTX 2080Ti	20 Fps	Up to 24
CPU i7 / 4 x Nvidia RTX 2080Ti	30 Fps	Up to 100

Image preprocessing

- resizing, cropping, rotation, histogram + 25 Image filters
- Up to 30 Region of Interest per stream

Application Integration

- Scripting Language
- API / HTTP API
- Up to 30 outgoing stream (Mjpeg/RTSP)
- Integrated Spreadsheet
- SQL Database (SQLite, MySQL)

Robotix Support

- MxManagementCenter GTI.
- MxPEG Codec
- Camera HTTP/API & CGI
- IP Notify
- MxMessage
- Events and Actions interactions
- T2x Doorstation

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