VIX VIZION

Intelligent Video Analytics and Facial Recognition

Product Overview

Vix Vizion's Imagus Intelligent Video Analytics and Facial Recognition product delivers fast accurate face detection, matching, and recognition using advanced deep learning algorithms. Imagus is effective with high or low densities of people in frame, even with poorly lit, poor quality, angled or obstructed views. The Imagus product has numerous use cases across many industry sectors.

Imagus is easy to deploy and operate with intuitive User Interfaces for operation and management. Imagus can be deployed stand alone or integrated with your Video Management System either as a local implementation or integrated across multiple sites with a central enrolment database using our Online Self Enrolment Centralised Register solution.

Markets and Use Cases

Our Imagus Product has been applied in many markets to support numerous safety and security use cases. Please contact Viz Vizion or visit our website for more information. Some of the markets where Imagus has been successfully installed include:

- Responsible Gaming (Pubs and Clubs)
- Loss Prevention and Safety (Retail)
- Safety and Security (Critical Infrastructure and Mining)
- Patient Care and safety (Aged Care and Health)

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Imagus   EOS

Key Features

FACE RECOGNITION

- Easily enrol faces for recognition from existing databases, from video footage or on the fly.
- Enrol faces for recognition of person of interest or repeat offenders.
- Known and Unknown associate identification.
- Privacy controls and facial blurring.
- Algorithms trained against multiple demographics, mask/glasses/hats, Lighting variations, motion blur and large pose changes (+/- 90 deg yaw, +15/-30 deg pitch, +/-30 roll).

FACE DETECTION

- Monitor video streams either stand alone or integrated with your VMS.
- Deeply integrated seamless plug-in options for several Video Management and Access Control Systems which are designed to make the implementation and management of Imagus capabilities seamless and easy to use.
- Market leading face detection accurately detects faces in video streams in real time in crowded or 1-to-1 scenarios and uncooperative environments.

FACE VERIFICATION

- Fast and Accurate as benchmarked by US National Institute of Standards and Technology (NIST)
- Real time alerts for staff and management via screen, email and mobile phone SMS.
- Identity verification for staff/customer/passenger through enrolment and onboarding feature.
- 2nd level verification for Access Control integration.
- Enhanced security use cases to support high security environments.

Benefits

Imagus is a proven video analytics and facial recognition product installed at hundreds of sites across Australia and New Zealand. It is fast and accurate and uses small memory resources. It is easy to use and has been built with Privacy Principles guidelines in mind. Through the use of Imagus, customers can:

- Enhance safety of customers and employees and protect property through real time alerts if persons of interest or repeat offender return to a location.
- Add 2nd level verification for access control and credentials management.
- Help verify who is onsite through 'proof of presence' safety roll calls.
- Protect patients at risk in Aged Care or health facilities.
- Help ensure compliance with Responsible Gaming Initiatives

How is privacy addressed

Imagus has been designed to operate with Privacy Principles Guidelines in mind. When a face is detected on a camera using our Imagus software, we create a metadata face file ("Metadata") for that particular face which describes the characteristics of the face. This Metadata is then used by the system to match against faces of people of interest who have been enrolled by the operator in the enrolled faces database. The Metadata is a data file, not an image file.

The Imagus software is designed to access the VMS video footage for investigation purposes, but the storage of images is generally happening in the existing VMS, not the FR system.

Face Metadata storage is a configurable part of our software which is managed by the customer and set depending on their needs, Metadata can be stored for days or minutes or immediately deleted.

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