

FaceVACS®-PortraitAcquisition

Acquiring and assessing digital portraits for Photo - ID documents

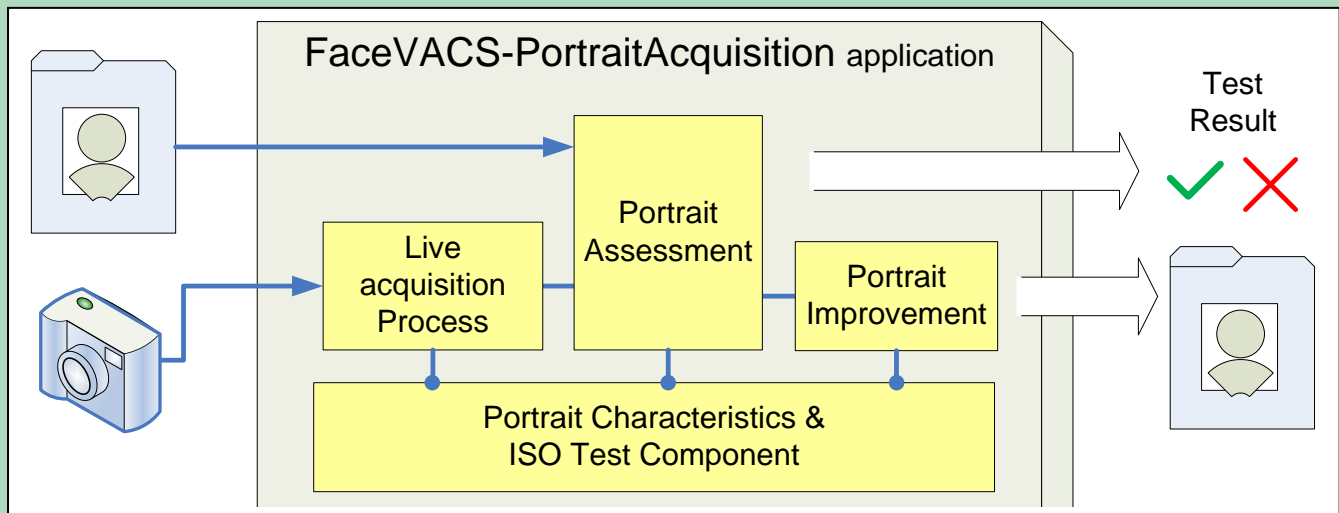
FaceVACS-PortraitAcquisition streamlines the production of high quality portraits for photo-ID documents which are at the same time suitable for face recognition. The product features a graphical user interface to visually supervise and operate the acquisition process as well as to assess key technical characteristics such as frontal pose, uniform lighting, glasses and open eyes. This product can be specifically configured to assess if an image complies with the ISO 19794-5 standard fullfrontal image type mandatory requirements and best practice recommendations. An integrators's kit also allows an easy integration into existing document issuing processes and applications.

FaceVACS-PortraitAcquisition simplifies the process of taking pictures for ID document purposes while delivering high quality facial images, applicable for face recognition. ID documents issuing systems cover the whole range of passports, visas, national ID cards, access cards, drivers' licenses, and more. Face recognition applications are most often access control applications, based on those Photo-ID documents to grant access to a country (border control), an event (e.g. sports event, concert) or a company or public facility.



Headquartered in Dresden, Germany and with offices in Miami, FL; Rio de Janeiro, Brazil; and Hong Kong, China, Cognitec develops markets and deploys the well-established and market leading FaceVACS® face recognition software to global customers and government agencies. Cognitec's software experts have been developing face recognition technology since 1995. In various independent evaluation tests including the Face Recognition Vendor Tests 2002 and 2006, FaceVACS® has proven to be the leading technology available on the market.

FaceVACS-PortraitAcquisition Application



FaceVACS-PortraitAcquisition Application



International travel documents like ePassports, eVisas as well as national identity documents and drivers' licenses represent essential prerequisites for national security. Photo – ID documents are also used by private enterprises, health insurance organisations, and more. Facial image quality requirements have been standardized by international organisations (ICAO/ISO) and are now being introduced by governments and private organisations around the world.

Image capture devices and quality assessment software are already being used by

- Passport offices
- Drivers' license agencies
- Visa issuance agencies
- Health card issuance organisations

FaceVACS-PortraitAcquisition Technology

- **Portrait image assessment technology uses advanced pattern recognition technology to determine semantical characteristics of the portrait images**

Geometric measurements:

- Eye positions, ear positions, chin, crown positions

Scene measurements:

- Homogeneous illumination of face

- Homogeneous background
- Exposure
- Sharpness

Behavior measurements:

- Frontal pose
- Eyes open
- Frontal gaze
- Mouth open
- Glasses
- Tinted glasses

Measurements are input for ISO tests and similar to ISO tests:

- Tests can be parametrized