

# Protector

## Face Recognition System

### Looking for a suspect, or a missing person?

Prevent a terrorist attack, apprehend a suspect, raise the alarm against a habitual offender, or find a missing person. **Protector** is a state-of-the-art person search system that can detect individuals in a live/offline video, match them to a watch list, and alert the user, in case of hits. Its ability to work with low resolution faces, and/or verbally described appearance is unique. The system ensures that people not on the watchlist are invisible in compliance with the privacy laws.





## Protector technology

**Protector** is an Artificial Intelligence (AI) powered face recognition and person re-identification system that can detect people in a live/offline video feed and match them to a watch list gallery.

Its deep neural network is optimised for realistic scenarios to cope with changes in lighting and a wide range of face poses.

By learning from a large dataset it is possible for the system to achieve matching across a wide range of resolution images and videos.

The system alerts the user in case of hits. It delivers high performance across different face types, including age, gender and ethnicity.

Faces not in the watch list gallery are ignored, using configurable privacy controls ensuring compliance with GDPR.

Unlike other systems **Protector** has superior low resolution face recognition capability, which can help to identify candidate identities from face images of sizes as low as 20 x 20 pixels.

Supported by a comprehensive API, the system can be deployed on a range of platforms, from a laptop to central server architectures to facilitate multiple feed processing.

The efficient design makes it possible to deploy **Protector** on a camera by attaching a low powered mobile GPU device.

# Innovative Artificial Intelligence Solutions



Sensus Futuris is a University of Surrey spinout, with more than 100 years of combined research experience in the field of Computer vision, Machine Learning and Artificial Intelligence.



## Our products and services

Please check our other exciting products including:

- AI powered video analytics tool called **Curator**
- AI powered person search engine and image database system called **Capture**

## Key areas

Our products are targeted for following areas:

- Enhanced Surveillance
- Person Appearance Search
- Face Recognition
- Object Tracking
- Age Estimation

## Contact Us

### Sensus Futuris

The Surrey Technology Centre,  
40 Occam Road,  
The Surrey Research Park  
Guildford, Surrey, GU2 7YG

[www.sensusfuturis.com](http://www.sensusfuturis.com)

info@sensusfuturis.com  
01483 685095