

# intuVision® Solutions for COVID-19

## Re-Imagining Video Analytics to Stop the Spread

"We are thinking outside the box for solutions to help stop the spread of Covid-19 and ensure everyone's safety while essential businesses cope with remaining open and others to start re-opening"

*Sadiye Guler  
Founder, intuVision*



### Stop the Spread with intuVision VA

- **Face Mask Usage:**

Detect people not wearing face masks

- **Occupancy:**

Count people entrances and exits to control occupancy levels in stores

- **Crowd Density:**

Alarm if people are standing /gathering close to one another in public places

- **Wrong Way:**

Alarm if people move against one-way only aisles in the stores

### Benefits

- All-in-one solution for video analytics
- Savings in personnel time
- Easy integration with the Web API
- Output triggers for extended functionality
- Reliable operation with no day-to-day maintenance

intuVision VA helps stop the spread of COVID-19 with analytics for controlling the occupancy levels in stores, monitoring crowd density and loitering in public areas, detecting lack of face masks, and protecting patients from unsafe visitors in hospitals.

intuVision's output triggers can be customized to meet a range of functionality, such as audio alarms to warn and remind people of face mask use; red/green status lights or audio alerts to control occupancy levels in stores; or notifications for not maintaining social distancing in public places.

Equipment-at-a-Glance

Software: intuVision VA Retail and Face v. 12.0

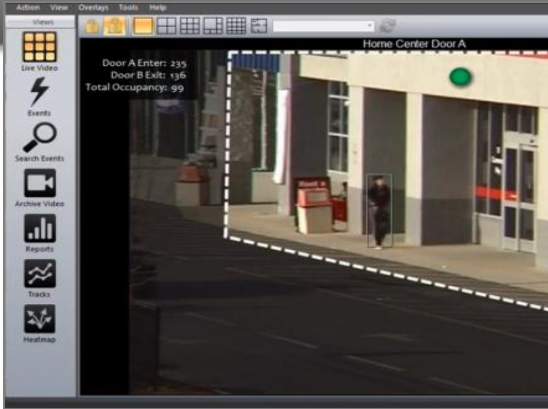
Hardware: IP cameras, off-the-shelf computers

## Face Mask Usage Monitoring

intuVision VA Face can detect people who do not have masks in retail environments, banks, and post offices to help decrease the spread of the virus.

### Sample Output Actions:

- Output trigger for audio warning of people without a mask;
- Interface with access control systems to lock doors, preventing entrance without face masks.



## Retail Occupancy

Building upon intuVision People Counting solution Retail Occupancy monitors shopper entrance and exits from multiple doors, displaying the total number of people in the store in real-time.

### Sample Output Actions:

- Activate an I/O device to control red/green status lights;
- Audio alert to ensure prompt guidance to customers.

## Crowd Density Detection

intuVision Crowd Density alarms if people are not following the social distancing guidelines of 6 feet apart. Low, Medium, and High density levels can be customized to the camera view with different action triggers configured for each density level.

### Sample Output Actions:

- Medium Density: audio alert with a warning message;
- High Density: strobe light along with sounding a buzzer.



## Wrong Way

intuVision Wrong Way detector, typically used in airports and other high security areas, can be used in retail stores to ensure customers follow single direction aisles to allow for safe shopping.

### Sample Output Actions:

- Audio alert to remind guests of single direction paths;
- Overview emailed to manager as feedback of sign efficacy.

# intuVision VA Feature Summary

**Unlimited event rules per license** – Largest set of event rules for Security, Retail, Traffic and Parking domains. Unlimited number of events per camera without additional processing overhead.

**Compound Events** : Templates to combine events from multiple cameras and 3<sup>rd</sup> party triggers.

**Event Queries, Reports, Heatmaps** : Queries and reports based on time period, camera, and event types, pie-chart, line, bar graphs, event comparisons over multiple time periods. Heatmaps of selected object traffic, people, vehicles, etc.

**Event Schedules** : Arm/Disarm, day/night schedules set on calendar and weekly time table.

**Standard Automatic Detections** : Camera Tampering, Smoke and Fire, Day/Night, Camera Video Loss, Video Quality Loss, Low Frame Rate, Ambient Light Change.

**Event Linking and Triggers**: Generic email and HTTP triggers. VMS specific action and PTZ triggers.

**Camera Event Setting Templates**: Configuration templates to set-up multiple cameras at once.

**Hot Swappable Settings and Event Rules**: Real-time tuning of all camera detection and tracking settings and analytics rules while the system is running.

**Monitoring View Options**: Support for multiple grid options and floor plans.

**Video / Alarm Management Systems**: exacqVision, Milestone, Hikvision, Cisco, Immix Cloud-SureView.

**Architecture**: Scalable, distributed, multiple clients to remotely administer/monitor cameras, events, alarms.

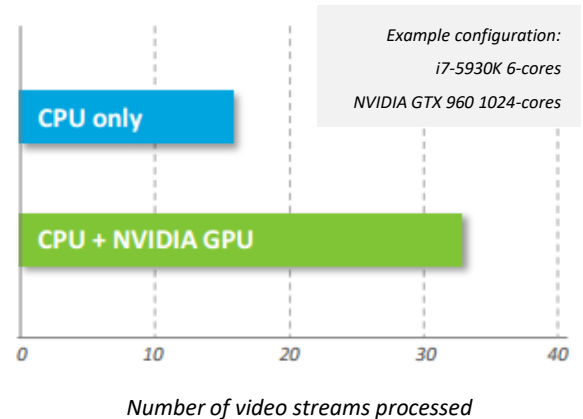
**Failover**: Option to configure a backup server to take over in case of processing server failure.

**User Management**: Support for user groups with different privileges, event acknowledgement options.

**Back-up/Restore**: Database back-up option to restore system, cameras, event settings, and triggers.

**Operating Systems**: Windows, Windows Server, Linux (check for versions and distributions).

**GPU Accelerated Processing**: Full support for NVIDIA compatible graphics cards for optimally accelerated video analytics doubling the performance capacity.



**Archived Video Post-Processing**: 20x Faster than real time, automatic sequential processing of video files.

**Supported Video**: Sensors: Color, Black & White, Thermal, Infrared, Wide Angle

*Resolutions*: CIF(320x240) to HD (1280x720)

*Min Frame Rate*: 8 fps

*Formats*: H.264, MPEG-4, MPEG-2, Motion JPEG, Direct Show Capture Cards

*PTZ Controls* for compatible cameras; analytics processing pauses while camera in motion

**Video File Input Formats**: ASF, AVI, MP4, MPG, WMV

**Network Protocols**: DNS, HTTP, ONVIF, RTSP, RTP, SMTP, TCP/IP, UDP, ZeroConf

**OEM Options**: White labeling of all intuVision VA applications and full featured C-based SDK available in Windows and Linux.

