

Vision-Box Facial Recognition Engine

The perfect combination of accuracy and speed

Vision-Box Facial Recognition (FR) is an engine based on state-of-the-art deep learning technologies and computer vision algorithms for face processing and matching. It includes the full-face processing pipeline: detection, landmark extraction, image and face quality estimation, segmentation and templization.

Vision-Box has been at the forefront of the biometric revolution at the travel journey. From the early stages of the development of Border Automated eGates with face recognition to the latest Seamless end-to-end automation of the travel journey with face, we've ensured the delivery of exceptional customer experiences across airlines, airports and border control. Vision-Box Facial Recognition Engine is a core element of that biometric journey.



Highly accurate
1:1 Verification



Proved solution at multiple
use-cases from Border to
Airports to Airlines



AI-Powered Engine



Fast and secure
1:N Identification



Optimised for
multiple platforms



Fully integrated into Vision-Box
Seamless Journey Platform®



Key features

- ICAO/ISO 19794-5 compliance check
- High-accuracy biometric matching, supporting verification and identification
- Capable of performing accurate and fast Verification and Identification:
- Supports multiple internal galleries
- Low computational requirements
- Optimised to run on different platforms and technologies
- Delivered as part of Vision-Box Seamless Journey Platform®

Identity Management plays the central role in converting complex traveller digital data processing, into a truly contactless seamless travel experience.

Vision-Box's algorithm is an integral part of that ecosystem, offering the perfect combination of accuracy and speed, permitting optimised face matching. When working in tandem with Vision-Box hardware, it provides the most superior biometric capture and matching performances.



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