SecurOS™ FACE MASK DETECTION

SecurOS™ Face Mask Detection is an intelligent video analytics module for the SecurOS™ Video Management Platform, that detects the presence/absence of a protective mask on a person's face. The analytics module uses advanced Neural Network algorithms to detect a person's face in the scene, and then check if they are wearing a face mask. If the module detects the absence of a mask, the system will generate an alarm (visual, audio, email) to notify the security personnel, and also save all the data in a database for future reports and analysis.

Protective face masks have become a new adopted everyday wear, and government entities worldwide are vigilant in making sure that masks are being worn throughout the day to prevent the spread of germs and bacteria. Also, business owners are enforcing their employees and visitors to wear masks to comply with the new labor safety guidelines. The SecurOS Face Mask Detection module helps enforce safety measures effectively in business centers, airports, subways, hospitals, and public areas, using new or existing cameras.

Intelligent Security Systems (ISS) is the industry leader in enterprise video management, and native video analytics (face recognition, license plate recognition, behavioral analytics, and much more). The SecurOS Face Mask Detection module can be optionally bundled with the SecurOS™ FaceX – face recognition module, to identify persons who are NOT wearing a mask.

Applications

- Business centers
- Retail applications
- Hospitals / medical centers
- Entrances of airports, subways, railway stations
- Sport venues
- Entertainment and hospitality industry

SECUROS PREMIUM

SECUROS ENTERPRISE

Compatible with ISS SecurOS Premium and Enterprise

ISS

INTELLIGENT VIDEO. DEFINED.

Key Features

- **Camera Agnostic** – SecurOS Face Mask Detection can be used with any new or existing camera. All major camera vendors are supported.
- **Convolutional Neural Network Based Algorithms** – High accuracy in a wide range of external conditions (steep camera angles, changing and insufficient illumination, varying camera resolutions). The video server CPU performs all neural network processes without the need of special GPU cards.
- **Real-time Detections** - Automatically detect presence/absence of masks in real-time and display the results in a dedicated user interface.
- **Built-in Automation Tools** – Alerts such as screen pop-up messages, audio, and email/SMS messages can be configured to notify the security personal of individuals not wearing masks.
- **Event to Video Evidence Linking** – All detections are linked to corresponding video clips and can easily be played back from the user interface.
- **Easy Implementation** – The analytics module can be easily added to any existing system and the user interface is simple to use.
- **VMS Friendly** – The analytics module can run on the SecurOS VMS platform, or can be installed side-by-side with other existing VMS platforms.
- **API/SDK Support** – Complete API/SDK toolkit to integrate with 3rd party systems to provide business process support.
- **Facial Recognition Add-on** – SecurOS FaceX can be bundled with the Face Mask Detection module to help recognize employees NOT wearing a mask and restrict access.

Specifications

Camera	IP, FullHD (1920x1080) resolution is recommended
Frames per second: for checkpoints (people slow down or stop) for areas with continuous people movement	 12 25
Lens focal length: for recognition at 5 feet (1.5 meter) distance for recognition at longer distances	 2.9 – 8mm 5 – 50mm
Optimal camera position	one which provides frontal view of face
Resolution quality requirements: recommended distance between eyes minimum distance between eyes	 60 pixels 40 pixels
Image quality requirements	a face should be clear (not blurred) without any digital alterations. The face should not be too dark or too light.
Tilt and rotation angle of camera with respect to the detected face: recommended maximum allowed	 up to 15° vertical and horizontal ≤ 30° horizontal, ≤ 20° vertical

Ordering Information

IF-MSK	SecurOS Face Mask Detection (per camera) *Module for detecting presence/absence of Protective Face Masks.*
SOS-GBTW-P1	SecurOS "Get Back to Work" Safety Package 1 (per camera) *Package includes (A) SecurOS Face Mask Detection + (B) SecurOS FaceX (Face Recognition module).*
SOS-GBTW-P3	SecurOS "Get Back to Work" Safety Package 3 (per camera) *Package includes (A) SecurOS Face Mask Detection module + (B) SecurOS Thermal Camera Integration module + (C) SecurOS FaceX (Face Recognition module).*

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