CATHEXISVISION 2021 NEW FEATURES

CathexisVision 2021 offers several new features and enhancements that improve the product capability and overall operational effectiveness of your solution. Below is a summary of the major items you will find in this latest release.

Video Analytics/AI Enhancements

Updates to CathexisVision's powerful range of video analytics make the system even more **efficient** in response to the unique challenges of video surveillance. Cameras are often positioned outside, exposed to the elements, or indoors, in hard-to-reach areas. We have therefore updated our advanced analytics algorithms to **reject false positives and detect anomalies** (such as spiders crossing the camera lens) to prevent them causing a false trigger. We have also added options to offload analytics processing to selected Graphics Processing Units, allowing users to operate **more algorithms** on the system simultaneously.

Face Redaction

We value **data privacy** and want to support the measures our clients take to comply with relevant data **protection regulations**. The CathexisVision Archive viewer now provides the option for faces to be **redacted when exporting** footage from an archive to MP4 format.

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Mask Detection

We have added features to CathexisVision to support **safety measures** aimed at preventing the spread of Covid-19. With the addition of **mask detection** to our analytics options, users can configure the system to trigger certain actions, depending on whether or not a person is detected to be wearing a mask.

Physical Distancing Algorithm
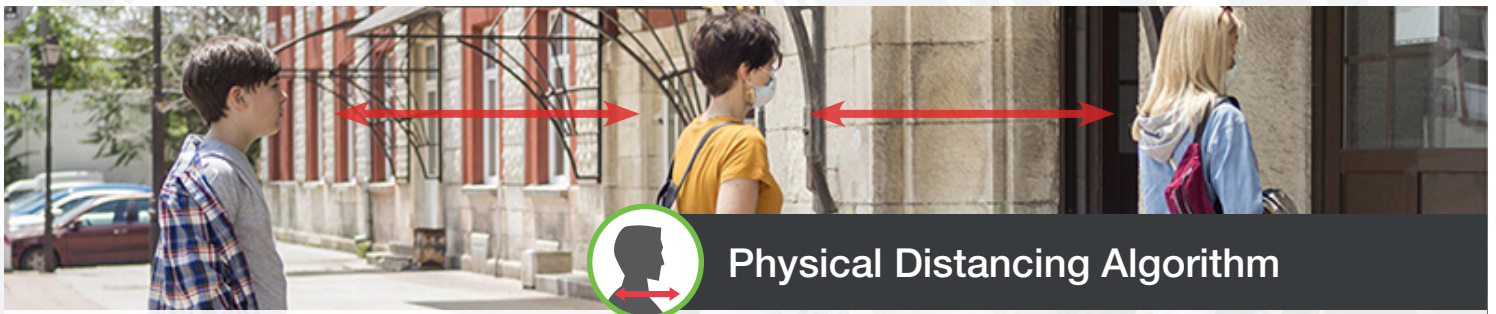
Physical distancing is a key step in lowering the risk of Covid-19 transmission. Another algorithm, **people proximity**, has been added to CathexisVision's analytics options. Using the latest functionality in CathexisVision, the software tracks activity using people proximity analytics, automatically identifying instances in which **people are closer than the configured distance.**

Occupancy Management

We have updated the API for object classification, adding an **occupancy trigger option** and the option to **export this information** to a third-party system. The are several benefits to being able to monitor occupancy and configure system actions based on occupancy in an area being above, below or matching the desired threshold – such as managing customer occupancy in retail settings, planning logistics in parking areas, or enacting Covid safety regulations.

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Temperature Monitoring

Another way that we have responded to the challenges of Covid-19 is through the addition of a thermal **face temperature algorithm** to our analytics suite. The temperature of specific **facial landmarks** can be taken, and temperature monitoring can be automated, limiting the risk of close contact between individuals. With a range of model and backed options, and customised overlays, thermal face temperature monitoring increases the efficiency and safety of your security solution.

Face Detection

Using CathexisVision AI, we have introduced our **Face Detection algorithms**, which are used for several purposes. On detection of a face, the system can be configured to trigger events, perform temperature readings on the detected face using integrated thermal cameras, and even export a thumbnail image of the face to third-party systems, such as face recognition platforms.
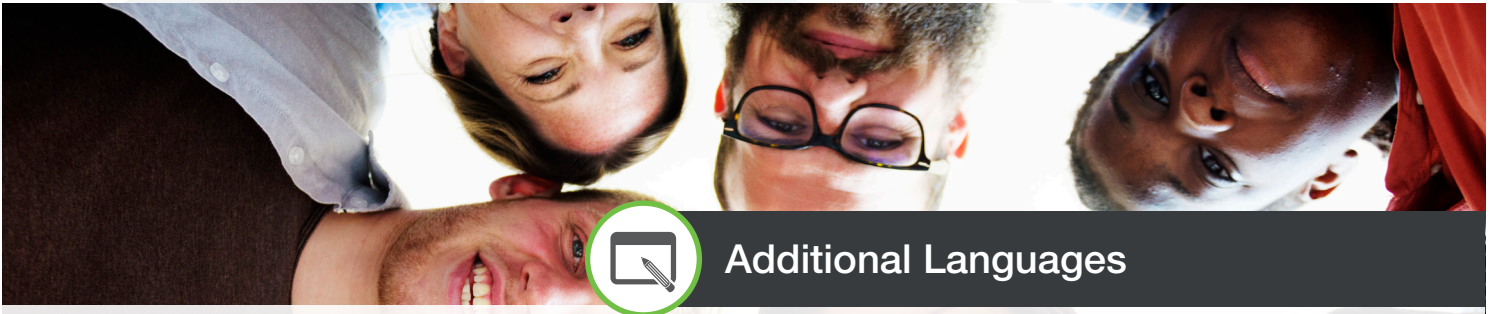

Video Wall Upgrades

To continue providing a user-friendly, optimised operational experience, we have upgraded the CathexisVision video wall to **enhance performance**. Our new architecture makes optimal use of CPU and GPU services offered by technology providers to reduce your hardware cost of ownership.

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Additional Languages

We provide security solutions for systems in **market sectors worldwide**, and continue to expand into more and more global markets. To support our clients across the globe, our software and documentation is available in multiple languages, and **new translations** are continually being added.

Enhanced ANPR

Two new features have recently been added to CathexisVision's already powerful ANPR offering:

- **Average speed measurement:** this enables us to record vehicle speed between two ANPR detection points. We store the vehicle speeds and associated video into our database and provide the ability to set speed thresholds for alerts/alarms.
- **Vehicle loitering:** trigger events based on a license plate not exiting an area within a given time period.
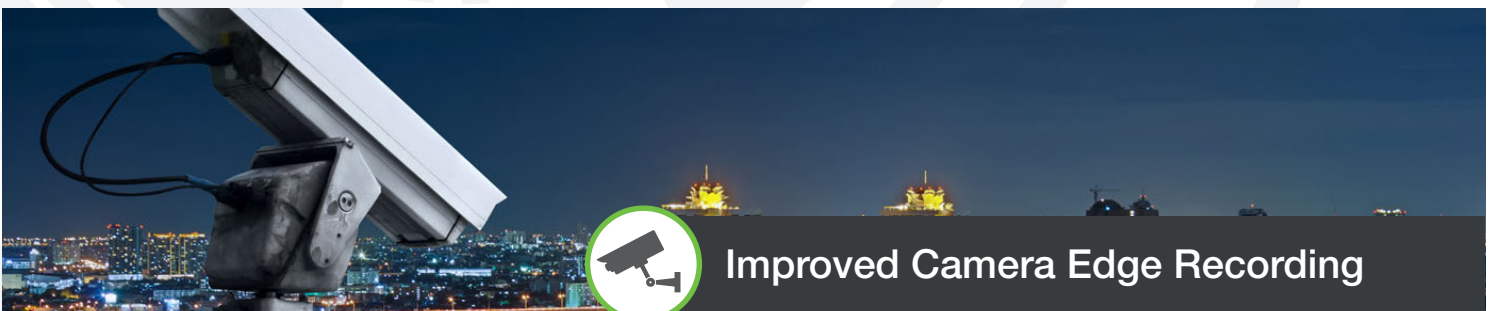
Improved Camera Edge Recording

The ability to record video to an IP camera's on-board storage ensures that **no video footage is lost** in the event of network infrastructure failure. Although CathexisVision has always the ability to manage and retrieve edge recordings, the solution has been enhanced by enabling CathexisVision to **automatically recover this footage** from the edge and **re-insert it into the primary database** when the system communication is restored.

New Third-party System Integrations

CathexisVision integrates with several third-party systems, and we are always developing new integrations. In 2021, the following integrations have been added:

- **Impro Access Control:** combining Impro's Portal Pro software and CathexisVision, this integration enables CathexisVision to receive information from Portal Pro. When an access control event is detected (such as a door being forced open, or a cardholder entering the premises), the user can define a range of actions. To enhance the options available, doors can be allocated to a group for triggering customised actions.

- **Grekkom Ngaro analytics:** the Ngaro software monitors camera activity. When an object is detected, the integration sends an alert to CathexisVision, which creates events and database entries for the duration of alarms. Operators can configure live events to trigger desired actions.

- **Mettler UC3 scale:** this point-of-sale integration connects the Mettler Scale UC3 device with CathexisVision, recording data and triggering CathexisVision events based on information received from the device. This integration brings together Mettler's weighing technology and CathexisVision's advanced features in a single platform.

- **Axis and Moxa I/O devices:** in both of these I/O integrations, the integration receives triggers from the device (Axis or Moxa) and creates CathexisVision events based on the data. Users can set unique actions based on these triggers. Both the Axis and Moxa I/O integrations link I/O technology and CathexisVision into a single, user-friendly solution.

- **OnDis gateway:** this integration is especially useful in retail settings, where stocks need to be monitored. In the OnDis Gateway integration, a scale on a shelf can be configured to send an alarm or report to an inventory system if an item is removed. Using this integration, retail outlets can decrease the likelihood of theft, and increase possible sales by keeping shelves stocked with products.

- **Stentofon intercom:** the integration displays device events in order to log calls. When there is a call on the intercom, an event is received and logged by CathexisVision. Selected cameras can be associated with the intercom. Operators can monitor events happening on-site or configure the system to set off actions in response to detected intercom events.

- **Cameras:** CathexisVision has integrated with several leading camera brands and developed updates and advanced features on existing camera integrations, such as the FFGroup LPR plugin on Axis and Mobotix cameras, support for the SentryWay ONVIFv2 driver, audio out support for Milesight cameras, and advanced settings on the Mobotix thermal driver.