

# AI-based Masks Recognition

IN XEOMA SURVEILLANCE



[BRIEF DESCRIPTION](#)

[MORE FEATURES](#)

[FIELDS OF APPLICATION](#)

# Mask Detector

## COMPLYING WITH ANTI-PANDEMIC REGULATIONS

### WHY IT IS IMPORTANT TO WEAR A MASK

COVID-19 pandemic, started in late 2019, is prognosed to stay a threat during most of year 2020.

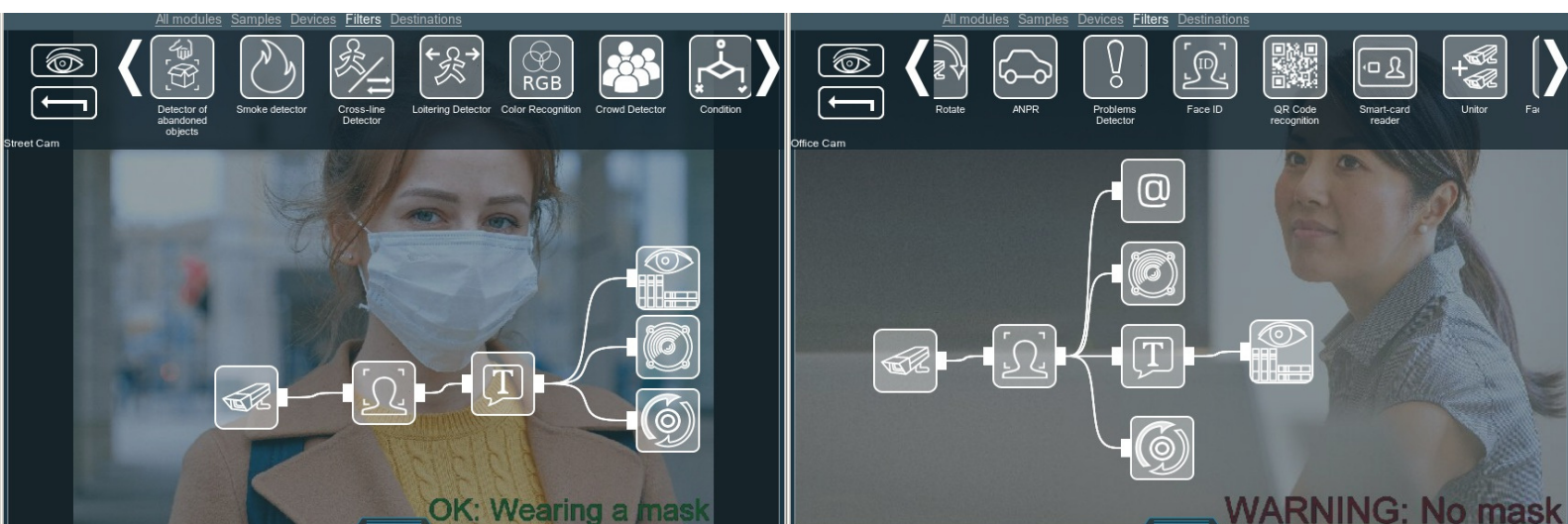
Wearing a facial mask in public places has proved to be an efficient way to withstand the virus spreading. This simple safety measure is made an official safety regulation by many governments during the COVID-19 pandemic. Failing to comply often results in violating people and organizations being **fin**ed.

### HOW TO COMPLY WITH SAFETY REGULATIONS EASILY

Tracking visitors and citizens for having medical masks on 24/7 can be a hard task for human personnel – they can get biased, tired and easily distracted.

The **Mask Detector** feature of **Xeoma Video Surveillance Software** (part of the Face Recognition's module) is fully automated, tireless and not prone to catching the virus itself.

It monitors the real-time camera image for people wearing or not wearing facial masks, and upon seeing the 'offender' can activate various reactions – from email or SMS notifications to dispatching an alarm to security officers.





# How Does Mask Detection Work

## ARTIFICIAL INTELLIGENCE IN SIMPLE WORDS

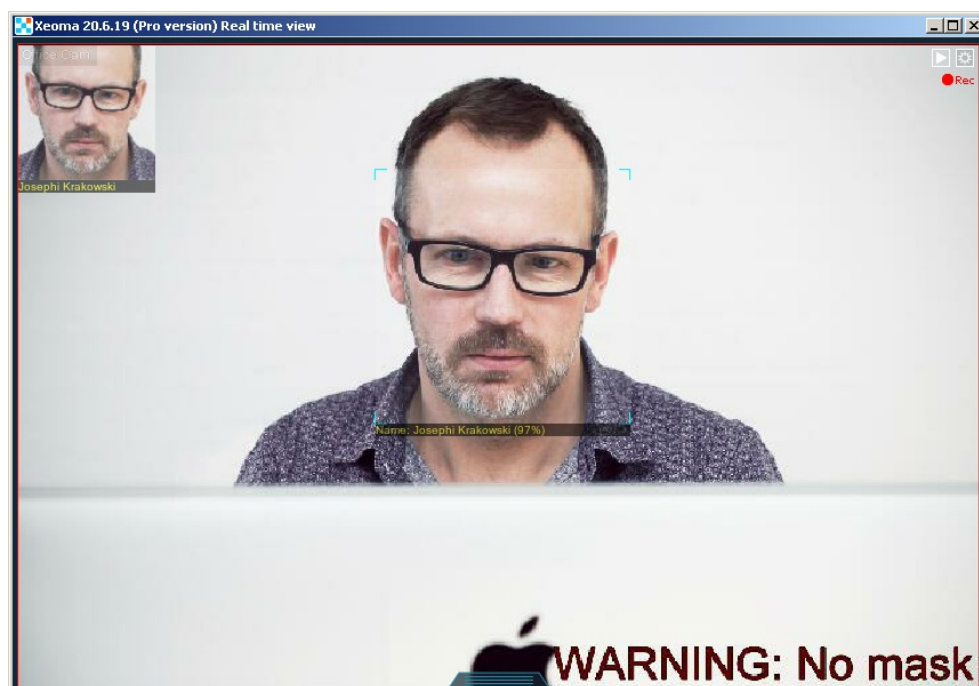
### AI AND NEURAL NETWORKS

Intellectual feature «Mask Detector» is a part of Xeoma's Face Recognition module. Based on the embedded knowledge patterns, it is capable of detecting people in camera's field of view, finding their faces and checking if they have an object 'medical mask' on, or not. With the Mask Detector you can:

- + **Save** video evidence for cases of both absence and presence of facial masks.
- + **Identify** the violator with the face recognition mechanisms, or even connect the Mask Detector system to work with an **automated fining** system.
- + Or use Xeoma's various reactions to **notify** a store owner or other authorized personnel of the threat.

### WHY XEOMA'S MASK DETECTION IS BETTER?

- High accuracy level and quick reaction
- No special equipment required. Just your regular camera.
- Wide choice of supported cameras and operating systems (Windows, Linux, MacOS, Linux ARM)
- Affordable prices
- Ease of use. Very flexible and simple settings
- Saves bandwidth: All done on your machine, no need to connect to any cloud servers.



# Pricing

AFFORDABLE MASK DETECTION IN XEOMA

**MASK DETECTOR OPTION\***  
FOR 1 CAMERA

**\$149.95 USD**

**XEOMA STANDARD LICENSE\***  
FOR 1 CAMERA

**\$24.95 USD**

**JUST \$174.9 USD TO START DETECTING PEOPLE IN MASKS RIGHT AWAY!**

**\*PERPETUAL LICENSE**





# Fields of application

SHOPS, HOSPITALS, BEAUTY



Visitors of malls, medical centers and beauty parlors are to wear a protective mask as a counter-virus measure.

Xeoma's Mask Detector will help keep statistics on amount of an establishment's visitors in masks – or detect and react if someone has taken their medical mask off *after* they have entered, and are threatening health of other customers.

[VISIT WWW.XEOMA.COM TO LEARN MORE](http://WWW.XEOMA.COM)

# Fields of application

## AIRPORT, STREET, STATION



Airports and stations are places of people crowds of high density. That means greater necessity for wearing a facial mask – and yet even greater challenge to keep an eye on everybody from the ceaseless flow of people.

Xeoma's machine vision in Mask Detector will be a tireless 24/7 watchdog for people's safety.

FOR MORE INFORMATION PLEASE VISIT  
[WWW.XEOMA.COM](http://WWW.XEOMA.COM)



# Fields of application

## PUBLIC TRANSPORTATION



Keeping distance of 1.5–2 meters, recommended by the WHO, is not always possible in public transportation. Wearing a medical mask is an absolute must in places like buses, trains, trams where strangers are close to each other for some time.

Mask Detector can detect people who are not wearing a mask without distracting the driver.

FOR MORE INFORMATION PLEASE VISIT  
[WWW.XEOMA.COM](http://WWW.XEOMA.COM)

# More AI-based features in Xeoma

HELPFUL IN FIGHT AGAINST COVID-19

## FEVER DETECTION

Use Xeoma's **Color Recognition** module for automated 24/7 detection of a certain level of temperature (e.g. fever) represented by a certain color.

The module can store reports on detected events, send live notifications, and do customized reactions.

## VISITORS COUNTER

During the virus outbreak, safety regulations often oblige organizations to limit amount of people that can stay in a store, public place, etc. Xeoma's **visitors counter** can count how many people have entered or left an area or a place.

## STAY TIME

Not only amount of visitors is often limited by safety regulations, but there are also limitations in customers' allowed stay time in a store, mall, shops, etc.

Xeoma's Face Recognition module has mechanisms to track a visitors' stay time and trigger reactions if the allowed time is exceeded.

## FACE RECOGNITION

This module is meant for detection of human faces in the cameras' field of view. It can be used to detect excessive presence of people where they are not supposed to be or, in reverse, detect if there are insufficient staff.





# More AI-based features in Xeoma

OBJECT RECOGNITION, EMOTIONS RECOGNITION, DEMOGRAPHICS AND MORE

## OBJECT RECOGNITION

The "Object recognizer" module can monitor the camera's field of view for objects of certain type: people, birds (land or sea birds), animal, vehicles (cars, trucks, motorcycles, bicycles), UAV (drones), aircrafts, boats and naval vessels, trains, etc. More types can be added at request.

## DEMOGRAPHICS (AGE, GENDER) AND EMOTIONS

"Face Detector (Emotions)" can recognize 7 basic human face expressions: happiness, sadness, disgust, surprise, neutral expression, fear and anger.

"Age Recognizer" uses neural networking technologies to effectively, quickly and easily display the most possible age of a person or persons in the camera's field of view.

"Gender Recognizer" is an AI-based module in Xeoma that can detect a person's gender in real-time.

## CROWD DETECTOR

This module can count people's heads and detect if the number is bigger or smaller than needed (detect people crowding or queue), and cause a pre-set reaction. It can also be used for passengers count in a public transportation enclosure like subway carriage, bus, tram, train, etc.



# More AI-based features in Xeoma

ALSO AVAILABLE

VEHICLE LICENSE PLATE  
RECOGNITION

FACE ID - DUAL  
AUTHENTICATION WITH  
QR CODE OR SMART CARD

SOUND RECOGNITION

SAFETY GEAR DETECTOR

HEAT MAP

DETECTOR OF  
ABANDONED OR MISSING  
OBJECTS

SMOKE DETECTOR

SABOTAGE DETECTOR

INTRUSION DETECTOR

PRIVACY MASKING

LOITERING DETECTOR

FREE ANDROID AND  
IPHONE /IPAD APPS

+ ANY FEATURES YOU  
REQUEST







See more at [www.xeoma.com](http://www.xeoma.com)

[SUPPORT@FELENASOFT.COM](mailto:SUPPORT@FELENASOFT.COM)

